



Electrical & Automation

# POWERING A NON-STOP INDIA



Maximum Retail Prices  
For Electrical Standard Products  
*Effective from 01-10-2025*



# FROM THE COO'S DESK.



**Dear Partner,**

As the festive season lights up homes and hearts across India, we extend our warmest wishes to you and your loved ones.

This time also marks an important milestone for us at **Lauritz Knudsen Electrical & Automation** - a moment to reflect, renew, and reaffirm our commitment to you.

Your continued trust and partnership have been the cornerstone of our journey. Building on a legacy of over 70 years, and following our refreshed identity last year, we remain focused on delivering **innovative, reliable, and high-quality products** that power progress.

As part of this journey, we are pleased to **share an updated price list**. This revision reflects our ongoing commitment to **transparency, quality, and excellence**, ensuring you continue to receive the best value and service.

This update also coincides with the launch of our **most extensive portfolio yet** - designed to support the evolving technology backbone of the nation.

At Lauritz Knudsen, our philosophy remains simple yet powerful: **We listen. We partner. We innovate.**

These words guide our actions and shape the way we grow - together.

We look forward to continuing our collaboration and powering up homes, industries, farms, infrastructure, businesses, and lives - with you by our side.

Wishing you a joyful festive season and continued success.

A handwritten signature in black ink, appearing to read "Naresh Kumar".

Warm regards,  
Naresh Kumar  
COO & Sr. VP, Electrical Standard Products  
Lauritz Knudsen Electrical & Automation

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Note:

[Black colour : HSN code]

Current GST 18%, subject to changes as per Govt. notification



**Please contact the nearest branch office for  
Prices of the following products :**

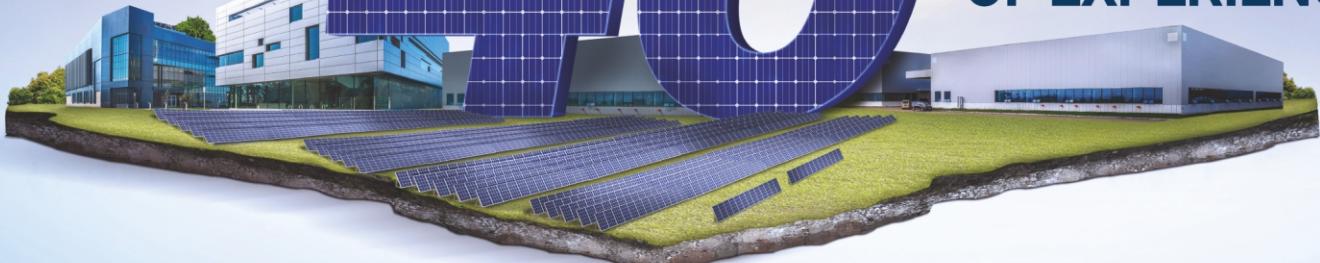
- › Final Distribution Products - 6kA MCBs
- › Wires, Cables and Flat Cables
- › Busbar Trunking Systems
- › Rotary Switches
- › Modular Remote Control Units & Indicating Units
- › Timing Devices & Supply Monitors
- › Cable Ducts & Load Break Switches
- › Modular Switches and Sockets
- › Medium Voltage AIS upto 36kV
- › Agricultural Electrical Products

**Note:** Product photographs shown, are for representative purposes only.



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# Efficient DC Solutions up to 1500V DC

## Applications:

- › Battery Energy Storage System
- › Central Inverter Application
- › EV System

## MCCB

- › Range: 100A to 800A
- › DC Operational Voltages of 1500V, 1000V, 750V, 500V & 250V
- › Ambient Temperature Compensated DC Releases
- › Internal Accessory Compatibility for all DC Applications
- › Service Breaking Capacity Ics upto 50kA



## ACB - SD



- › Disconnector versions up to 6300A\*
- › DC Voltage ratings 1500V#, 1000V, 750V, 500V & 250V
- › Service Breaking Capacity Ics upto 100kA

\*6300A in two pole series connection for voltage up to 500V DC

#Upcoming version

## SWITCH DISCONNECTOR



- › Range: 125A to 630A
- › Voltage: 1000/1500V DC

## MCB



- › Conforms to IEC 60947-2
- › Current rating upto 63A
- › Available in SP/DP and FP versions
- › Voltage rating available from 130V DC to 1000V DC



# SMARTSHOP

—o The Switchgear Experts' Platformo—



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## Contactors

### Power Contactors

#### 1 Pole

› MR

#### 2 Pole

› MNX

› MU-2P

#### 3 Pole

› MO

› MNX

› MI

› MX Power

› ML

› MDX (DC Control/Electronic coil Control)

#### 4 Pole

› MCX

### Control Relays (Auxiliary Contactors)

› MX0 (Mini) AC/DC

› MO0 AC/DC

### Capacitor Duty Contactors

› MO C

## MI Contactors 6-150A, AC-3 Rating

**Optimum solution  
for your applications**



Understanding customer requirements, we make sure that our range of contactors caters to their evolving needs. Considering the changing expectations of customers and a need for an optimum and reliable solution, we introduce MI range of contactors for applications upto 150 A AC3 rating.

#### Features

- › Finger proof terminals upto 40A
- › Can be used with existing MN Range of thermal overload relays
- › Top mounting add-on blocks possible upto 80A
- › Spares available for entire range
- › Optimised for AC1/AC3 applications

#### Applications

- › Street lighting
- › VFD, Soft Starters applications
- › UPS
- › Solar and Wind inverters
- › Resistive loads
- › Battery charging
- › Motor Starters

\* For accessories and more details please contact nearest branch.

Type	Cat. No.	M.R.P. (₹) Per Unit
MI 6 (With 1 NO aux contact)	CS90401	
MI 9 (With 1 NO aux contact)	CS90402	
MI 12 (With 1 NO aux contact)	CS90403	
MI 18 (With 1 NO aux contact)	CS90404	
MI 22 (With 1 NO aux contact)	CS90405	
MI 25	CS90406	
MI 32	CS90407	
MI 40	CS90408	
MI 45	CS90704	
MI 50	CS90705	
MI 70	CS90706	
MI 80	CS90707	
MI 95	CS90724	
MI 120	CS90725	
MI 150	CS90726	

Price  
on  
Request\*

#### Notes:

1) Standard coil voltage: 110V, 220V, 240V and 415V, 50Hz

2) For ordering Suffix, please refer page No. 10



## 3 Pole Power Contactors [8536]

### 3 Pole Power Contactors - Type MNX

#### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A – 650A AC-3
- Click fit type construction up to 40A
- Coil on top design in 95A and above
- Spares available for entire range



MNX 22



MNX 40



MNX 80



MNX 140



MNX 250



MNX 650

### 3 Pole Power Contactors - Type MO

#### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A - 300A AC-3
- Range 140A-300A available with conventional / universal AC/DC electronic coil version
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- Standardized accessories for 9A-110A and 140A-300A range
- Compact dimensions saving panel space
- Suitable for Lug as well as Lugless termination
- RoHS** compliant



MO 18



MO 45



MO 70



MO 110



MO 140



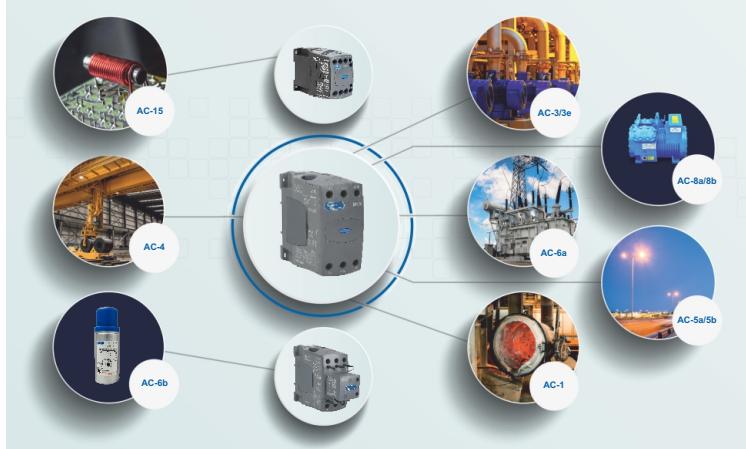
MO 250

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9	1 NO	CS94106	1090	20
				1 NC	CS94107	1090	20
	12	30	MNX 12	1 NO	CS94108	1260	20
				1 NC	CS94109	1260	20
	18	30	MNX 18	1 NO	CS94100	1500	20
				1 NC	CS94101	1500	20
Fr 2	22	32	MNX 22	1 NO	CS94980	1660	20
				1 NC	CS94981	1660	20
	25	45	MNX 25	#	CS94110	1720	20
Fr 3	32	55	MNX 32	#	CS94111	3690	20
	40	55	MNX 40	#	CS94190	5510	20
Fr 4	50	85	MNX 50	#	CS97075	8020	1
	70	100	MNX 70	#	CS97076	11300	1
Fr 5	80	100	MNX 80	#	CS97077	13980	1
	95	160	MNX 95	2 NO + 2 NC	CS94136	21360	1
Fr 4*	110	160	MNX 110	2 NO + 2 NC	CS94137	25950	1
	140	160	MNX 140	2 NO + 2 NC	CS94138	33100	1
Fr 5*	185	250	MNX 185	2 NO + 2 NC	CS94139	39360	1
	225	300	MNX 225	2 NO + 2 NC	CS94140	43320	1
Fr 6	250	300	MNX 250	2 NO + 2 NC	CS94141	48830	1
	300	400	MNX 300	2 NO + 2 NC	CS90280	58980	1
Fr 5*	400	425	MNX 400	2 NO + 2 NC	CS94144	84390	1
	550	650	MNX 550	2 NO + 2 NC	CS94145	123940	1
Fr 6	650	800	MNX 650	2 NO + 2 NC	CS96327	185420	1

#### Notes:

- # Add-on blocks can be ordered separately
  - For ordering MNX/MO add-on aux contact blocks, please refer page No.8
  - For ordering MNX/MO surge suppressor and MNX/MO MIL kit, please refer page No.9
  - For ordering Suffix, please refer page No.10
  - Standard coil voltage: MNX/MO - 110V, 220V, 240V and 415V, 50Hz.
- If using 16 sq mm cable for MO 45 use of spreader link kit is mandatory  
For ordering spreader link kit for MO 45, Please refer page No.9  
\* Universal AC/DC electronic coil version

#### Switching solution for all Utilization Categories from MO platform



## 2 Pole Power Contactors [8536]

### 2 Pole Power Contactors - Type MNX

#### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A - 650A AC-3
- DC ratings available
- Click fit type construction up to 40A
- Coil on top design in 95A and above
- Common spares and accessories as MNX 3P

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9-2P	1 NO	CS90232	925	10
	12	30	MNX 12-2P	1 NO	CS90234	1070	10
	18	30	MNX 18-2P	1 NO	CS90236	1280	10
	22	32	MNX 22-2P	1 NO	CS90238	1410	10
Fr 2	25	45	MNX 25-2P	#	CS90240	1460	10
	32	55	MNX 32-2P	#	CS90241	3140	10
	40	55	MNX 40-2P	#	CS90242	4680	10
Fr 3	50	85	MNX 50-2P	#	CS94061	6820	1
	70	100	MNX 70-2P	#	CS94062	9610	1
	80	100	MNX 80-2P	#	CS94063	11900	1
Fr 4	95	160	MNX 95-2P	#	CS94064	18200	1
	110	160	MNX 110-2P	#	CS94065	22100	1
	140	160	MNX 140-2P	#	CS94066	28100	1
Fr 5	185	250	MNX 185-2P	2 NO + 2 NC	CS94978	33500	1
	225	300	MNX 225-2P	2 NO + 2 NC	CS94979	36800	1
	250	300	MNX 250-2P	2 NO + 2 NC	CS90301	41500	1
Fr 6	300	400	MNX 300-2P	2 NO + 2 NC	CS90346	50100	1
	400	425	MNX 400-2P	2 NO + 2 NC	CS94069	71700	1
	550	650	MNX 550-2P	2 NO + 2 NC	CS90243	105300	1
	650	800	MNX 650-2P	2 NO + 2 NC	CS90578	157600	1

## 3 Pole Power Contactors [8536]

### 3 Pole Power Contactors - Type MX Mini

#### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- AC/DC Contactor in 45mm width
- Base as well as DIN Rail mounting facility
- Built-in Surge Suppressor in MX DC



MX 06

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>For AC control (Std. Coil Voltage - 24, 110, 240, 415V, 50Hz)</b>						
6A	20A	MX 06	1 NO	CS94012	1340	10
6A	20A	MX 06	1 NC	CS94013	1340	10
9A	20A	MX 09	1 NO	CS94014	1380	10
9A	20A	MX 09	1 NC	CS94015	1380	10
12A	20A	MX 12	1 NO	CS94016	1520	10
12A	20A	MX 12	1 NC	CS94017	1520	10
<b>For DC control (Std. Coil Voltage - 24, 110, 220V)</b>						
6A	20A	MX 06	1 NO	CS94021	2080	10
6A	20A	MX 06	1 NC	CS94022	2080	10
9A	20A	MX 09	1 NO	CS94023	2200	10
9A	20A	MX 09	1 NC	CS94024	2200	10
12A	20A	MX 12	1 NO	CS94025	2470	10
12A	20A	MX 12	1 NC	CS94026	2470	10

## 3 Pole Power Contactors [8536]

### 3 Pole Power Contactors - Type MDX

#### Features

- Conforms to IS/IEC 60947-4-1 & IEC 60947-4-1
- Range from 9 - 115A AC-3
- Built in surge suppressor for MDX 9 - 115



Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1 (DC Control Coil)	9	25	MDX 9	1 NO	CS96564	2170	1
	12	28	MDX 12	1 NO	CS96565	2550	1
	18	32	MDX 18	1 NO	CS96566	3070	1
	25	32	MDX 25	1 NO	CS96567	4040	1
Fr 2 (DC Control Coil)	32	56	MDX 32	#	CS96552	7800	1
	38	56	MDX 38	#	CS96553	10970	1
Fr 3 (Electronic Coil-AC/DC)	50	90	MDX 50	#	CS91584	15930	1
	65	110	MDX 65	#	CS91585	18040	1
	80	125	MDX 80	#	CS91586	22370	1
	95	125	MDX 95	#	CS91857	26800	1
	115	125	MDX 115	#	CS91858	29860	1

\* (Frame 1&2) - Available till stock last

#### Notes:

- # Add-on blocks can be ordered separately.
- For ordering MDX/MNX add-on aux contact blocks, please refer page No.8
- For ordering MNX surge suppressor and MIL kit, please refer page No.9
- For ordering Suffix, please refer page No.10
- Standard coil voltage: MDX - 24V, 48V, 115V and 220V DC
- Standard coil voltage: MNX 2P - 240V, 50Hz
- For DC power ratings refer catalogue
- For MDX side add-on and top add-on can not be mounted together

## 3 Pole Power Contactors [8536]

### 3 Pole Power Contactors - Type MX Mini

#### Features

- Conforms to IS/IEC 60947-4-1 & IEC 60947-4-1
- Range from 25A- 300A AC-3
- Robust and suitable for hostile applications



Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	25	25	ML 1.5	2 NO + 2 NC	SS91851	5430	1
Fr 2	32	40	ML 2	2 NO + 2 NC	SS90701	10090	1
Fr 3	40	45	ML 3	2 NO + 2 NC	SS90721	14880	1
Fr 4	70	100	ML 4	2 NO + 2 NC	SS90910	24320	1
	110	125	ML 6	2 NO + 2 NC	SS90921	38480	1
	300	400	ML 12	2 NO + 2 NC	SS91010	87120	1

#### Notes:

- For ordering MX add-on aux contact blocks, please refer page No.8
- For ordering ML add-on aux contact blocks, please refer page No.9
- For ordering MX surge suppressor and MIL kit, please refer page No.9
- For Ordering Suffix, please refer page No.10
- Standard Coil Voltage : ML 1.5/2/3 - 110V, 240V and 440V, 50 Hz  
ML 4/6/12 - 110V, 240V and 415V, 50 Hz

## 4 Pole Power Contactors [8536]

### 4 Pole Power Contactors - Type MCX

#### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 18A - 900A
- Wide operating band up to 130A AC-1
- Power contacts configuration - 4 NO



MCX 22



MCX 34



MCX 47

Size	AC-1 Rating (A)	Type	Aux Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	18	MCX 01	#	CS97009	1400	10
	25	MCX 02	#	CS97010	1450	10
	32	MCX 03	#	CS97011	1570	10
	40	MCX 04	#	CS97012	2210	10
Fr 2	55	MCX 11	#	CS97013	2930	1
	63	MCX 12	#	CS97014	5850	1
	80	MCX 13	#	CS97015	8550	1
Fr 3	105	MCX 22	#	CS97017	12180	1
	130	MCX 23	#	CS97018	13780	1
Fr 4	160	MCX 32	2 NO + 2 NC	CS97020	23790	1
	200	MCX 33	2 NO + 2 NC	CS97021	26440	1
	255	MCX 34	2 NO + 2 NC	CS97022	32490	1
Fr 5	325	MCX 41	2 NO + 2 NC	CS97023	53840	1
	360	MCX 42	2 NO + 2 NC	CS97024	57680	1
	400	MCX 43	2 NO + 2 NC	CS97025	66950	1
	560	MCX 44	2 NO + 2 NC	CS97026	93250	1
	600	MCX 45	2 NO + 2 NC	CS97027	100320	1
	700	MCX 46	2 NO + 2 NC	CS97028	112580	1
	900	MCX 47	2 NO + 2 NC	CS94291	174240	1

### New! 2 NO + 2 NC Power Contactor - Type MCX

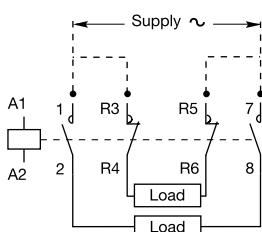
#### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 18A - 40A
- Power contacts configuration - 2 NO + 2 NC

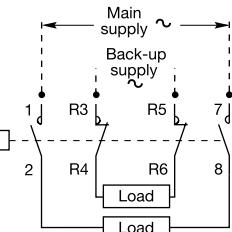
Size	AC-1 Rating (A)	Type	Power Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	18	MCX 01-22	2 NO + 2 NC	CS91107	1400	10
	25	MCX 02-22	2 NO + 2 NC	CS91108	1450	10
	32	MCX 03-22	2 NO + 2 NC	CS91109	1570	10
	40	MCX 04-22	2 NO + 2 NC	CS91110	2210	10

#### Block diagrams

Single supply and 2 separate loads



2 separate supplies and 2 separate loads



⚠ MCX 2NO + 2NC contactors are not suitable for a reversing starter or for controlling a single load from 2 separate supplies.

#### Notes for MCX:

- # Add-on blocks can be ordered separately.
- For ordering MCX add-on aux contact blocks, please refer page No.8
- For ordering MCX surge suppressor and MIL kit, please refer page No.9
- For Ordering Suffix, please refer page No.10
- Standard Coil Voltage: MCX - 220V, 240V and 415V 50Hz
- Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
- MCX 01-04 and MCX 11-13 available in 48V DC coil. Contact nearest branch for more details.

To avoid coil failure due to neutral floating, it is recommended to use 415V coil

## AST System Components [9032]

### Automatic Transfer Controllers (ATC)



AuXC-2000 Controller

For AuXC 2000/2100 programming videos and more details please scan the QR code or click here



Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 Controller	ATC20000000	33200	1
AuXC-2100 Controller** with Optional RS485	ATC21000000	66200	1
RS485 Module for AuXC-2100 Controller**	ETACONRS485	13200	1

Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

\*\*Note: RS485 expansion module needs to be ordered with AuXC-2100 for communication

## Control Relays (Auxiliary Contactors) [8536]

### Type MX0 AC



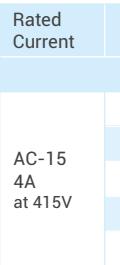
#### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Available with AC or DC control in same dimension
- Inbuilt Surge Suppressor in MX DC

MX0 22E

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz</b>				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94018	1590	10
	MX0 31E (3 NO + 1 NC)	CS94019	1590	10
	MX0 22E (2 NO + 2 NC)	CS94020	1590	10
	MX0 13E (1 NO + 3 NC)	CS94041	1590	10
	MX0 04E (4 NC)	CS94042	1590	10

### Type MX0 DC



Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>For DC control std. Coil Voltage - 24, 110, 220V</b>				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94027	1970	10
	MX0 31E (3 NO + 1 NC)	CS94028	1970	10
	MX0 22E (2 NO + 2 NC)	CS94029	1970	10
	MX0 13E (1 NO + 3 NC)	CS94043	1970	10
	MX0 04E (4 NC)	CS94044	1970	10

Notes: 1) For Ordering Suffix, please refer page No.10

2) 5 NC & above combinations are not recommended for MX0 DC Control Contactors

3) 1 NO + 3 NC, 4 NC add-on block combinations are not recommended for MX0 DC Control Contactors.



## Type MO0 AC



### Features

- Same add-on aux. contact block in MO0 as of MO power contactors
- Common coil for 50 & 60Hz application

**MO0 AC**

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz</b>				
AC-15 4A at 415V	MO0 40E (4NO)	CS91623	955	10
	MO0 31E (3NO + 1NC)	CS91624	955	10
	MO0 22E (2NO + 2NC)	CS91625	955	10

**Note:** 6NC & above combination is not recommended for MO0 AC  
For ordering add-on contact blocks of MX0, MO0, please refer page no.8

## Capacitor Duty Contactors [8536]

### Capacitor Duty Contactors - Type MO C



**MO C50**



**MO C100**

Size	kVAR Rating @ 440V, 3Ph, 50Hz	Type	Built-in Auxiliary Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	3	MO C3	1NO	CS96146	2350	1
	5	MO C5	1NO	CS96127	2460	1
	8.5	MO C8.5	1NO	CS96320	2850	1
	10	MO C10	1NO	CS96156	3040	1
	12.5	MO C12.5	1NO	CS96321	3180	1
	15	MO C15	1NO	CS90019	4140	1
	20	MO C20	1NO	CS90021	4850	1
	25	MO C25▲	1NO	CS96322	5440	1
	30	MO C30\$	1NO	CS96148	8470	1
Fr 2	40	MO C40	1NO	CS96147	14290	1
	50	MO C50	1NO	CS96324	15060	1
	60	MO C60\$	1NO	CS96149	17240	1
Fr 3	75	MO C75	1NO	CS96150	19620	1
	85	MO C85	1NO	CS96157	20060	1
	100	MO C100\$	1NO	CS96158	21190	1

## Definite Purpose Contactors [8536]

### Single Pole Contactors - Type MR

#### Features

- Wide and chatter free operating band
- High AC-1 rating for single phase applications



**MR 11W**  
(Wide band coil)



**MR 13**



**MR 11NW**  
SPN (Wide band coil)

AC3 Rating (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
25A	MR 11W	CS94176	1580	10
25A	MR 11NW	CS94178	1690	10
40A	MR 13	CS94992	1730	40

\*Available till stock last

#### Note:

- Ordering Suffix B000 - 240V, 50Hz
- For ordering add-on aux. contact block, please refer page No.9

## Type MO0 DC



**MO0 DC**

### Features

- Same add-on aux. contact block in MO0 as of MO power contactors
- Inbuilt Surge Suppressor in MO0 DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>For DC control std. Coil Voltage - 24, 48, 110, 220</b>				
AC-15 4A at 415 V	MO0 40E (4NO)	CS90045	2130	10
	MO0 31E (3NO + 1NC)	CS90046	2130	10
	MO0 22E (2NO + 2NC)	CS90047	2130	10

**Note:** 5NC & above combination is not recommended for MO0 DC

For ordering add-on contact blocks of MX0, MO0, please refer page no.8

### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- MO C Range available from 3 - 100 kVAR, AC-6b
- Delatching type early make contacts
- Separate termination for damping resistors
- Encapsulated damping resistor assembly
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- Standard accessories throughout the range in line with MO contactor
- Suitable for Lug as well as Lugless termination
- RoHS compliant**

**For Power Quality Solutions,  
please refer page No. 86-94**

#### Note:

- For ordering add-on aux. contact block, please refer page No.8
- For ordering suffix, please refer page No.10
- For ordering spare coils, please refer page No.11
- Standard coil voltage : 240V, 50/60 Hz
- For ordering MO C surge suppressor, please refer page No.9

▲ If using 16 sq mm cable use of spreader link kit is mandatory

▲ For ordering spreader link kit, Please refer page No.9

\$ Spreader link along with phase barrier included in packing

## Two Pole Contactors - Type MU-2P

### Features

- Wide band potted coil
- Neutral isolation



**MU 16-2P**

AC3 Rating (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
16A	MU16-2P	CS90117	1130	10
25A	MU25-2P	CS90118	1370	10
40A	MU40-2P	CS90119	1750	10

#### Note:

- Coil voltages available for MU-2P are 220V, 240V, wide band coil 160-220V
- Ordering suffix for wide band coil of MU-2P is NOOO
- For ordering add-on aux. contact block, please refer page No.8



## Accessories - Add-on Auxiliary Contact Blocks [8538]

	MNX 9-80	MNX 95-650	MO 9-110	MO 140-300	ML	MX	MDX 9-115	MCX 01-23	MCX 32-47	MX0	MO0	MO C	MR	MU-2P
Front add-on possible	Yes	No	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
Side add-on possible	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No	No

Note: 1) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors

2) Accessories are common for MNX 2P & MNX 3P contactors

### Front Mounting Add-on aux. Contact Block



**MNX / MCX**  
Front Add-on  
aux. contact Block



**MO / MO0**  
Front Add-on  
aux. contact Block



**MDX Front**  
Add-on  
aux. contact Block



**MX Front**  
Add-on  
aux. contact Block



**MU-2P**  
Front Add-on  
aux. contact Block

Front Mounting	Suitable for									
	MNX 9-80 / MCX 01-23	M.R.P. (₹) Per Unit	MO 9-110 / MO0	M.R.P. (₹) Per Unit	MDX# 9-115	M.R.P. (₹) Per Unit	MX 0/6/9/12	M.R.P. (₹) Per Unit	MU-2P	M.R.P. (₹) Per Unit
4 NO	CS94112^	690	CS94594^	690	-	-	CS94033^	650	-	-
3 NO + 1 NC	CS94113^	690	CS94595^	690	-	-	CS94034^	650	-	-
2 NO + 2 NC	CS94114^	690	CS94596^	690	CS96569~	905	CS94035^	650	-	-
1 NO + 3 NC	CS94115^	690	CS94597^	690	CS90906~	905	CS94036^	650	-	-
4 NC	CS94116^	690	CS94598^	690	-	-	CS94037^	650	-	-
2 NO	CS94117^	455	CS94591^	455	-	-	CS94030^	420	CS90692^	455
1 NO + 1 NC	CS94118^	455	CS94592^	455	CS96568~	530	CS94031^	420	CS90693^	455
2 NC	CS94119^	455	CS94593^	455	-	-	CS94032^	420	CS90694^	455
1 NO	CS94120^	235	CS94585^	235	CS96586~	295	-	-	CS90695^	235
1 NC	CS94121^	235	CS94586^	235			-	-	CS90696^	235

\*For MDX Side add-on and top add-on can not be mounted together

\*MDX add-on available till stock last

### Side Mounting Add-on aux. Contact Block



**MNX/MCX**  
Side Add-on aux. contact Block



**MO/MO C**  
Left Add-on aux. contact Block

Side Mounting	Suitable for									
	Aux Contact	MNX 9-40/ MCX 01-04	M.R.P. (₹) Per Unit	MCX 11-13	M.R.P. (₹) Per Unit	MNX 50-80/ MCX 22-23	M.R.P. (₹) Per Unit	MO 9-110/ MO C 3-100	M.R.P. (₹) Per Unit	
First left	1 NO + 1 NC	CS94220^	735	CS94201^	790	CS94201^	790	CS94580^	735	
First Right	1 NO + 1 NC	CS94221^	735	CS94202^	790	CS94202^	790	CS94581^	735	
Second Left	1 NO + 1 NC	-	-	-	-	CS94203^	790	CS94582^	735	
Second right	1 NO + 1 NC	-	-	-	-	CS94204^	790	CS94583^	735	

Note: Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors

For MO 9-18, only First left and Second left side add-on is allowed.

### Side Mounting Add-on aux. Contact Block



**MDX**  
Side Add-on aux.  
contact Block

Side Mounting	Suitable for							
	Aux Contact	MNX 95-650/ MCX 32-47	M.R.P. (₹) Per Unit	MO 140-300	M.R.P. (₹) Per Unit	MDX# 9-115	M.R.P. (₹) Per Unit	
First left	1 NO + 1 NC	CS94205^	900	CS95033^	900	ST94985^	1080	
First Right	1 NO + 1 NC	CS94206^	900	CS95034^	900			
Second Left	1 NO + 1 NC	CS94207^	900	CS95035^	900	-	-	
Second right	1 NO + 1 NC	CS94208^	900	CS95036^	900	-	-	

# For MDX Side add-on and top add-on can not be mounted together

- Standard Packing is 1 ^Standard Packing is 10 ^^Standard Packing is 20

\* MDX add-on available till stock last



## Accessories - Add-on Auxiliary Contact Blocks [8538]

### Side Mounting Add-on aux. Contact Block - ML



**ML Add-on aux. contact block**

Side Mounting	Suitable for				
	Aux Contact	ML 4/6	M.R.P. (₹) Per Unit	ML 12	M.R.P. (₹) Per Unit
Left	1 NO + 1 NC	SS91494 <sup>^</sup>	1110	-	-
Right	1 NO + 1 NC	-	-	SS91474 <sup>^</sup>	1110

Note: Ordering Suffix for Add-on aux. contact blocks : 0000

### Add-on aux. Contact Block - MR



**MR 1NO**

Description	For Contactor	Contacts Type	Cat. No.	M.R.P. (₹) Per Unit
Top add-on single pole	MR	1 NO	CS94179 <sup>^</sup>	345

~ Standard Packing is 1 ^Standard Packing is 10 ^^Standard Packing is 20

\*Available till stock last

## Accessories - Surge Suppressors [8538]

### For MX, MNX, MCX, MO & MO C



**MX - S1**

Ordering Suffix \* 110-240V : B000, 415V : D000

# 110V : A000, 220-240V : B000, 360-525V : D000

^ 110V : A000, 220-320V : B000, 360-415V : D000

MDX 9-115, MNX 550-650, MCX 45-47, MX DC, MX0 DC & MO0 DC have built in surge suppressor

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0 AC (S1)	CS94039*	610	10
MNX 9 - 40 / MCX 01 - 04 (S1)	CS94166*	615	10
MNX 50 - 80 / MCX 11 - 23 (S3)	CS94163*	690	10
MNX 95 - 250 / MCX 32 - 34 (S4)	CS94164#	2270	10
MNX 300 - 400 / MCX 41 - 44 (S6)	CS94165#	3060	10
MO Frame 0/1, MO C Frame 1, MO0 Control	CS91706 <sup>^</sup>	615	10
MO/MO C - Frame 2	CS91707 <sup>^</sup>	690	10
MO/MO C - Frame 3	CS91708 <sup>^</sup>	2270	10
MO Frame - 4/5	CS91854 <sup>^</sup>	3060	10

## Accessories - Mechanical Interlock Kits & Spreader Link Kit [8538]

### Mechanical Interlock Kit for MX, MO, MDX, MNX & MCX



**MCX M3 (MCX 22)**

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0	CS94038	585	10
MO 9 - 110*	CS94584	830	10
MDX 9 - 38	CS96572	690	1
MDX 50 - 115	CS96573	2100	1
MNX 9 - 40	CS94126	475	10
MNX 50 - 80	CS94197	3340	1
MNX 95 - 140	CS94198	5200	1
MNX 185 - 250	CS94199	5920	1
MNX 300 - 650	CS94200	6700	1
MCX 01 - 04	CS94126	475	10
MCX 11 - 13	ST50540	940	10
MCX 22 - 23	CS93095	4410	1
MCX 32 - 34	SS94992	4560	1
MCX 41 - 47	CS94301	7520	1

\*MDX Mechanical interlock kit Available till stock last

Note:

1) Ordering Suffix for Mechanical Interlock Kits : 0000

2) \*MO MIL Kit contains inbuilt 2 NC Contacts

3) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors

4) MIL kit for MNX 50-80 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC

5) MIL kit for MCX 22/23 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC

### MO / MO C Spreader Link Kit



For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9 - 45 / MOC 3 - 30	CS94274	550	10
MO 50 - 70 / MOC 40 - 60	CS94093	870	10
MO 80 - 110 / MOC 75 - 100	CS94094	1260	1
MO 140 - 225	CS91057	3530	1
MO 250 - 300	CS90940	5500	1

Note:

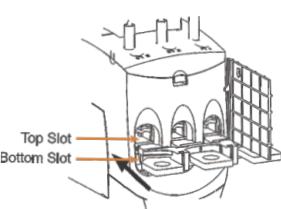
1) If using 16 sq mm cable for MO 45/ MO C25 use of spreader link is mandatory

2) Spreader Link Kit consists of six terminals along with phase barrier  
(Not applicable for MO 250-300)

3) In MO C 30, MO C 60 & MO C 100 spreader link is included in packing

4) Ordering Suffix: 0000

5) Insert spreader link in top slot only



## Accessories - Connecting Links [8538]

### DOL Starter - Link



Contactor  
MMS Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90396 #	455	10
MOG H1/S1 with MO 25-45	CS90391 #	455	10

### Star Delta Starter - Link



Reversing /  
star delta Link



Paralleling  
Link



Contactor  
MMS Link



Shorting  
Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90549 #	1380	10
MOG H1/S1 with MO 25-45	CS90547 #	1380	10

\*Ordering Suffix OOOO

### Reversing DOL Starter - Link



Reversing  
Starter



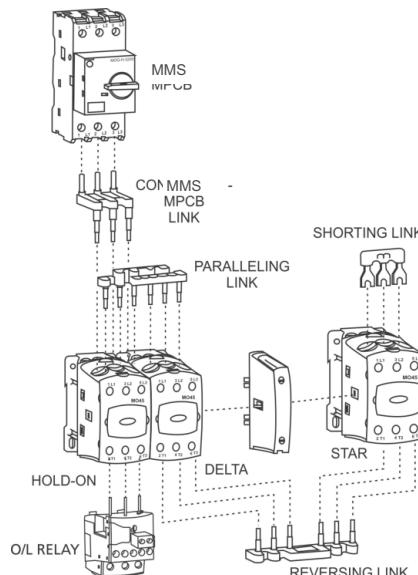
Paralleling  
Link



Contactor  
MMS Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90548 #	1140	10
MOG H1/S1 with MO 25-45	CS90546 #	1140	10

#### Example of Star Delta Starter Connection with Link



### Ordering Suffix for Standard Coil Voltages

Ordering Suffix for Standard Coil Voltages			
AC Control		DC Control*	
Voltage (V)	Suffix	Voltage (V)	Suffix
24	G000	24	4000
110	A000	48	5000
220	K000	110	1000
240	B000	220	2000
415	D000		
440	P000		

Ordering suffix for Electronic coil Contactor		
AC / DC control		
Voltage (V)	Suffix	Contactor
20-48	J000	MDX 50-115
60-110	A000	MDX 50-115
110-240	B000	MDX 50-115 & MO 140-300
240-415	D000	MO 140-300

#### Note:

- 1) \* For MX DC, MDX 9-38, MX0 DC, MO0 DC
- 2) For other coil voltages please contact nearest branch office



## Spare Contact Kit and Spare Coil



**ML Spare Kits**

**ML Spare Coils**

Type	Spare Contact kit		Spare Coil	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
ML 1.5	SS95305 <sup>^</sup>	2750	SS90873 ~	1065
ML 2	SS95307 <sup>^</sup>	5030		
ML 3	SS95309 <sup>^</sup>	8885	SS90545 ~	1970
ML 4	SS95311 <sup>^</sup>	13170		
ML 6	SS95313 <sup>^</sup>	24365	SS91258 ~	3860
ML 10	SS95315~	47460		
ML 12	SS95317~	51140	SS91011 ~	8230
MR	-	-	CS94102 ~	810
MU16-2P	CS90217 <sup>^</sup>	360		
MU25-2P	CS90218 <sup>^</sup>	475	CS90793 ~	425
MU40-2P	CS90219 <sup>^</sup>	680		
MO 0 AC	-	-	CS94841 ~	595

\* MR Coils available till stock last

### Note:

- 1) Coil voltages available for MU-2P are 220V, 240V, wide band coil 160-220V
- 2) Ordering suffix for wide band coil of MU-2P is NOOO

MO C Spare Coils		
Type	Cat. No.	M.R.P. (₹) Per Unit
MO C3 - 30	CS96317 <sup>^</sup>	710
MO C40 - 60	CS96318 <sup>^</sup>	2185
MO C75 - 100	CS96319 <sup>^</sup>	3775

## Front housing & Moving bridge kit and Combination coil with timer for ML contactor



Front housing and moving bridge kit		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 1.5	ST28734~	1020
ML 2 / ML 3	ST23866~	1395
ML 4 / ML 6	ST28735~	2530
Combination coil with timer		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 2	SS90650~	4360

### Note:

- 1) Ordering Suffix for Spare Contact kit - 0000
- 2) For Spare Coil Ordering Suffix refer page No. 10

~ Standard Packing is 1

^~ Standard Packing is 5

^ Standard Packing is 10

~~ Standard Packing is 50

## Spare Contact Kit and Spare Coil



**MNX Spare Coils**

**MCX Spare Kits**

Type	Spare Contact kit		Spare Coil	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
MO 9 (1 NO + 1 NC)	CS94843 <sup>^</sup>	650		
MO 12 (1 NO + 1 NC)	CS94844 <sup>^</sup>	840	CS94841 <sup>^</sup>	585
MO 18 (1 NO + 1 NC)	CS94845 <sup>^</sup>	925		
MO 9	CS96380 <sup>~~</sup>	650		
MO 12	CS96381 <sup>~~</sup>	840		
MO 18	CS96382 <sup>~~</sup>	925		
MO 25	CS96383 <sup>~~</sup>	1075	CS96317 <sup>^</sup>	710
MO 32	CS96384 <sup>~~</sup>	2435		
MO 40	CS96385 <sup>~~</sup>	4110		
MO 45	CS96386 <sup>~~</sup>	4160		
MO 50	CS96387 <sup>~~</sup>	4360		
MO 60	CS96388 <sup>~~</sup>	5645	CS96318 <sup>^</sup>	2185
MO 70	CS96389 <sup>~~</sup>	6270		
MO 80	CS96390 <sup>~~</sup>	8625		
MO 95	CS96391 <sup>~~</sup>	10880	CS96319 <sup>^</sup>	3775
MO 110	CS96392 <sup>~~</sup>	15895		
MO 140	CS90357~	18925		
MO 185	CS90358~	22710	CS90356~	8940
MO 225	CS90359~	26005		
MO 250	CS94444~	31260		
MO 300	CS94443~	35285	CS94442~	13040
MO 140 (electronic coil)	CS90357~	18925		
MO 185 (electronic coil)	CS90358~	22710	CS90855~	16200
MO 225 (electronic coil)	CS90359~	26005		
MO 250 (electronic coil)	CS94444~	31260		
MO 300 (electronic coil)	CS94443~	35285	CS90738~	16005
MNX 9	CS94123 <sup>^</sup>	595		
MNX 12	CS94124 <sup>^</sup>	770		
MNX 18	CS94125 <sup>^</sup>	845		
MNX 22	CS94269 <sup>^</sup>	940	CS94105	535
MNX 25	CS94127 <sup>^</sup>	955		
MNX 32	CS94128 <sup>^</sup>	2260		
MNX 40	CS94147 <sup>^</sup>	3670		
MNX 50	CS94150 <sup>^</sup>	4045		
MNX 70	CS94151 <sup>^</sup>	6095	CS94192 <sup>^</sup>	2140
MNX 80	CS94152 <sup>^</sup>	8310		
MNX 95	CS94153~	10775		
MNX 110	CS94154~	15600	CS94196~	3670
MNX 140	CS94155~	18915		
MNX 185	CS94156~	21085		
MNX 225	CS94157~	24380	CS94194~	8380
MNX 250	CS90310~	29020		
MNX 300	CS90283~	32445		
MNX 400	CS94161~	48970	CS94195~	12420
MNX 550	CS94162~	65795		
MNX 650	CS96336~	102735	CS94193~	26245
MCX 01-04	-	-	CS94105 <sup>^</sup>	535
MCX 11	CS94077 <sup>^</sup>	1890		
MCX 12	CS94078 <sup>^</sup>	3705	CS94009 <sup>^</sup>	725
MCX 13	CS90307 <sup>^</sup>	5740		
MCX 22	CS94331~	6990	ST91291*~	1800
MCX 23	CS90078~	8660		
MCX 32	CS94082 <sup>^</sup>	13235		
MCX 33	CS94083 <sup>^</sup>	17110	CS94196~	3670
MCX 34	CS94084 <sup>^</sup>	20035		
MCX 41	CS94295 <sup>~</sup>	29515		
MCX 42	CS94296 <sup>~</sup>	34320	CS94195~	12420
MCX 43	CS94297 <sup>~</sup>	41185		
MCX 44	CS94298 <sup>~</sup>	52060		
MCX 45	CS94299 <sup>~</sup>	54420		
MCX 46	CS94300~	63245	CS94193~	26245
MCX 47	CS90308~	89745		

\* Ordering Suffix for 240V AC - F000, 415V AC - R000

Lauritz Knudsen, 01.10.2025



# Thermal Overload Relays [8536]

## Type MN - Suitable for MNX Contactor

### Features

- Available in 3 frame sizes from 0.2-570 A
- Ambient temperature compensated up to 55°C
- Built-in Single Phasing protection
- Manual and auto reset mode
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1



MN 2

MN 5

MN 12

MN 12L

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Direct Mounting on MNX 9 - 40</b>				
MN 2 (Directly Operated)	0.2 - 0.33	SS9414100EO	1770	10
	0.3 - 0.5	SS9414100GO	1770	10
	0.45 - 0.75	SS9414100JO	1770	10
	0.6 - 1	SS9414100KO	1770	10
	0.9 - 1.5	SS9414100MO	1820	10
	1.4 - 2.3	SS9414100PO	1820	10
	2 - 3.3	SS9414100QO	1820	10
	3 - 5	SS9414100SO	1820	10
	4.5 - 7.5	SS9414100UO	1820	10
	6 - 10	SS9414200VO	1820	10
	9 - 15	SS9414200BO	1890	10
	14 - 23	SS9414400DO	2020	10
	20 - 33	SS9414500EO	3020	10
	24 - 40	SS9414500FO	3180	10
<b>Direct Mounting on MNX 50 - 80</b>				
MN 5 (Directly Operated)	9 - 15	SS9413500BO	3760	10
	14 - 23	SS9413500DO	3760	10
	20 - 33	SS9413600EO	3760	10
	30 - 50	SS9413600GO	4800	10
	36 - 60	SS9413600TO	5030	10
	45 - 75	SS9413700JO	5450	10
	66 - 110	SS9413700KO	6210	10
<b>Separate Mounting</b>				
MN 12 (CT Operated)	28 - 46.5	SB9421100GO	9050	1
	42 - 69	SS9413800HO	9050	1
	60 - 100	SS9413800KO	9050	1
	90 - 150	SS9413800MO	9050	1
	135 - 225	SS9413800PO	10510	1
	180 - 300	SS9413900QO	11790	1
	270 - 450	SS9413900RO	14800	1
<b>Separate Mounting</b>				
MN 12L# (CT Operated)	42 - 69	SS9412700HO	28820	1
	60 - 100	SS9412700KO	28820	1
	90 - 150	SS9412700MO	28820	1
	135 - 225	SS9412700PO	28820	1
	180 - 300	SS9412700QO	28820	1
	340 - 570	SS9412700SO	28820	1

# For motors with longer starting time (Trip class 30)

## Type RTO - Suitable for MO Contactor

### Features

- Ambient temperature compensated upto 55°C
- Built-in Single Phasing protection
- Manual and auto reset mode
- Front access to START and STOP/RESET buttons
- Sealable in OFF condition
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1



RTO 1

RTO 2

RTO 3

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Direct Mounting on MO 9 - 45</b>				
RTO - 1 (Directly Operated)	0.23 - 0.41	CS9635500FO	2680	10
	0.31 - 0.55	CS9635500GO	2680	10
	0.55 - 0.85	CS9635500JO	2680	10
	0.78 - 1.2	CS9635500LO	2680	10
	1.2 - 2.0	CS9635500NO	2680	10
	1.9 - 2.8	CS9635500PO	2720	10
	2.4 - 3.6	CS9635500QO	2720	10
	3.5 - 5.2	CS9635500SO	2720	10
	4.6 - 6.7	CS9635500TO	2720	10
	6.7 - 9.7	CS9635500VO	2720	10
	8.5 - 12.5	CS9635500AO	2720	10
	12.5 - 18.5	CS9635600CO	2950	10
	17 - 25.5	CS9635600DO	2950	10
	25 - 37	CS9635600EO	4330	10
	35 - 45	CS9635600GO	4550	10
<b>Direct Mounting on MO 50 - 70</b>				
RTO - 2 (Directly Operated)	5 - 7.5	CS9636600UU	5240	1
	7 - 11	CS9636600VO	5240	1
	10.5 - 16	CS9636600BO	5240	1
	15 - 21	CS9636600CO	5240	1
	20 - 31	CS9636600EO	5460	1
	30 - 43	CS9636600FO	6590	1
	40 - 57	CS9636600SO	7210	1
	50 - 75	CS9636700JO	7570	1
<b>Direct Mounting on MO 80 - 110</b>				
RTO - 3 (Directly Operated)	23 - 30	CS9087300EO	8010	1
	29 - 38	CS9630300QQ	8320	1
	37 - 49	CS9630400GO	8580	1
	47 - 62	CS9631200TO	8740	1
	60 - 78	CS9631300JO	10300	1
	75 - 110	CS9631400KO	11250	1
<b>Separate Mounting</b>				
RTO - 4 (CT Operated)	23.4 - 36	CS9709600GO	12950	1
	36 - 60	CS9709600JO	12950	1
	57 - 84	CS9709600KO	12950	1
	72 - 108	CS9709600LO	12950	1
	105 - 156	CS9709600MO	12950	1
	138 - 201	CS9709600NO	15900	1
	201 - 291	CS9709600QQ	16600	1
	255 - 375	CS9709600RO	20710	1

## Thermal Overload Relays [8536]

### Type RX

#### Features

- Direct mounting on MX contactor
- Built-in single phasing protection
- Front access to START and STOP/RESET buttons

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RX (Directly Operated)	0.23-0.41	CS9635700FO	1510	10
	0.45-0.78	CS9635700JO	1510	10
	0.78-1.2	CS9635700LO	1510	10
	1.2-1.9	CS9635700NO	1510	10
	1.8-2.8	CS9635700PO	1510	10
	2.6-3.6	CS9635700QO	1510	10
	3.6-5.2	CS9635700SO	1510	10
	4.8-7	CS9635700TO	1510	10
	6.4-9.7	CS9635700VO	1510	10
	8.2-12.1	CS9635700AO	1510	10

### Type MU-2P (2 Pole)



MU-2P

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MU 2P (2 Pole)				
Direct Mounting on MU-2P Contactor	1 - 1.6A	CS902070OMO	850	1
	1.5 - 2.5A	CS902070OPO	850	1
	2.5 - 4A	CS902070ORO	850	1
	4 - 6.5A	CS902070OTO	850	1
	6 - 10A	CS902070OVO	850	1
	9 - 14A	CS9020700AO	850	1

### Type ML



ML

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Direct Mounting on ML 1.5 Contactors				
ML 1 (Directly Operated)	0.15 - 0.25	SS918580ODO	3760	10
	0.25 - 0.4	SS918580OFO	3760	10
	0.4 - 0.65	SS918580OHO	3760	10
	0.6 - 1	SS918580OKO	3760	10
	1 - 1.6	SS918580OMO	3760	10
	1.5 - 2.5	SS918580OPO	3760	10
	2.5 - 4	SS918580ORO	3760	10
	4 - 6.5	SS918580OTO	3760	10
	6 - 10	SS918580OVO	3760	10
	10 - 16	SS918580OBO	3760	10
	11 - 18	SS918580OCO	3760	10
Direct Mounting on ML 2/3 Contactors				
ML 2 / ML 3 (Directly Operated)	9 - 14	SS9185900AO	5560	10
	13 - 21	SS9185900CO	5560	10
	20 - 32	SS9185900EO	5560	10
	28 - 42	SS9185900FO	5560	10

## Accessories for Thermal Overload Relays [8538]

### Accessories for Thermal Overload Relays



Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Push button extn. unit for MN 2 Relays	SS949680000	75	100
Kit for Mounting MN 2 Relay on ML 1.5 contactor	SS947010000	260	50
Kit for Mounting MN 2 Relay separately (Direct Mounting Type)	SS947000000	260	50
Kit for Mounting MN 5 Relay on MNX 95 / 110 / 140 contactor	SS946380000	420	20
Kit for Mounting MN 5 Relay on ML 2 / ML 3 contactor	SS941510000	270	20
Kit for Mounting MN5 Relay on ML 4 / ML 6 contactor	SS941520000	370	20
DIN Rail Mounting Kit Relay on MN 2 Relay	SS918870000	205	50

### Separate Mounting Kit for RTO Relay



### Relay Reset Cord for MN & RTO relay



Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN Relay reset cord - 400mm	SB942070000	945	1
MN Relay reset cord - 650mm	SB942080000	985	1
MN Relay reset cord - 900mm	SB942090000	1010	1
MN Relay reset cord - 1200mm	SB942100000	1135	1
RTO Relay reset cord - 400mm	CS909410000	945	1
RTO Relay reset cord - 650mm	CS909420000	985	1
RTO Relay reset cord - 900mm	CS909430000	1010	1
RTO Relay reset cord - 1200mm	CS909440000	1135	1
Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RTO-1 Relay Separate Mounting Kit	CS963350000	350	1
RTO-2 Relay Separate Mounting Kit	CS963060000	835	1
RTO-3 Relay Separate Mounting Kit	CS963070000	1190	1



## Electronic Motor Protection Relay [8536]

### Type REO - Electronic Overload Relay

#### Features

- › Protections:
  - » Overload
  - » Single Phasing, Phase unbalance
  - » Locked Rotor
  - » Earth Fault in REO 1.1G & REO 4G
- › Trip indication
- › Selectable Trip class - 10A, 10, 20, 30 as per IEC 60947-4-1
- › Conforms IS/IEC 60947-4-1 & IEC 60947-4-1



To Experience the Benefits of REO Electronic Overload Relay



Click or Scan

Model	Type of Mounting	Relay Range (A)	Without earth fault protection		Model	With in-built earth fault protection		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	
REO 1.1	Direct Mounting on MO 9-45	0.15 - 0.75	CS9041800JO	6200	REO 1.1G	CS9042300JO	10340	10
		0.6 - 3	CS9041800QO	6200		CS9042300QQ	10340	10
		2.4 - 12	CS9041800LO	6200		CS9042300LO	10340	10
		9 - 45	CS9041800GO	6970		CS9042300GO	10690	10
REO 4	Separate Mounting	18-90	CS9041800UU	18370	REO 4G	CS9042300UU	18850	1
		72-360	CS9041800RO	25180		CS9042300RO	25270	1

### Type REO - Electronic Over Current Relay

Electronic Overcurrent Relay (EOCR) is a type of Electronic relay that has tripping based on Definite mean time characteristics.

The tripping of relay is decided by trip time selected by user.

#### Features

- › Protections:
  - » Overload
  - » Single Phasing, Phase unbalance
  - » Locked Rotor
- › Settable start time (5s, 10s, 20s, 40s) and trip time (2s, 4s, 8s, 16s)
- › Trip indication
- › Conforms IS/IEC 60947-4-1 & IEC 60947-4-1



Model	Type of Mounting	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO 1.1c	Direct Mounting on MO 9-45	0.15 - 0.75	CS9191100JO	7970	1
		0.6 - 3	CS9191100QO	7970	1
		2.4 - 12	CS9191100LO	7970	1
		9 - 45	CS9191100GO	7970	1

#### Accessories for REO - Electronic Overload Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO Relay Reset Cord - 400mm	CS904250000	945	1
Separate Mounting Kit for REO 1.1/1.1G/1.1c Relay	CS963350000	350	1



**Lauritz  
Knudsen**

Electrical & Automation

# eMPR300D & eMPR300I

Microcontroller based Motor Protection  
Relay with Inbuilt CTs,  
Display and Communication.

Protect Your Motors, Enhance Plant Performance.



Electronic Overload +  
Overcurrent Protection



EOLR + EOCR  
in one product



Current rating  
1 to 88 Amp



RS-485  
Communication

Remote Monitoring of Motor Feeders with **SMARTCOMM**



## Microcontroller based Motor Protection Relay [8536]

### eMPR150 - Electronic Motor Protection Relay



#### › Protections

- » Overload
- » Locked Rotor
- » Single Phasing, Current Unbalance,
- » Under Current
- › Inbuilt CT's (1 A to 88 A)
- › Trip indication
- › Test facility
- › Site Selectable – Fail-safe / Non Fail-safe mode
- › Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1

### eMPR300 - Electronic Motor Protection Relay with Built-in Earth Fault Protection



#### › Protections

- » Overload
- » Locked Rotor
- » Single Phasing, Current Unbalance,
- » Under Current
- » Earth Fault
- » Phase Sequence Reversal
- › Inbuilt CT's (1 A to 88 A)
- › Trip indication
- › Test facility
- › Site Selectable Phase Sequence - RYB/ RBY
- › Site Selectable – Fail-safe / Non Fail-safe mode
- › Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1

Model	Aux. Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR150	110V AC	1-5.5	49, 51LR, 37, 46	EMPR150XAAO	3600
		4-22		EMPR150XABO	5200
		16-88		EMPR150XACO	6800
	230V AC	1-5.5		EMPR150XBAO	3600
		4-22		EMPR150XBBO	5200
		16-88		EMPR150XBCO	6800

eMPR selection must be done as per Line Current of Motor

Model	Aux. Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR300	110V AC	1-5.5	49, 51LR, 64, 37, 46	EMPR300XAAO	9200
		4-22		EMPR300XABO	10800
		16-88		EMPR300XACO	12800
	230V AC	1-5.5		EMPR300XBAO	9200
		4-22		EMPR300XBBO	10800
		16-88		EMPR300XBCO	12800

eMPR selection must be done as per Line Current of Motor

### eMPR300D - Electronic Motor Protection Relay with inbuilt display

One solution for both EOLR and EOCR applications



#### › Protections

- » Overload
- » Locked Rotor
- » Single Phasing, Current Unbalance,
- » Under Current
- » Earth Fault
- » Phase Sequence Reversal
- » Overcurrent
- › 7 Segment LED Display
- › Inbuilt CT's (1 A to 88 A)
- › 5 trip records
- › Test facility
- › Site Selectable – Fail-safe / Non Fail-safe mode
- › Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1

### eMPR300I - Electronic Motor Protection Relay with inbuilt display & Modbus RTU Communication

One solution for both EOLR and EOCR applications



#### › Protections

- » Overload
- » Locked Rotor
- » Single Phasing, Current Unbalance,
- » Under Current
- » Earth Fault
- » Phase Sequence Reversal
- » Overcurrent
- › 7 Segment LED Display
- › Inbuilt CT's (1 A to 88 A)
- › 5 trip records
- › Test facility
- › Site Selectable – Fail-safe / Non Fail-safe mode
- › Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1
- › Inbuilt Communication port Modbus - RS-485

Model	Aux. Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR300D	85-265V AC	1-5.5	37, 46, 49, 51LR, 51, 64	EMPR300DCAO	11200
		4-22		EMPR300DCBO	12800
		16-88		EMPR300DCCO	14800

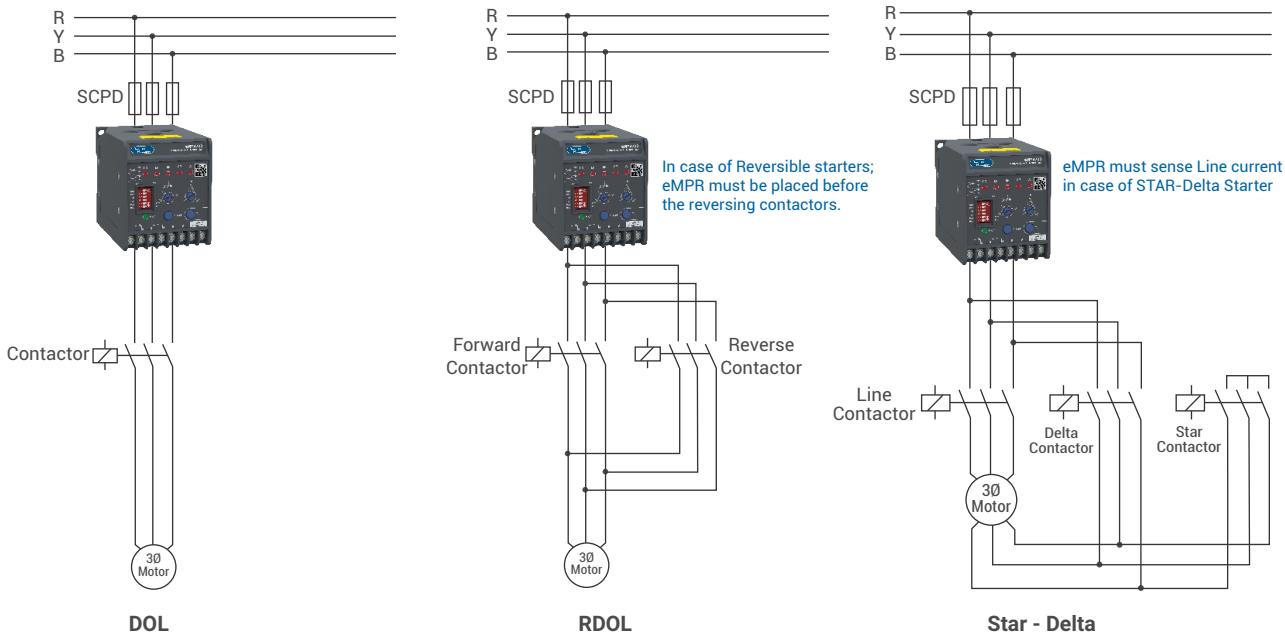
eMPR selection must be done as per Line Current of Motor

Model	Aux. Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR300I	85-265V AC	1-5.5	37, 46, 49, 51LR, 51, 64	EMPR300ICA0	14500
		4-22		EMPR300ICBO	16000
		16-88		EMPR300ICCO	17500

eMPR selection must be done as per Line Current of Motor

## Microcontroller based Motor Protection Relay [8536]

### Application Schemes : eMPR150, eMPR300, eMPR300D, eMPR300I



### Compact Motor Protection Relay - MM10

#### Features

- Flush Mounting with display
- Last trip data recording
- Protections:
  - Thermal Overload with pre-alarm
  - Short Circuit
  - Earth fault
  - Phase loss, Unbalance, Phase reversal
  - Under Current
  - Prolong starting, Locked Rotor



Model	Aux. Supply	CT <sup>#</sup> secondary	Device code	Cat. No.	M.R.P. (₹) Per Unit
MM10	110 - 240 V AC / DC	5 Amp	37, 46, 49, 50 / 51, 51LR, 64	MM10240E005	36900

# - Protection Class CT

### Draw-out Motor Protection Relay - MPR21 NEW

- MPR21 – 37, 46, 48, 49, 50BF, 50, 51, 50N, 51N, 51LR, 64, 66, 74TCS.
- Microcontroller-based design
- Draw-out enclosure.
- CT rating<sup>#</sup> - 1A/ 5A (site selectable)
- Display of 250 event and 30 Trip records
- 128\*64 graphical display
- Modbus RS-485 Communication
- Front Micro USB port for numrAL Suite



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL	20 - 60V DC	Modbus RS 485		
MPR21	85 - 265V AC, 87 - 265V DC	Modbus RS 485		*Available On Request

# - Protection Class CT

\* Please contact our nearest branch for details





Electrical & Automation

## Redundant and Reliable network for Intelligent Motor Management Solution with iMMR

DISPLAY UNIT



iMMR MAIN  
UNIT



CT UNIT



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Powered By  
**SMARTCOMM**

### iMMR - Intelligent Motor Management Relay

Besides control, protection and diagnostics, iMMR provides accurate real time data for analytics and insights into the performance of plant and process



Optimum Protection



Accurate real time data



Predictive Maintenance



Cloud Computing



Profinet/Modbus Protocol

Intelligent Motor Management Solutions for enhancement of process and energy efficiency.

Comprehensive Protection and Reliable Motor control with Ethernet based redundant communication network.

Real time monitoring and Predictive analytics with SmartComm

Ring & Star communication networking with Profinet & Ethernet IP

## iMMR - Intelligent Motor Management Relay [8536]



iMMR is a comprehensive Motor protection, control and monitoring relay for intelligent MCC's

"Besides control, protection and diagnostics, iMMR provides accurate real time data for analytics and insights into the performance of plant and process"

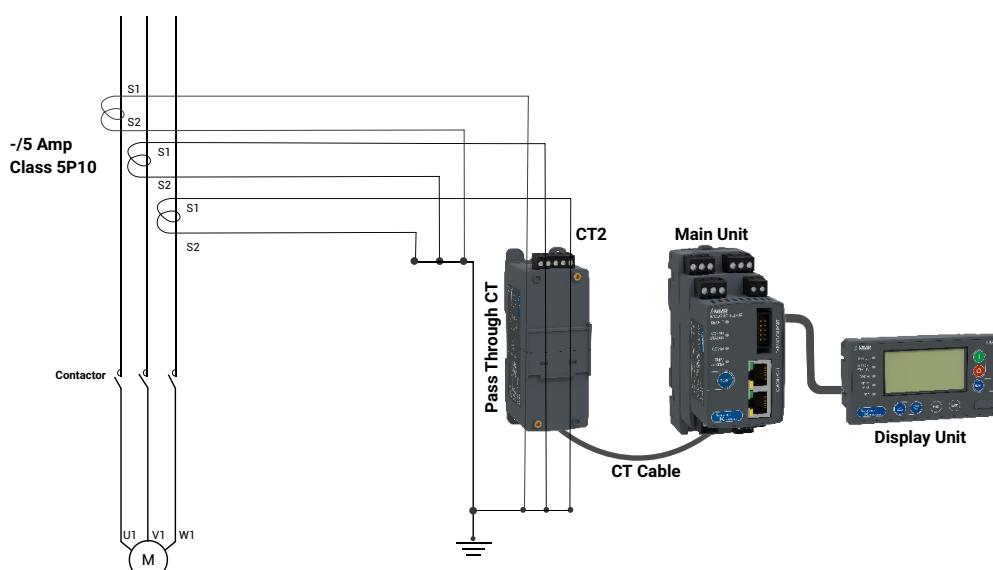
### Features

- › Comprehensive Current & Voltage based Protections
- › 20 nos. of last trip records, 100 event records and 20 IRF Records are available
- › Preprogrammed Starter logics reduces manufacturing and commissioning time
- › Software iMMR Suite is available for Easy and effective configuration and monitoring
- › Ethernet IP, Profinet, Modbus RTU, Modbus TCP/IP and Profibus-DP protocols available for seamless integration with DCS/PLC
- › Redundant network for seamless Motor control and monitoring, with Profinet/ Ethernet IP

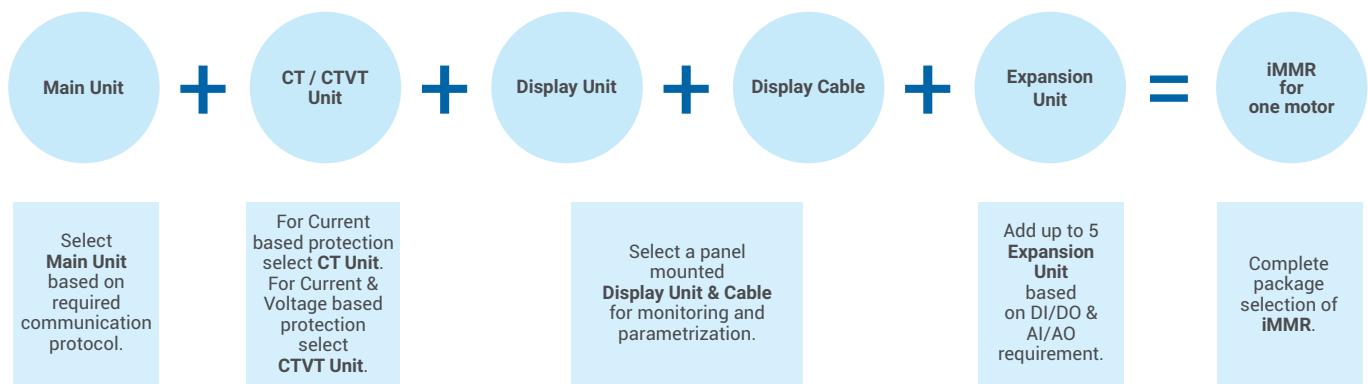
Product	Description	Cat. No.	M.R.P. (₹) Per Unit
Main Unit	iMMR MODBUS RTU 85-265 VAC/DC	CS912440000	22000
	iMMR PROFIBUS-DP 85-265 VAC/DC	*Available On Request	
	iMMR MODBUS TCP/IP 85-265 VAC/DC	*Available On Request	
	iMMR Ethernet IP 85-265 VAC/DC	*Available On Request	
	iMMR Profinet 85-265 VAC/DC	*Available On Request	
CT Unit	CT1 (0.3-3A) with 15 cm cable	CS912450000	5200
	CT2 (2.5-25A) with 15 cm cable	CS912460000	6900
	CT3 (7-70A) with 15 cm cable	CS912470000	11000
CTVT Unit	CT1 (0.3-3A) + VT with 15 cm cable	CS912490000	12000
	CT2 (2.5-25A) + VT with 15 cm cable	CS912500000	14300
	CT3 (7-70A) + VT with 15 cm cable	CS912510000	18700
Display Unit	iMMR Display unit without cable	CS912530000	11000
Display Cable	iMMR Display Cable - 1 meter	XK131280000	1100
	iMMR Display Cable - 2 meter	XK131290000	1600
Expansion Unit	iMMR EXP 4DI + 2DO with 10 cm cable	*Available On Request	
	iMMR EXP 6DI 110V/240V with 10cm cable	*Available On Request	
	iMMR EXP Earth Leakage + 2DI + 2DO with 10 cm cable	*Available On Request	
	iMMR EXP 2AI + 1AO with 10 cm cable	*Available On Request	

\* Please contact our nearest branch for details

### iMMR with external CT's for Motors >37kW



## iMMR selection guide



## Cat.no. selection guide

### Modbus RTU communication and Current based protection and metering

Motor Rating	Total MRP	Main Unit - Modbus RTU	CT Unit	Display Unit	Display Cable - 2 meter
<1.1 KW	39800	CS912440000	CS912450000	CS912530000	XK131290000
1.1 KW to 11 KW	41500	CS912440000	CS912460000	CS912530000	XK131290000
11 KW to 37 KW	45600	CS912440000	CS912470000	CS912530000	XK131290000
>37 KW	41500	CS912440000	CS912460000*	CS912530000	XK131290000

\* with External Protection class CT's of -/5Amp

### Modbus RTU communication and Current + Voltage based protection and metering

Motor Rating	Total MRP	Main Unit - Modbus RTU	CTVT Unit	Display Unit	Display Cable - 2 meter
<1.1 KW	46600	CS912440000	CS912490000	CS912530000	XK131290000
1.1 KW to 11 KW	48900	CS912440000	CS912500000	CS912530000	XK131290000
11 KW to 37 KW	53300	CS912440000	CS912510000	CS912530000	XK131290000
>37 KW	48900	CS912440000	CS912500000*	CS912530000	XK131290000

\* with External Protection class CT's of -/5Amp



## Manual Motor Starters [8536]

### Rocker Type

- › MOG-S1: upto 32A
- › Short circuit + Overload protection

### Rotary Type

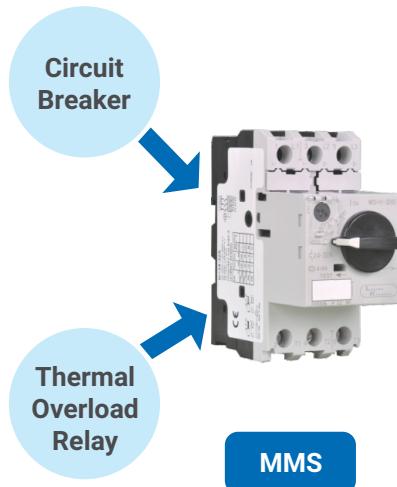
- › MOG-H1M: upto 32A
- › MOG-H2M: 32A-63A
- › Short circuit protection

### Rotary Type

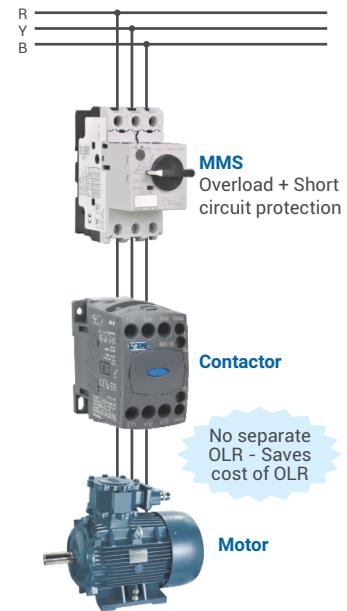
- › MOG-H1: upto 32A
- › MOG-H2: 32A-63A
- › Short circuit + Overload protection

Rocker type and Rotary Type Manual Motor Starters conforms to IEC 60947-4-1

<ul style="list-style-type: none"> <li>› Short circuit protection</li> <li>› Over current protection</li> </ul>
<ul style="list-style-type: none"> <li>› Overload protection</li> <li>› Phase loss protection</li> <li>› Wide range of current adjustment dial</li> <li>› Ambient temperature compensation</li> </ul>



<ul style="list-style-type: none"> <li>› Compact</li> <li>› High breaking capacity</li> <li>› Short circuit protective coordination</li> <li>› Reduction in wiring work</li> <li>› High switching durability</li> <li>› Padlocking feature available even without extended rotary handle</li> <li>› Stand alone motor protection</li> <li>› Common accessories</li> </ul>
---



### Type MOG-S1 (Rocker Type)

With short circuit & overload protection



Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (kW)	Thermal Release range (A)	Instantaneous Trip Current (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	2.1	ST418890000	3270	1
0.25	0.06	0.16 - 0.25	3.3	ST418900000	3270	1
0.40	0.09	0.25 - 0.40	5.2	ST418910000	3270	1
0.63	0.12	0.40 - 0.63	8.2	ST418920000	3720	1
1.00	0.25	0.63 - 1.00	13	ST418930000	3720	1
1.60	0.55	1.00 - 1.60	20.8	ST418940000	3740	1
2.50	0.75	1.60 - 2.50	32.5	ST418950000	3740	1
4.00	1.50	2.50 - 4.00	52	ST418960000	3880	1
6.30	2.20	4.00 - 6.30	81.9	ST418970000	3880	1
10.00	4.00	6.30 - 10.00	130	ST418980000	4140	1
13.00	5.40	9.00 - 13.00	169	ST418990000	4660	1
16.00	7.50	11.00 - 16.00	208	ST419000000	5100	1
20.00	9.00	14.00 - 20.00	260	ST419010000	5360	1
25.00	12.50	19.00 - 25.00	325	ST419020000	5630	1
32.00	15.00	24.00 - 32.00	416	ST419030000	10000	1

Note: Extended rotary handle cannot be fitted with MOG - S1

### Type MOG-H1 (Rotary Type) - Frame1

With short circuit & overload protection



Rating (A)	Recommended Motor Rating at 415V, 3--Ph, 50Hz (kW)	Thermal Release range (A)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	2.1	ST419040000	4160	1
0.25	0.06	0.16 - 0.25	3.3	ST419050000	4160	1
0.40	0.09	0.25 - 0.40	5.2	ST419060000	4160	1
0.63	0.12	0.40 - 0.63	8.2	ST419070000	4650	1
1.00	0.25	0.63 - 1.00	13	ST419080000	4650	1
1.60	0.55	1.00 - 1.60	20.8	ST419090000	4800	1
2.50	0.75	1.60 - 2.50	32.5	ST419100000	4800	1
4.00	1.50	2.50 - 4.00	52	ST419110000	4890	1
6.30	2.20	4.00 - 6.30	81.9	ST419120000	4940	1
10.00	4.00	6.30 - 10.00	130	ST419130000	5260	1
13.00	5.40	9.00 - 13.00	169	ST419140000	5830	1
16.00	7.50	11.00 - 16.00	208	ST419150000	6270	1
20.00	9.00	14.00 - 20.00	260	ST419160000	6760	1
25.00	12.50	19.00 - 25.00	325	ST419170000	7030	1
32.00	15.00	24.00 - 32.00	416	ST419180000	11400	1

## Manual Motor Starters [8536]

### Type MOG-H1M (Rotary Type) - Frame 1



With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (kW)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	2.1	ST419230000	3740	1
0.25	0.06	3.3	ST419240000	3740	1
0.40	0.09	5.2	ST419250000	3740	1
0.63	0.12	8.2	ST419260000	4230	1
1.00	0.25	13	ST419270000	4310	1
1.60	0.55	20.8	ST419280000	4310	1
2.50	0.75	32.5	ST419290000	4340	1
4.00	1.50	52	ST419300000	4390	1
6.30	2.20	81.9	ST419310000	4390	1
10.00	4.00	130	ST419320000	4530	1
13.00	5.40	169	ST419330000	4730	1
16.00	7.50	208	ST419340000	4730	1
20.00	9.00	260	ST419350000	4970	1
25.00	12.50	325	ST419360000	5120	1
32.00	15.00	416	ST419370000	8420	1

### Type MOG-H2 (Rotary Type) - Frame 2



With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (kW)	Thermal Release range (A)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	24.00 - 32.00	416	ST419190000	14600	1
40.00	20.00	28.00 - 40.00	520	ST419200000	16100	1
50.00	25.00	35.00 - 50.00	650	ST419210000	20100	1
63.00	34.00	45.00 - 63.00	819	ST419220000	20400	1

### Type MOG-H2M (Rotary Type) - Frame 2



With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (kW)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	416	ST419380000	14000	1
40.00	20.00	520	ST419390000	14100	1
50.00	25.00	650	ST419400000	14500	1
63.00	34.00	819	ST419410000	14800	1

## Accessories for MOG [8538]



Short Circuit Alarm



Auxiliary + Alarm



Extended Rotary Handle



Shunt Trip



MMSs with bus bar connection



Connecting Busbar link



3 Phase Feed in terminal

Mounting Position *	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
F1/F2	Auxiliary Contact Front mtg. 1NO	ST419420000	645	10
F1/F2	Auxiliary Contact Front mtg. 1NC	ST419430000	645	10
L	Auxiliary Contact Left side mtg. 2NO	ST419440000	890	1
L	Auxiliary Contact Left side mtg. 1NO + 1NC	ST419450000	890	1
L	Auxiliary Contact Left side mtg. 2NC	ST419460000	890	1
F2	Trip Alarm Contact Front mtg. 1NO	ST419470000	1150	10
F2	Trip Alarm Contact Front mtg. 1NC	ST419480000	1150	10
L	Auxiliary + Alarm Left side mtg. 2NO	ST419490000	1220	1
L	Short circuit alarm Left side mtg. 1NO + 1NC	ST419500000	1220	1
R	Shunt trip 24V DC	ST419510000	2350	1
R	Shunt trip 110V, 50Hz	ST419520000	2475	1
R	Shunt trip 230V, 50Hz	ST429520000	2475	1
R	Under Voltage release, 110V, 50Hz	ST419530000	2475	1
R	Under Voltage release, 415V, 50Hz	ST419540000	2475	1
-	External operating handle, (Black) Frame 1	ST419550000	1425	1
-	External operating handle, (Black) Frame 2	ST419560000	1425	1

\* F1- Front left slot    F2- Front right slot    L- Left side    R- Right side

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Connecting Busbar link			
2 MMS 45 mm width w/o acc	ST419570000	745	5
3 MMS 45 mm width w/o acc	ST419580000	820	5
4 MMS 45 mm width w/o acc	ST419590000	885	5
5 MMS 45 mm width w/o acc	ST419600000	1130	5
2 MMS 45 mm width with one acc 9 mm	ST419610000	870	5
3 MMS 45 mm width with one acc 9 mm	ST419620000	940	5
4 MMS 45 mm width with one acc 9 mm	ST419630000	1010	5
5 MMS 45 mm width with one acc 9 mm	ST419640000	1080	5
2 MMS 55 mm width w/o acc	ST419660000	1360	1
3 MMS 55 mm width w/o acc	ST419670000	1550	1
4 MMS 55 mm width w/o acc	ST419680000	1860	1
2 MMS 55 mm width with one acc 9 mm	ST419690000	1480	1
3 MMS 55 mm width with one acc 9 mm	ST419700000	1680	1
4 MMS 55 mm width with one acc 9 mm	ST419710000	1980	1
2 MMS 55 mm width with two acc 18 mm	ST419720000	1730	1
4 MMS 55 mm width with two acc 18 mm	ST419730000	1930	1
Feed in terminal for 45 mm width Busbar	ST419650000	870	1
Feed in terminal for 55 mm width Busbar	ST419740000	1500	1
Bus bar safety cover 45 mm width Busbar	ST419750000	375	10
Bus bar safety cover 55 mm width Busbar	ST419760000	405	10

acc: Accessories

Lauritz Knudsen, 01.10.2025



## Motor Starters [8536]

### Direct-on-Line Starters

in Sheet-Steel Enclosure Type MN / ML  
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)



MN 16



ML 1.5

Max. Motor Output at 415V, 3-Ph	Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW				
10.0	7.5	9 - 15	MN 16 DOL	SS94351	5500
15.0	11.0	14 - 23	MN 25 DOL	SS94352	8390
20.0	15.0	20 - 33	MN 32 DOL	SS94353	13500
30.0	22.5	30 - 50	MN 45 DOL	SS94017	23100
45.0	33.5	45 - 75	MN 65 DOL	SS94018	31700
30.0	22.5	28 - 42	ML 3 DOL	SS90722	29800

### Fully Automatic Star-Delta Starters [8536]

in Sheet-Steel Enclosure Type MN / ML  
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

Max. Motor Output at 415V, 3-Ph	Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW				
17.5	13.0	9 - 15	MN 16 FASD	SS94362	18500
30.0	22.5	14 - 23	MN 25 FASD	SS94364	20700
40.0	30.0	20 - 33	MN 32 FASD	SS94366	34000
50.0	37.5	30 - 50	MN 45 FASD	SS94021	54600
75.0	55.0	45 - 75	MN 65 FASD	SS94022	90600
90.0	67.5	45 - 75	MN 80 FASD	SS94705	98900
150.0	110.0	66 - 110	MN 110 FASD	SS94706	129600
180.0	132.0	90 - 150	MN 140 FASD	SS94707	141500
50.0	37.5	28 - 42	ML3 FASD	SS90730	71900
75.0	55.0	45 - 75	ML4 FASD	SS90913	123200
125.0	90.0	66 - 110	ML6 FASD	SS90923	202100

### Ordering Suffix for ML & MN Starters

Coil Voltages	ML	MN
B - 240 V	A : 9 - 14	B : 9 - 15
C - 360 V	B : 10 - 16	D : 14 - 23
D - 415 V	C : 13 - 21	E : 20 - 33
P - 440 V	E : 20 - 32	G : 30 - 50
	F : 28 - 42	J : 45 - 75
	G : 30 - 50	K : 66 - 110
	J : 45 - 75	Q : 2 - 3.3
	K : 66 - 110	S : 3 - 5
	M : 90 - 150	T : 36 - 60
	P : 135 - 225	U : 4.5 - 7.5
	Q : 180 - 310	V : 6 - 10
	R : 2.5 - 4	M : 90 - 150
	T : 13 - 21	

### Spares for MN Starters [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Bracket for Mounting cont. MNX 25 - 32	SS940300000	180	20
MN DOL/FASD Push Button	SS939410000	310	10

### Timers

### Electronic Timers Type ST 100 [9107]



ST 100

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
240 / 360 / 415V, 50Hz for 3 - 30 secs.	ST803280000	2090	1
12 - 120 secs.	ST803290000	2090	1

Note:

ST 100 supplied with Mounting Kit, suitable for ET 100 replacement.  
For Complete range of Timing Devices, please refer the Panel Accessories Price List.



All our Type 2 charts are available on **Knowledge Portal**



Access E&A's Knowledge Portal from  
[www.LK-EA.com/kp](http://www.LK-EA.com/kp)

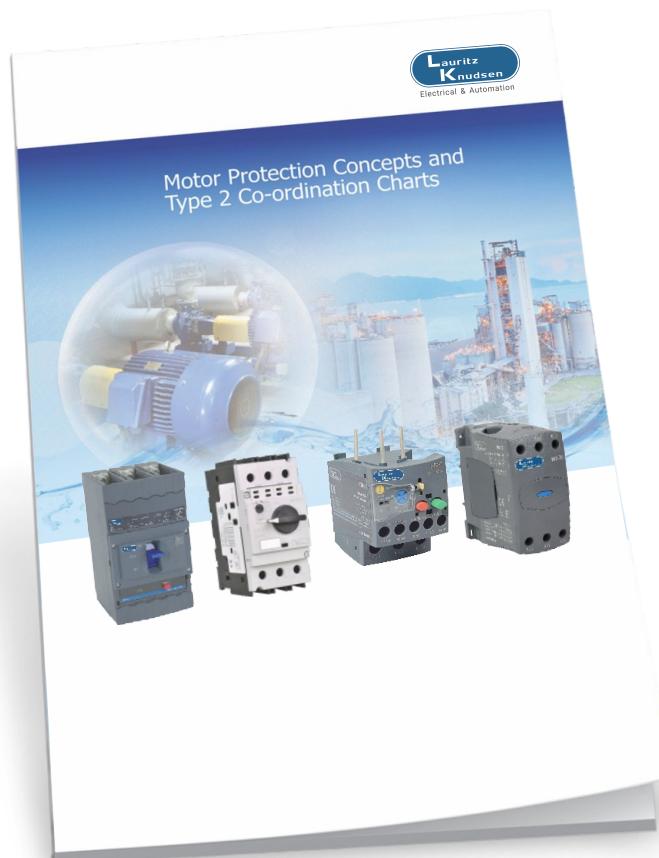
### Following combination of Type 2 Charts available

Fuse Based Charts		Fuseless Charts			
IE2/IE3	IE2/IE3	IE2	IE2	IE3	IE3
DOL	SD	DOL	SD	DOL	SD
FN	FN	MMS/MCCB	MMS/MCCB	MMS/MCCB	MMS/MCCB
MNX/MO	MNX/MO	MNX/MO	MNX/MO	MNX/MO	MNX/MO

Charts available at Iq of

- › 50kA
- › 65kA
- › 80kA
- › 100kA

MCCB charts are available with Microprocessor Releases too



# SMART CONTROLLER

A Complete Solution for  
Smart and Sustainable Farming



AVAILABLE UPTO 75HP



**THEFT  
PROTECTION**

of your Controller,  
Pump and Cable



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PROTECTION**

for all electrical faults  
including dry run



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# DIGITAL SINGLE PHASE CONTROLLER

REDUCE WATER WASTAGE THROUGH AUTOMATION



## MANUAL VERSION

- ▶ Microcontroller Based Solution
- ▶ Dry Run Protection
- ▶ UV/OV Protection
- ▶ Current, Voltage Metering
- ▶ Start & Run Capacitor
- ▶ Bypass Mode
- ▶ OFF Timer
- ▶ Digital Display
- ▶ Capacitor cut-off
- ▶ Automatic Current Setting

## AUTO VERSION

- ▶ All features of Manual Version
- ▶ Inbuilt Water Level Controller
- ▶ WLC bypass feature
- ▶ Auto start capacitor switching
- ▶ Power ON Delay
- ▶ Dry Run Auto Reset Timer, Auto & Manual mode
- ▶ RTC based daily ON/OFF timer
- ▶ Timer count down display
- ▶ Cyclic Timer
- ▶ Time Compensation



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Automatic Solution | Pre-wired | Flexible Settings



## Switch to ATS

Now, experience seamless transfer between two power sources...



### Convenience

- Ample Space for Cable Termination
- Ease of Generator Control (ON-OFF, Cooling Cycle Self-Test)
- Cyclic Event Logger: Logs 100 Events



### Performance

- Wide range: 125A to 630A, 415V ac.
- Double-Break Contact System offering High Short-time Withstand (Icw)
- High Mechanical and Electrical Life: Double than requirement of IS/IEC standard
- Suitable for Aluminum Termination



### Flexibility

- Priority Source Selection
- Adjustable Time Delay (0.1sec to 3 hours)
- Suitable for 3-Phase as well as 1-Phase Sources



### Safety

- Protections: UV/OV, Phase Sequence, Single Phasing, Frequency
- Authorized Access Control through Password Protection
- Terminal Shrouds, Phase Barriers & Source Separator

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Enclosed ATS, Frame 2, 125A	125A	CK90161BS00	89680	1
Enclosed ATS, Frame 2, 160A	160A	CK90162BS00	98960	1
Enclosed ATS, Frame 2, 200A	200A	CK90163BS00	107240	1
Enclosed ATS, Frame 3, 250A	250A	CK90164BS00	122560	1
Enclosed ATS, Frame 3, 315A	315A	CK90165BS00	131060	1
Enclosed ATS, Frame 4, 400A	400A	CK90166BS00	145260	1
Enclosed ATS, Frame 4, 630A	630A	CK90167BS00	176460	1

Chapter ID [8537]

For AuXC 2000 programming videos and more details please scan the QR code or click here



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## On Load Changeover Switch - Disconnectors [8536]

### Changeover Switch-Disconnector (Conforms to IEC 60947-3, IS/IEC 60947-3)

#### Features offered by Manual Changeover

- Range 63A to 2000A, 415V, AC 23A, 4P
- Enclosure version does not require separate cable gland box
- Terminal Shrouds, Source Separator and Phase Barriers included
- Staggered Terminals make cable termination easy
- Suitable for horizontal as well as vertical mounting



#### Features offered by Motorised Changeover

- Range 40 A to 2000A, 415V, AC 23A, 4P (Control Voltage 240 Vac)
- No change in HxWxD dimension of motorised and manual changeover switch
- Padlocking in OFF position
- Option for selection between manual and auto mode

Size	Rated Current (A)	Type	Manual Changeover Open Execution		Manual Changeover In Sheet Steel Enclosure#		Motorised Changeover Open Execution		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	40	CO1-40	-	-	-	-	CK90944B000	25520	1
	63	CO1-63	C0106300000	5670	C0106300SOO	9430	CK90945B000	27090	1
	63	CO1-63	C010630000D ▲	5510					
	100	CO1-100	C0110000000	7630	C0110000SOO	11910	CK90946B000	33080	1
	100	CO1-100	C011000000D ▲	7450					
	125	CO1-125	C0112500000	10140	C0112500SOO	15190	CK90947B000	35180	1
Fr 2	125	CO2-125	C0212500000	12240	C0212500SOO	17520	CK90161B000	47260	1
	160	CO2-160	C0216000000	13420	C0216000SOO	19250	CK90162B000	57780	1
	200	CO2-200	C0220000000A	16510	C0220000SOO	22140	CK90163B000	62990	1
Fr 3	250	CO3-250	C0325000000	21890	C0325000SOO	30610	CK90164B000	76200	1
	315	CO3-315	C0331500000	23020	C0331500SOO	32200	CK90165B000	79730	1
Fr 4	400	CO4-400	C0440000000	34450	C0440000SOO	46940	CK90166B000	94240	1
	630	CO4-630	C0463000000	40230	C0463000SOO	54410	CK90167B000	112490	1
Fr 5	630	CO5-630 α	C0563000000 α	49330	-	-	CK90168B000	122150	1
	800	CO5-800	C0580000000	56960	C0580000SOO	88920	CK90169B000	163360	1
	1000	CO5-1000	C0510000000	105920	C0510000SOO	142600	CK90170B000	214200	1
Fr 6	1250	CO6-1250	C0612500000	133770	-	-	CK90081B000	264680	1
	1600	CO6-1600	C0616000000	167950	-	-	CK90082B000	324900	1
	2000	CO6-2000	C0620000000	244840	-	-	CK90083B000	387510	1

▲ Direct handle version   # Sheet Steel Enclosure version is with CO with extended handle

\* Fuse mounting kit to be purchased separately. Refer below table

Fuse mounting kit CX563000ODO is suitable for mounting on C05-630 Changeover Switch  
Note : Changeovers will be without inbuilt Aux contact and same to be purchased separately as an accessories if required.

### Spares & Accessories for Changeover S-D [8538]



Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (2 sets of C/O contact)	CO1-(63-125A)	CX100020000	530	1
	CO2-(125-200A)	CX200020000	980	1
	CO3-(250-315A)	CX300020000	1400	1
	CO4-(400-630A)	CX400020000	1480	1
	CO5-(630-1000A)	CX500020000	1720	1
	CO6-(1250-2000A)	CX600020000	1870	1
Operating Handle Kit (handle + shaft + center bush + bush clip)	CO1-(63-125A)	CX100010000	870	1
	CO2-(125-200A)	CX300010000	1850	1
	CO3-(250-315A)	CK903920000	1900	1
	CO4-(400-630A)	CX400010000	1940	1
	CO5-(630-1000A)	CX500010000	2090	1
	CO6-(1250-2000A)	CX600010000	2370	1
Castell Type Lock\$	CO-(125-1000A)	CX400040000	3140	1
	CO6-(1250-2000A)	CX600040000	3140	1
Output shorting link	CO1-(63-125A) Top Side	CX10005000T	920	1
	CO1-(63-125A) Bottom Side	CX10005000B	920	1
Operating Handle for Motorised Changeover	C/O Frame 2 & 3 (125-315A)	CK903740000	1660	1
	C/O Frame 4 & 5 (400-1000A)	CK903780000	2090	1
	C/O Frame 6 (1250-2000A)	CK906450000	5190	1

### Automatic Transfer Controllers (ATC) for Motorised Changeover [8538]

AST Controller with wire harness	AuXC-2000 Controller with wire harness	Illuminated Push Button assembly
AST Controller with wire harness	CK901920000	22250
AuXC-2000 Controller** with wire harness	AuXC-2000 <sup>β</sup> wire harness	ATC20000000 33200
Control Accessories	Illuminated Push Button assembly with Wire harness	CK900990000 4540

β Chapter ID [9032]

\*\* Note: For communication version of AuXC controller refer page no-6

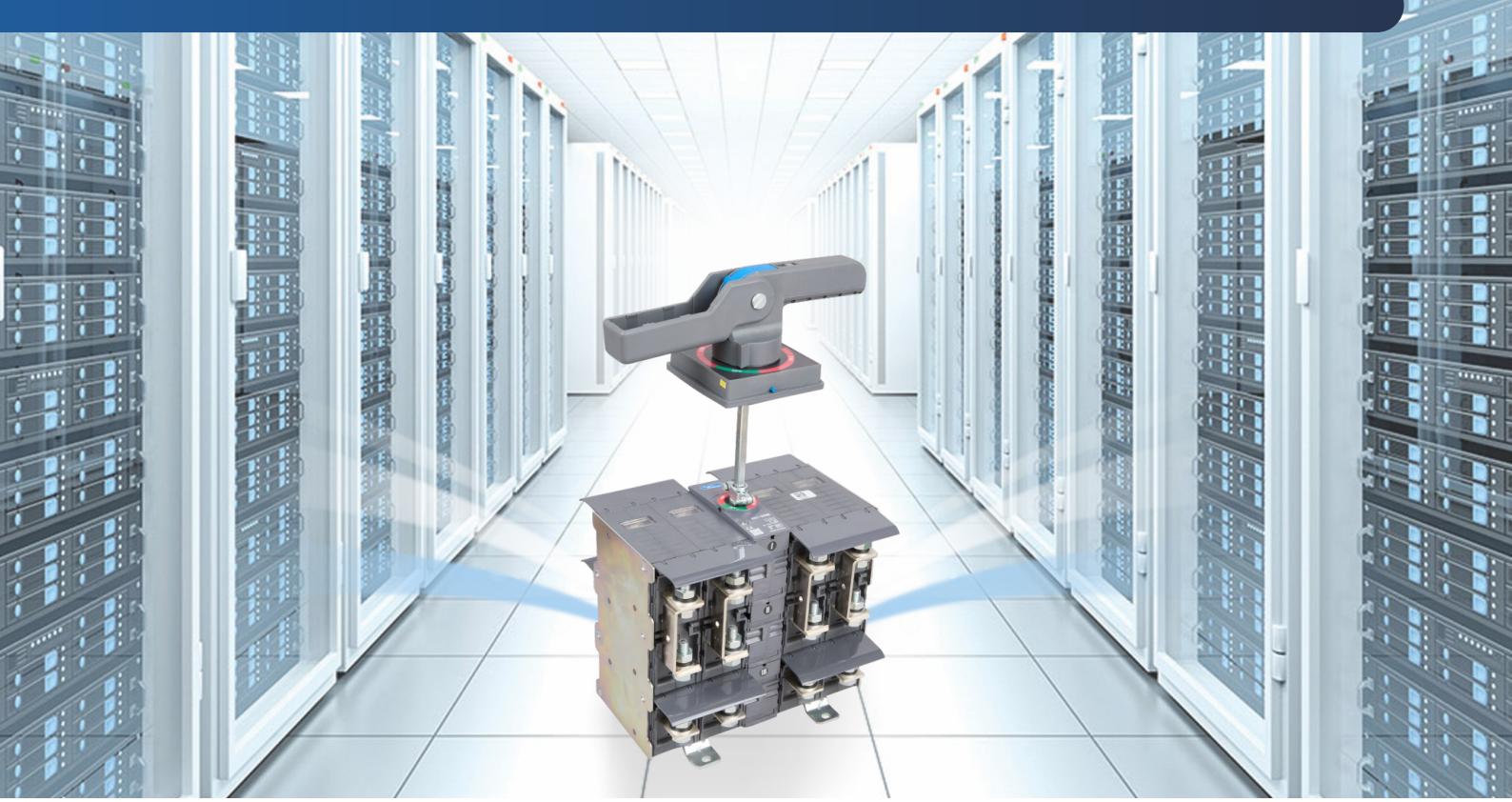


### \*Fuse Mounting Kit [8538]

Description	Suitable fuse-link	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse Mounting Kit	HF 14x51	CO1-63	CX1063000CO	3060	1
	HN Size 000	CO2-125	CX2125000DO	5960	1
	HN Size 00	CO2-160	CX2160000DO	8460	1
	HN Size 1	CO3-250	CX3250000DO	11570	1
	HN Size 1	CO3-315	CX3315000DO	12110	1
	HN Size 2	CO4-400	CX4400000DO	17340	1
	HN Size 3	CO5-630	CX5630000DO	35050	1
	HN Size 3	CO5-800	CX5800000DO	39810	1

\*Available till stock last





## CZ Bypass Switches

### 125A to 630A

Bypass Switches are meant for special application and help to maintain continuity of power supply to the load by simply 'bypassing' UPS or Servo stabilizer. Removal of the UPS or Servo, for maintenance or repair is safe, as it is isolated from both input and output sides in the 'bypass' mode.



#### Time-Saving Convenient solution

No hassle of operating multiple devices for safe and positive isolation on both sides of Servo/UPS



#### Suitable for Aluminum Termination

Entire range is suitable for Aluminum cable/link termination as per the size prescribed by the standards



#### Mounting flexibility

Suitable for mounting in horizontal as well as vertical orientation. Also, the shaft is 'cut-able' and can be adjusted to suit different panel depth requirements.



#### Phase Barriers

Easy to fit and long phase barriers for complete isolation between phases



#### Safety interlock and padlocking

Door interlock is provided in ON position with defeat feature. Also, Bypass Switch can be padlocked in OFF position; upto 3 padlocks can be fitted



#### Finger proof protection (IP30)

Terminal Shrouds provide protection against accidental contact with live terminals. As it is swivellable, there is no need to remove during termination/inspection

4P, Open Execution with extended handle				
Frame	Rating 440Vac, AC 23A	Cat No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	CK908130000	20040	1
CZ1	160A	CK908140000	22610	1
CZ1	200A	CK908150000	23900	1
CZ1	250A	CK908160000	34030	1
CZ1	315A	CK908170000	38810	1
CZ2	315A	CK908750000	42890	1
CZ2	400A	CK908760000	52330	1
CZ2	630A	CK908770000	62360	1

Chapter ID [8536]

Accessories for CZ Bypass switch				
Frame	Description	Cat No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1/ CZ2	Auxiliary Contact Kit* (1 C/O contact)	CK908050000	580	1

Chapter ID [8538]

\* Upto 2 C/O contacts can be installed for status/indication

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# Multiple Applications, One Solution

## CZ Switch Disconnectors



- › Compact 2P, 3P & 4P configurations
- › 1250Vac Insulation Voltage
- › AC-23A @ 690Vac without derating
- › Suitable for 50°C ambient temperature
- › Direct termination without the need of any extended links
- › Extra assurance with visible contact system
- › High electrical and mechanical life (double than requirement in IS/IEC standards)
- › Terminal shrouds and phase barriers are provided as standard offering along with the product
- › Higher ground clearance ensure safety at all times

Versions: Upto 690V

4P AC Switch Disconnector					
Frame	Rating Upto 690V, AC 23A	Handle Type	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	Extended	CK907690000	8160	1
CZ1	160A	Extended	CK907700000	10300	1
CZ1	200A	Extended	CK907710000	12000	1
CZ1	250A	Extended	CK907720000	14150	1
CZ1	315A	Extended	CK907730000	14990	1
CZ2	315A	Extended	CK908570000	16630	1
CZ2	400A	Extended	CK908580000	21280	1
CZ2	630A	Extended	CK908590000	26670	1
CZ1	125A	Direct	CK907990000	7830	1
CZ1	160A	Direct	CK908000000	9850	1
CZ1	200A	Direct	CK908010000	11400	1
CZ1	250A	Direct	CK908020000	13440	1
CZ1	315A	Direct	CK908030000	14230	1
CZ2	315A	Direct	CK908720000	15800	1
CZ2	400A	Direct	CK908730000	20210	1
CZ2	630A	Direct	CK908740000	25340	1

Chapter ID [8536]

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4P AC Switch Disconnector in SS enclosure (with extended handle)				
Frame	Rating Upto 690V, AC 23A	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	CK908190000	14680	1
CZ1	160A	CK908200000	17010	1
CZ1	200A	CK908210000	19200	1
CZ1	250A	CK908220000	21930	1
CZ1	315A	CK908230000	23240	1
CZ2	315A	CK908780000	27710	1
CZ2	400A	CK908790000	32140	1
CZ2	630A	CK908800000	37610	1

Chapter ID [8536]

Accessories for CZ Switch Disconnector

Frame	Description	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1/CZ2	Auxiliary Contact Kit (1 C/O contact)	CK908050000	580	1

Chapter ID [8538]

Notes:

- › 2P and 3P versions are also available. Please contact our nearest branch office for further details
- › Separate versions suitable for DC applications (1000Vdc and 1500Vdc) also available. Please contact our nearest branch office for further details
- › Please refer next page for details on offerings for Solar applications



## CZ Switch Disconnectors - For DC Application

- Designed for tough conditions at **solar sites**
- Separate versions for **800Vac** string inverter systems and upto **1500Vdc** for central inverter systems
- Suitable for Aluminum termination of double the size recommended by IEC standards
- 1250Vac** Rated Insulation Voltage
- Direct termination** without the need of any extended links
- Terminal shrouds and phase barriers are provided as standard offering along with the product

Versions: 800Vac | 1000Vdc | 1500Vdc



### AC SD

- Operational Voltage upto 800Vac



### DC SD

- Operational Voltage 1000Vdc & 1500Vdc

#### DC Switch Disconnectors

Frame	Rating	Voltage	No. of Poles	Description	Cat. No.	M.R.P. (₹) Per Unit
CZ1	125A	1000Vdc	2	Direct Handle, Side operated	CK907930000	*
CZ1	160A	1000Vdc	2	Direct Handle, Side operated	CK907940000	*
CZ1	200A	1000Vdc	2	Direct Handle, Side operated	CK907950000	*
CZ1	250A	1000Vdc	2	Direct Handle, Side operated	CK907960000	*
CZ1	315A	1000Vdc	2	Direct Handle, Side operated	CK907970000	*
CZ2	315A	1000Vdc	2	Direct Handle, Side operated	CK908690000	*
CZ2	400A	1000Vdc	2	Direct Handle, Side operated	CK908700000	*
CZ2	630A	1000Vdc	2	Direct Handle, Side operated	CK908710000	*
CZ1	125A	1500Vdc	2	Direct Handle, Side operated	CK907870000	*
CZ1	160A	1500Vdc	2	Direct Handle, Side operated	CK907880000	*
CZ1	200A	1500Vdc	2	Direct Handle, Side operated	CK907890000	*
CZ1	250A	1500Vdc	2	Direct Handle, Side operated	CK907900000	*
CZ1	315A	1500Vdc	2	Direct Handle, Side operated	CK907910000	*
CZ2	315A	1500Vdc	3	Direct Handle, Side operated	CK908660000	*
CZ2	400A	1500Vdc	3	Direct Handle, Side operated	CK908670000	*
CZ2	630A	1500Vdc	3	Direct Handle, Side operated	CK908680000	*

Chapter ID [8536]

\*Available on Request

#### Customer Interaction Center (CIC)

Phone no: 022-6932 7800

Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

#### 800Vac, 3P Switch Disconnectors

Frame	Rating	Handle Type	Cat. No.	M.R.P. (₹) Per Unit
CZ1	125A	Direct	CK907570000	*
CZ1	160A	Direct	CK907580000	*
CZ1	200A	Direct	CK907590000	*
CZ1	250A	Direct	CK907600000	*
CZ1	315A	Direct	CK907610000	*
CZ2	315A	Direct	CK908510000	*
CZ2	400A	Direct	CK908520000	*
CZ2	630A	Direct	CK908530000	*
CZ1	125A	Extended	CK907630000	*
CZ1	160A	Extended	CK907640000	*
CZ1	200A	Extended	CK907650000	*
CZ1	250A	Extended	CK907660000	*
CZ1	315A	Extended	CK907670000	*
CZ2	315A	Extended	CK908540000	*
CZ2	400A	Extended	CK908550000	*
CZ2	630A	Extended	CK908560000	*

Chapter ID [8536]

#### DC Switch Disconnectors

Frame	Rating	Voltage	No. of Poles	Description	Cat. No.	M.R.P. (₹) Per Unit
CZ2	315A	1500Vdc	2	Direct Handle, Side operated	CK911570000	*
CZ2	400A	1500Vdc	2	Direct Handle, Side operated	CK911580000	*
CZ2	500A	1500Vdc	2	Direct Handle, Side operated	CK911590000	*
CZ2	630A	1500Vdc	2	Direct Handle, Side operated	CK911600000	*
CZ2	315A	1500Vdc	2	Direct Handle, Center operated	CK911610000	*
CZ2	400A	1500Vdc	2	Direct Handle, Center operated	CK911620000	*
CZ2	500A	1500Vdc	2	Direct Handle, Center operated	CK911630000	*
CZ2	630A	1500Vdc	2	Direct Handle, Center operated	CK911640000	*
CZ2	315A	1500Vdc	2	Extended Handle, Side operated	CK911650000	*
CZ2	400A	1500Vdc	2	Extended Handle, Side operated	CK911660000	*
CZ2	500A	1500Vdc	2	Extended Handle, Side operated	CK911670000	*
CZ2	630A	1500Vdc	2	Extended Handle, Side operated	CK911680000	*
CZ2	315A	1500Vdc	2	Extended Handle, Center operated	CK911690000	*
CZ2	400A	1500Vdc	2	Extended Handle, Center operated	CK911700000	*
CZ2	500A	1500Vdc	2	Extended Handle, Center operated	CK911710000	*
CZ2	630A	1500Vdc	2	Extended Handle, Center operated	CK911720000	*
CZ2	315A	1500Vdc	4	Direct Handle, Center operated	CK911770000	*
CZ2	400A	1500Vdc	4	Direct Handle, Center operated	CK911780000	*
CZ2	500A	1500Vdc	4	Direct Handle, Center operated	CK911790000	*
CZ2	630A	1500Vdc	4	Direct Handle, Center operated	CK911800000	*
CZ2	315A	1500Vdc	4	Extended Handle, Center operated	CK911850000	*
CZ2	400A	1500Vdc	4	Extended Handle, Center operated	CK911860000	*
CZ2	500A	1500Vdc	4	Extended Handle, Center operated	CK911870000	*
CZ2	630A	1500Vdc	4	Extended Handle, Center operated	CK911880000	*

Chapter ID [8536]

\*Available on Request



## Switch-Disconnector Units [8536]

### Type FN & C-Line Switch Disconnector (2P/TPN/4P)



**FN 2P S-D**



**FN TPN S-D**

#### Features offered by S-D

- › Range 32A to 2000A, 415V, AC 23A
- › Conforms to IEC 60947-3, IS/IEC 60947-3
- › Door interlock & padlock facility

- › Telescopic shaft for depth adjustment
- › Flip-able handle 1000A and above
- › Terminal shrouds on both sides

Size	Rated Current (A)	Open Execution 2P S-D			Std. Pkg. (Nos.)	Open Execution TPN S-D*			Std. Pkg. (Nos.)
		Type	Cat. No.	M.R.P. (₹) Per Unit		Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	FN 32 2P	SK904180000	2400	1	FN 32 TPN / 4P	SK955410000	3020	1
	63	FN 63 2P	SK904190000	2750	1	FN 63 TPN / 4P	SK955400000	3540	1
Fr 2	100	FN 100 2P	SK904200000	4950	1	FN 100 TPN	SK955710000	6390	1
	125	FN 125 2P	SK904210000	6200	1	FN 125 TPN	SK954050000	8060	1
Fr 3	200	FN 200 2P	SK904500000	10170	1	FN 200 TPN	SK956070000	12550	1
	250	FN 250 2P	SK904540000	11140	1	FN 250 TPN	SK956830000	14310	1
Fr 4	315	FN 315 2P	SK904650000	15390	1	FN 315 TPN	SK956090000	17400	1
	400	FN 400 2P	SK904660000	16220	1	FN 400 TPN	SK956100000	20170	1
Fr 5	630	FN 630 2P	SK904670000	26000	1	FN 630 TPN	SK956110000	31660	1
	800	FN 800 2P	SK904680000	27900	1	FN 800 TPN	SK955510000	33950	1
	1000	FN 1000 2P	SK904690000	35960	1	FN 1000 TPN	SK957100000	52300	1
Fr 6	1000	-	-	-	-	C-Line SD 1000 4P\$	COS10000040	60320	1
	1250	-	-	-	-	C-Line SD 1250 4P\$	COS12500040	75190	1
	1600	-	-	-	-	C-Line SD 1600 4P\$	COS16000040	95620	1
	2000	-	-	-	-	C-Line SD 2000 4P\$	COS20000040	125330	1

\$ For C-Line SD 3P (1000A to 2000A), please contact nearest branch office

\* For Switched Neutral Pole in FN TPN S-D, order Switched Neutral Kit separately.

Refer 'Spares & Accessories for type FN' table

### Spares & Accessories for type FNX [8538]

	<b>Castell Type Lock</b>	<b>DIN Rail Assembly</b>	<b>Auxiliary Contact Kit</b>	<b>Handle Assembly</b>
Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	FNX 32 / 63	SK91537	*	1
<b>Auxiliary Contact Kit (1NO + 1 NC)</b>	FNX 100	SK91538	*	1
	FNX 125 / 160	SK91539	*	1
	FNX 200 / 250	SK91540	*	1
	FNX 315 / 400 / 630 / 800	SK91541	*	1
<b>Handle Assembly</b>	FNX 32 / 63 / 100	SK91524	*	1
	FNX 125 / 160 / 200 / 250	SK91525	*	1
	FNX 315 / 400 / 630 / 800	SK91526	*	1
<b>Castell Type Lock\$</b>	FNX 32 / 63 / 100	SK91530	*	1
	FNX 125 / 160 / 200 / 250	SK91531	*	1
	FNX 315 / 400 / 630 / 800	SK91531	*	1
<b>DIN Rail Assembly</b>	FNX 32 / 63 / 100	SK91617	*	1

\* Available on request

	<b>Fuse pulling handle [8538]</b>	<b>For Type HN fuse-link</b>	<b>For Type HF fuse-link</b>
Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse pulling handle for HF Fuse-link from 2A-63A	SK91185	270	1
Insulated fuse pulling handle for Type HN fuse-link from 63A-800A	SF90126	940	1

### Spares & Accessories for type COS Switch-Disconnector [8538]

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (1 sets of C/O contact)	CXS6002	1110	1
Operating Handle	CXS6001	2380	1
Castell Type Lock\$	CX60004	3150	1

**Chapter ID [8301]** # Also suitable for Switch-Disconnector FN 1000

Notes: 1) Add suffix "0000" to all cat nos. of Spares and Accessories.

### Spares & Accessories for type FN [8538]

	<b>Handle Assembly</b>	<b>Earthing Link</b>	<b>Switched Neutral Kit</b>	<b>Auxiliary Contact Kit</b>
	<b>Castell Type Lock</b>			
Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	FN 32 / 63	SK91302	660	1
<b>Auxiliary Contact Kit (1NO + 1 NC)</b>	FN 100 / 125 / 160	SK91328	800	1
	FN 200 / 250	SK91329	1070	1
	FN 315 / 400 / 630	SK91330	1130	1
	FN 800	CK91034#	1130	1
<b>2<sup>nd</sup> Aux. Contact (1NO + 1NC)</b>	FN 32 / 63	SK90670	720	1
	FN 100 to FN 1000	SK90696	830	1
<b>Earthing Link</b>	FN 32 to FN 1000@	CK90396	660	1
	FN 32 / 63	SK91190	230	1
<b>Terminal Shroud Kit</b>	FN 100 / 125 / 160	SK91137	280	1
	FN 200 / 250	SK91335	810	1
	FN 315 / 400	SK91346	830	1
	FN 630 / 800	SK91347#	870	1
<b>Handle Assembly - A</b>	FN 32 / 63	SK91257	630	1
	FN 100 to FN 250	SK91258	1340	1
	FN 315 / 400 / 630 / 800	SK91259#	1480	1
<b>Handle Assembly - B</b>	FN 32 / 63	SK91277	630	1
	FN 100 to FN 250	SK91278	1340	1
	FN 315 / 400 / 630 / 800	SK91279#	1480	1
<b>Handle Assembly - CE</b>	FN 32 / 63	SK91337	370	1
	FN 200	SK91343	570	1
	FN 315 / 400	SK91344	590	1
<b>Interphase Barrier Kit</b>	FN 630 / 800	SK91345#	610	1
	A	SK00333	3150	1
	B	SK00334	3150	1
	C	SK00335	3150	1
<b>Castell Type Lock\$</b>	D	SK00336	3150	1
	A	SK00345#	3150	1
	B	SK00346#	3150	1
	C	SK00347#	3150	1
<b>Switched Neutral Kit</b>	D	SK00348#	3150	1
	FN 100 / 125 / 160	SK95233	6060	1
	FN 200 / 250	SK95516	6460	1
	FN 315 / 400	SK95517	6980	1
	FN 630 / 800	SK95546#	9700	1

@For terminating earth busbar upto 25mm width. Order Qty 1 for 10 earthing links

Lauritz Knudsen, 01.10.2025

## Switch-Disconnector-Fuse Units [8537]

### Type TPN S-D-F suitable for DIN fuse-link (TPN & FP) in open execution

#### Features offered by FN S-D-F

- › Range 32A to 800A, 415V, AC 23A
- › Conforms to IEC 60947-3, IS/IEC 60947-3
- › Terminal Shrouds on both sides and Phase Barriers included
- › Telescopic shaft for depth adjustment
- › TPN SDF has isolable neutral
- › 4P SDF has Switched Neutral Pole and is 100% rated
- › Door interlock & padlock facility



**FN - TPN S-D-F  
(Open Execution)**



**FN - 4P S-D-F  
(Open Execution)**

in-built  
Neutral Link



Size	Rated Current (A)	Suitable HRC fuse-link		Open Execution Type FN (TPN) S-D-F suitable for DIN fuse-link			Std. Pkg. (Nos.)	Open Execution Type FN S-D-F suitable for DIN fuse-link (4P)			Std. Pkg. (Nos.)
		Type	Range (A)	Type	Cat. No.	M.R.P. (₹) Per Unit		Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF Size 14x51	2 to 32	FN 32 TPN / FP	SK95518	3090	1	FN 32 TPN/FP	SK95518	3090	1
	32	HF Size 14x51	2 to 32	FN 32 TPN / FP CE*	SK95703*	2680	1	FN 32 TPN/FP CE*	SK95703*	2680	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP	SK95421	4070	1	FN 63 TPN/FP	SK95421	4070	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP CE*	SK95704*	3630	1	FN 63 TPN/FP CE*	SK95704*	3630	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	SK95568	7570	1	FN 100 FP	SK90496	8850	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	SK95001	9810	1	FN 125 FP	SK90497	11020	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	SK95713	10560	1	FN 160 FP	SK90498	12340	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	SK95418	14250	1	FN 200 FP	SK90471	17630	1
	250	HN Size 1	125 to 250	FN 250 TPN	SK95642	16590	1	FN 250 FP	SK90472	19970	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	SK95461	19860	1	FN 315 FP	SK90473	24240	1
	400	HN Size 2	200 to 400	FN 400 TPN	SK95481	24240	1	FN 400 FP	SK90480	27490	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	SK95521	40530	1	FN 630 FP	SK90481	46340	1
	800	HN Size 3	315 to 800	FN 800 TPN	SK95679	43630	1	FN 800 FP	SK90482	52650	1

\* 'CE' handle has door interlock facility without defeat feature

### FN- TPN S-D-F in SS Enclosure

#### Features offered by FN S-D-F in SS Enclosure:

- › Range 32A to 800A, 415V, AC 23A
- › Spacious Sheet Steel Enclosure
- › Separate cable gland box not required
- › Terminal Shrouds on both sides and Phase Barriers included
- › Conforms to IEC 60947-3, IS/IEC 60947-3
- › Suitable for Cylindrical/DIN fuse-link
- › Door interlock & padlock facility



**FN - TPN S-D-F in SS Enclosure**

Size	Rated Current (A)	Suitable HRC fuse-link		In Sheet Steel Enclosure Type FN (TPN) S-D-F suitable for DIN fuse-link			Std. Pkg. (Nos.)
		Type	Range (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF Size 14x51	2 to 32	FN 32 TPN / FP CE*	SK90483*	7260	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP CE*	SK90484*	8680	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	SK90485	13980	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	SK90486	15860	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	SK90487	16630	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	SK90488	24010	1
	250	HN Size 1	125 to 250	FN 250 TPN	SK90489	26460	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	SK90490	30720	1
	400	HN Size 2	200 to 400	FN 400 TPN	SK90491	34510	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	SK90492	53860	1
	800	HN Size 3	315 to 800	FN 800 TPN	SK90493	57220	1

\* 'CE' handle has door interlock facility without defeat feature

#### Notes:

- 1) Type FN S-D-F range (Bolted fuse-link) suitable for harsh environment is also available. Please contact nearest branch office for further details
- 2) For 690V AC application, please contact nearest branch office
- 3) The prices for S-D-F range are without HRC fuses
- 4) The SDF units in SS enclosure version can be replaced with FN TPN SDF open execution units. Please refer point 5 for replacement of 250A unit
- 5) For replacement of FN 250 SDF unit in sheet steel enclosure version (Cat. No. SK904890000 & SK956810000), order Cat. No. ST978950000
- 6) Please refer Page 36 for Switch-Disconnectors
- 7) Add suffix "0000" to all cat nos.



## HRC Fuses [8536]

### Features offered by HRC fuse link

- Conforms to IEC 60269-2, IS 13703 part 2
- Range: 2A to 800A, 415V, AC 50Hz
- Type: Cylindrical (2A to 63A), DIN (63A to 800A) & Bolted (2A to 630A)
- High breaking capacity: 100kA for type HN and 80kA for type HF/HG/HQ

### Cylindrical fuse links Type HF

HF



Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
14 X 51	2	Suitable for Type FN 32 / 63 / FNX 32 / 63 S-D-F & for HCO 32 Fuse base	SF90144	170	30
	4		SF90145	170	30
	6		SF90146	170	30
	8		SF90147	170	30
	10		SF90148	170	30
	16		SF90150	170	30
	20		SF90151	170	30
	25		SF90152	170	30
	32		SF90142	170	30
	40		SF90143	180	30
	50		SF90158	400	30
	63		SF90159	450	30

### DIN Type Fuse Links Type HN

000



00



0



1



2



3



Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
000	63	Suitable for Type FN 100/125/160 / FNX 100/125/160 S-D-F & for HB 160 Fuse base	SF94940	500	3
	80		SF94941	530	3
	100		SF94942	540	3
	125		SF94946	610	3
00	63	Suitable for Type FN 100/125/160 / FNX 125/160 S-D-F & for HB 160 Fuse base	SF94027	660	3
	80		SF94028	660	3
	100		SF94029	660	3
	125		SF94030	660	3
	160		SF94939	680	3
0	80	Suitable for Type FN 200 / FNX 200 S-D-F & for HB 250 Fuse base	SF94128	840	3
	100		SF94129	840	3
	125		SF94130	840	3
	160		SF94131	850	3
	200		SF94132	890	3
1	125	Suitable for Type FN 250/315 / FNX 250/315 S-D-F & for HB 250 Fuse base	SF94230	870	3
	160		SF94231	930	3
	200		SF94232	930	3
	250		SF94233	1040	3
	315		SF94234	1260	3
2	200	Suitable for Type FN 400 / FNX 400 S-D-F & for HB 800 Fuse base	SF94332	1310	3
	250		SF94333	1350	3
	315		SF94334	1390	3
	400		SF94335	1410	3
3	315	Suitable for Type FN 630/800 / FNX 630/800 S-D-F & for HB 800 Fuse base	SF94434	1960	1
	400		SF94435	2070	1
	500		SF94436	2130	1
	630		SF94437	2240	1
	800		SF94938	2770	1

### Fuse holders & Fuse bases suitable for Cylindrical / DIN fuse-links



Rated Current (A)	Type	Description	Suitable fuse-link		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
			Type	Range (A)			
32	HCO 32	Fuse holder	HF	2-32	SK91314	330	10
63	HC 63	Fuse holder	HF	2-63	SK91043	380	10
160	HB 160	Fuse base	HN-Size 000 & 00	63-160	SK90405	500	12
250	HB 250	Fuse base	HN-Size 0 & 1	80-250	SK90406	1100	3
800	HB 800	Fuse base	HN-Size 2 & 3	200-800	SK91051	2160	3

Notes : 1) Add suffix "0000" to all cat nos.

## Switch-Disconnector-Fuse Units [8537]

### Type FN S-D-F suitable for DIN fuse-link (2P) in open execution

#### Features offered by FN S-D-F

- Range 32A to 630A, 415V, AC 23A
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Terminal Shrouds on both sides and Phase Barriers included**
- Telescopic shaft for depth adjustment
- Door interlock & padlock facility

Also for 220Vdc &  
240Vac application



FN 2P S-D-F



FN - TPN S-D-F

Size	Rated Current (A)	Suitable fuse-link type	Type FN (2P) S-D-F suitable for DIN fuse-link				Std. Pkg (Nos.)	
			Open Execution					
			Type	Cat. No.	M.R.P. (₹) Per Unit			
Fr 1	32	HF Size 14x51	FN 32 2P	SK95594	2410	1		
	63	HF Size 14x51	FN 63 2P	SK95595	3220	1		
Fr 2	100	HN Size 000/00	FN 100 2P	ST35086	6080	1		
	125	HN Size 000/00	FN 125 2P	ST35087	8200	1		
	160	HN Size 000/00	FN 160 2P	ST35088	8550	1		
Fr 3	200	HN Size 0	FN 200 2P	ST35089	11130	1		
	250	HN Size 1	FN 250 2P	ST31674	12930	1		
Fr 4	315	HN Size 1	FN 315 2P	ST38930	16010	1		
	400	HN Size 2	FN 400 2P	ST31676	18030	1		
Fr 5	630	HN Size 3	FN 630 2P	ST35090	31100	1		

\*Add suffix "0000" to all cat nos.

### \*\*Type FNX S-D-F suitable for DIN fuse-link in open execution

#### Features offered by FNX S-D-F

- Range 32A to 800A, 415V, AC 23A
- TPN and 4P version
- Suitable for Cylindrical / DIN fuse-link
- Telescopic shaft for depth adjustment
- DIN rail mounting up to 100A
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Door interlock & padlock facility
- FNX 4-Pole with in-built Neutral Link

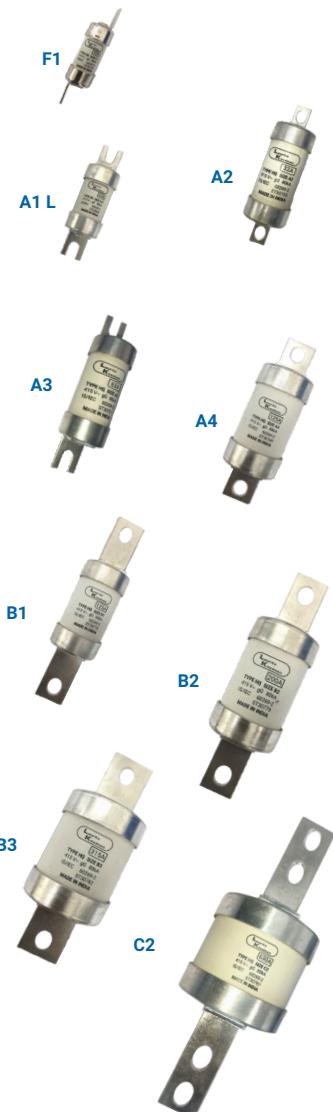


Size	Rated Current (A)	Suitable fuse-link type	Range (A)	Open Execution Type FNX (TPN) S-D-F suitable for DIN fuse-link				Open Execution Type FNX (4P) S-D-F suitable for DIN fuse-link				Std. Pkg. (Nos.)
				Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	
Fr 1	32	HF Size 14x51	2 to 32	FNX 32 TPN / FP	SK96903	*	1	FNX 32 TPN / FP	SK96903	*	1	
	63	HF Size 14x51	2 to 63	FNX 63 TPN / FP	SK96904	*	1	FNX 63 TPN / FP	SK96904	*	1	
Fr 2	100	HN Size 000	63 to 100	FNX 100 TPN / FP	SK96906	*	1	FNX 100 TPN / FP	SK96906	*	1	
Fr 3	125	HN Size 000/00	63 to 125	FNX 125 TPN	SK95806	*	1	FNX 125 FP	SK95814	*	1	
	160	HN Size 000/00	63 to 160	FNX 160 TPN	SK95807	*	1	FNX 160 FP	SK95815	*	1	
Fr 4	200	HN Size 0	80 to 200	FNX 200 TPN	SK95808	*	1	FNX 200 FP	SK95816	*	1	
	250	HN Size 1	125 to 250	FNX 250 TPN	SK95809	*	1	FNX 250 FP	SK95817	*	1	
Fr 5	315	HN Size 1	125 to 315	FNX 315 TPN	SK95810	*	1	FNX 315 FP	SK95818	*	1	
	400	HN Size 2	200 to 400	FNX 400 TPN	SK95811	*	1	FNX 400 FP	SK95819	*	1	
Fr 6	630	HN Size 3	315 to 630	FNX 630 TPN	SK95812	*	1	FNX 630 FP	SK95820	*	1	
	800	HN Size 3	315 to 800	FNX 800 TPN	SK95813	*	1	FNX 800 FP	SK95821	*	1	

\*Available on request     \*\*Available till stock last

#### Notes:

- For 690V AC application, please contact nearest branch office.
- The prices for S-D-F range are without HRC fuses
- Add suffix "0000" to all cat nos.



## Bolted fuse links: Type HG and HQ

Type	Fixing Method	Size	Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HG	Offset, staggered	F1	2	Suitable for type HD 20H/20P/20B, HD 32H/32P/32B fuse base	ST30725	70	24
			4		ST30726	70	24
			6		ST30727	70	24
			10		ST30728	70	24
			16		ST30729	80	24
			20		ST30730	80	24
			25		ST30731	80	24
			32		ST30732	80	24
			20	Suitable for type FN 32/63 S-D-F	ST34527	140	15
HQ	Offset	A1L	25		ST34528	140	15
			32		ST34529	140	15
			50		ST35827	170	15
			63		ST35828	170	15
		A2	4	Suitable for type HK 32H/32B fuse base	ST30747	120	12
			6		ST30748	120	12
			10		ST30749	120	12
			16		ST30750	120	12
			20		ST30751	120	12
			25		ST30752	120	12
	Centre Tag, 2 holes	A3	32	Suitable for type HK 63B/63H Fuse base	ST30753	120	12
			35		ST30759	180	12
			50		ST30760	200	12
		A4	63		ST30761	210	12
			80	Suitable for type FN 100/125/160 S-D-F & for HK 125H/125B Fuse base	ST30767	390	12
			100		ST30768	390	12
			125		ST30769	440	12
			160		ST35829	500	12
	Centre Tag, 4 holes	B1	80	Suitable for type FN 200 S-D-F	ST30774	440	12
			100		ST30775	440	12
			125		ST30776	520	12
		B2	125	Suitable for type FN 200/250 S-D-F	ST30777	540	3
			160		ST30778	560	3
			200		ST30779	600	3
		B3	250	Suitable for type FN 250/315 S-D-F	ST30781	880	3
			315		ST30782	920	3
		B4	355	Suitable for type FN 400 S-D-F	ST30783	1300	3
			400		ST30784	1340	3
			400	Suitable for type FN 630 S-D-F	ST30785	2520	1
		C2	500		ST30786	2660	1
			630		ST30787	3040	1

## Fuse holders suitable for Bolted fuse-links



Rated Current (A)	Type	Connection Method	Fuse Type	Suitable Fuse Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
20	HD 20H	Both side cable (Front)	F1	2-20	ST30772	200	12
	HD 20P	Both side busbar (Back)	F1	2-20	ST30773	290	12
	HD 20B	Top busbar & bottom cable	F1	2-20	ST30766	270	12
32	HD 32H	Both side cable (Front)	F1	2-32	ST30733	220	12
	HD 32P	Both side busbar (Back)	F1	2-32	ST30734	290	12
	HD 32B	Top busbar & bottom cable	F1	2-32	ST30735	280	12
	HK 32H	Both side cable (Front)	A2	4-32	ST30754	360	12
63	HK 32B	Top busbar & bottom cable	A2	4-32	ST30755	440	12
	HK 63H	Both side cable (Front)	A3	35-63	ST30762	470	6
	HK 63B	Top busbar & bottom cable	A3	35-63	ST30763	560	6
125	HK 125H	Both side cable (Front)	A4	80-125	ST30770	1330	3
	HK 125B	Top busbar & bottom cable	A4	80-125	ST30771	1540	3

Notes: 1) Add suffix "0000" to all cat nos.



## FEATURES TO MEET EVERY APPLICATION

**Thermal - Magnetic Release**

- › Extended Overload Setting of 67%
- › 16A to 800A Offering
- › Ambient Temperature Compensation
- › Suitable for wide temperature range

**Contact System**

- › Double Break with low let-through energy
- › High Breaking Capacity up to 200kA @ 415V AC
- › 100kA @ 690V AC at 100% Ics
- › 50kA @ 800V AC offering for Solar PV String inverters
- › 1000V/1500V PV DC Offering

**Mechanism**

- › Class II Front Facia
- › Double Insulation
- › Positive Isolation
- › High Electrical and Mechanical Life

**Microprocessor Release**

- › Extended Overload Setting of 25%
- › Individual Fault Indication LEDs
- › Battery Operated In-built Display
- › Advanced Metering and Protection
- › Motor Protection Variant with effective Type 2 Coordination

**Modular Architecture**

- › Compact Size
- › Late Personalization
- › Interchangeability of Releases
- › Reduced Inventory for internal accessories

**Modules**

- › Temperature Monitoring & Protection
- › Zone Selective Interlocking for effective Selectivity
- › Communication Module for metering & control
- › Remote Operation for Motorized MCCB
- › Breaker Status, Alarm & Trip with Records

## FUTURE READY FOR COMPLIANCE AND NEW APPLICATIONS





**DZ MCCB Range [8536]**

## RESILIENT FOR BETTER SAFETY AND MAINTENANCE

### Inventory & Application friendly Internal Accessories



### Robust Rotary & Electrically Operated Mechanisms



### Reduced Downtime with Plug-in & Drawout Modules



### Shrouds for increased personnel safety



### Multiple options for Mechanical Interlocking



### Versatile Range of Terminations



## CONNECTED TO DRIVE ENERGY EFFICIENCY



Data Analytics

Trend Analysis

Real Time Monitoring

Status & Control

Metering & Protection

Data Acquisition



## DZ With Thermal - Magnetic Release

Rating (A) Icu=Ics (kA)*	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400	500	630	800
25											DZ0-125C							
36											DZ0-125D							
36/50											DZ1							
36/50/80/120											DZ2							
36/50/80/120/200												DZ4						
36/50/80/120/200												DZ6					DZ7	



- › Conforms to IS/IEC 60947-2
- › 16A to 125A, 3P & 4P
- › 25kA & 36kA breaking capacities
- › Ics = 100% of Icu\*
- › Adjustable overload settings: 0.8 - 1.0 x In
- › Fixed short-circuit settings: 10 x In
- › Compact size
- › Manual and Rotary versions available
- › Wide range of accessories

dsine-DZ0 TM

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ0-125D*	13-16	36kA	DZ0T0016D5C1A0000	10500	DZ0F0016D5C1A0000	14600	1
	16-20		DZ0T0020D5C1A0000	10500	DZ0F0020D5C1A0000	14600	1
	20-25		DZ0T0025D5C1A0000	10500	DZ0F0025D5C1A0000	14600	1
	26-32		DZ0T0032D5C1A0000	10500	DZ0F0032D5C1A0000	14600	1
	32-40		DZ0T0040D5C1A0000	10500	DZ0F0040D5C1A0000	14600	1
	40-50		DZ0T0050D5C1A0000	10500	DZ0F0050D5C1A0000	14600	1
	50-63		DZ0T0063D5C1A0000	10200	DZ0F0063D5C1A0000	14200	1
	64-80		DZ0T0080D5C1A0000	10200	DZ0F0080D5C1A0000	14200	1
	80-100		DZ0T0100D5C1A0000	10200	DZ0F0100D5C1A0000	14200	1
	100-125		DZ0T0125D5C1A0000▲	13200	DZ0F0125D5C1A0000▲	17700	1
DZ0-125C	13-16	25kA	DZ0T0016CXC1A0000	10800	DZ0F0016CXC1A0000	15200	1
	16-20		DZ0T0020CXC1A0000	10800	DZ0F0020CXC1A0000	15200	1
	20-25		DZ0T0025CXC1A0000	10800	DZ0F0025CXC1A0000	15200	1
	26-32		DZ0T0032CXC1A0000	10800	DZ0F0032CXC1A0000	15200	1
	32-40		DZ0T0040CXC1A0000	10800	DZ0F0040CXC1A0000	15200	1
	40-50		DZ0T0050CXC1A0000	10800	DZ0F0050CXC1A0000	15200	1
	50-63		DZ0T0063CXC1A0000	10500	DZ0F0063CXC1A0000	14700	1
	64-80		DZ0T0080CXC1A0000	10500	DZ0F0080CXC1A0000	14700	1
	80-100		DZ0T0100CXC1A0000	10500	DZ0F0100CXC1A0000	14700	1
	100-125		DZ0T0125CXC1A0000▲	14500	DZ0F0125CXC1A0000▲	18300	1

▲- Spreader Terminals are included

Note:

Breaking Capacity: C = 25kA, D = 36kA

\*DZ0-125D : Ics = 50% Icu

Phase barriers are supplied with all MCCBs





## DZ With Thermal - Magnetic Release



dsine-DZ1 TM

- › Conforms to IS/IEC 60947-2
- › 16A to 800A, 3P & 4P
- › 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- › Ics= 100% of Icu
- › Adjustable overload settings: 0.67 - 1.0 x In
- › Adjustable short-circuit settings: 6 - 12 x In\*
- › Transparent sealable release cover
- › Compact size
- › Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- › Wide range of accessories

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D/ DZ1-200D	11-16	36kA	DZ1T0016DXC1A0000	13000	DZ1F0016DXC1A0000	16100	1
	14-20		DZ1T0020DXC1A0000	13000	DZ1F0020DXC1A0000	16100	1
	17-25		DZ1T0025DXC1A0000	13000	DZ1F0025DXC1A0000	16100	1
	22-32		DZ1T0032DXC1A0000	13000	DZ1F0032DXC1A0000	16100	1
	27-40		DZ1T0040DXC1A0000	13000	DZ1F0040DXC1A0000	16100	1
	34-50		DZ1T0050DXC1A0000	13000	DZ1F0050DXC1A0000	16100	1
	43-63		DZ1T0063DXD1A0000	12500	DZ1F0063DXD1A0000	15600	1
	54-80		DZ1T0080DXD1A0000	12500	DZ1F0080DXD1A0000	15600	1
	67-100		DZ1T0100DXD1A0000	12500	DZ1F0100DXD1A0000	15600	1
	84-125		DZ1T0125DXD1A0000	14100	DZ1F0125DXD1A0000	17400	1
	108-160		DZ1T0160DXD1A0000	18500	DZ1F0160DXD1A0000	22000	1
	134-200		DZ1T0200DXD1A0000▲	31000	DZ1F0200DXD1A0000▲	39000	1
DZ2-160D	11-16		DZ2T0016DXC1A0000	15500	DZ2F0016DXC1A0000	19400	1
	14-20		DZ2T0020DXC1A0000	15500	DZ2F0020DXC1A0000	19400	1
	17-25		DZ2T0025DXC1A0000	15500	DZ2F0025DXC1A0000	19400	1
	22-32		DZ2T0032DXC1A0000	15500	DZ2F0032DXC1A0000	19400	1
	27-40		DZ2T0040DXC1A0000	15500	DZ2F0040DXC1A0000	19400	1
	34-50		DZ2T0050DXC1A0000	15500	DZ2F0050DXC1A0000	19400	1
	43-63		DZ2T0063DXD1A0000	15000	DZ2F0063DXD1A0000	18800	1
	54-80		DZ2T0080DXD1A0000	15000	DZ2F0080DXD1A0000	18800	1
	67-100		DZ2T0100DXD1A0000	15000	DZ2F0100DXD1A0000	18800	1
	84-125		DZ2T0125DXD1A0000	16900	DZ2F0125DXD1A0000	20900	1
	108-160		DZ2T0160DXD1A0000	22100	DZ2F0160DXD1A0000	26400	1
DZ4-250D	108-160	36kA	DZ4T0160DXD1A0000	29800	DZ4F0160DXD1A0000	36800	1
	134-200		DZ4T0200DXD1A0000	34200	DZ4F0200DXD1A0000	41100	1
	168-250		DZ4T0250DXD1A0000	36000	DZ4F0250DXD1A0000	43300	1
DZ6-400D	134-200	36kA	DZ6T0200DXD1A0000	44500	DZ6F0200DXD1A0000	54300	1
	168-250		DZ6T0250DXD1A0000	47700	DZ6F0250DXD1A0000	58300	1
	215-320		DZ6T0320DXD1A0000	49300	DZ6F0320DXD1A0000	60200	1
	268-400		DZ6T0400DXD1A0000	49300	DZ6F0400DXD1A0000	60200	1
DZ7-800D	335-500	36kA	DZ7T0500DXD1A0000	55400	DZ7F0500DXD1A0000	69800	1
	422-630		DZ7T0630DXD1A0000	55400	DZ7F0630DXD1A0000	69800	1
	536-800		DZ7T0800DXD1A0000	77200	DZ7F0800DXD1A0000	98300	1

▲- Spreader Terminals are included

## Note:

Breaking Capacity: D = 36kA, N = 50kA, H = 80kA

dsine DZ-120kA &amp; 200kA @415V (Ics=100% Icu) MCCBs are available on request.

It is recommended to use spreader terminals for enhancing termination capacity

For Motor back-up protection, use 'M' series of MCCBs such as DZ0-N, DZ1-N, DZ4-N, DZ6-N, DZ7-N

\* For DZ1 &amp; DZ2 - 16A to 50A, Fixed Magnetic setting (375A)

For DZ7 630A / 800A, Magnetic setting from 6 In to 10 In / 6 In to 8 In respectively





# DZ MCCB Range [8536]



Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P.(₹) Per Unit	Cat No	M.R.P.(₹) Per Unit	
DZ1-160N/ DZ1-200N	11-16	50kA	DZ1T0016NXC1A0000	17300	DZ1F0016NXC1A0000	20800	1
	14-20		DZ1T0020NXC1A0000	17300	DZ1F0020NXC1A0000	20800	1
	17-25		DZ1T0025NXC1A0000	17300	DZ1F0025NXC1A0000	20800	1
	22-32		DZ1T0032NXC1A0000	17300	DZ1F0032NXC1A0000	20800	1
	27-40		DZ1T0040NXC1A0000	17300	DZ1F0040NXC1A0000	20800	1
	34-50		DZ1T0050NXC1A0000	17300	DZ1F0050NXC1A0000	20800	1
	43-63		DZ1T0063NXd1A0000	16800	DZ1F0063NXd1A0000	20200	1
	54-80		DZ1T0080NXd1A0000	16800	DZ1F0080NXd1A0000	20200	1
	67-100		DZ1T0100NXd1A0000	16800	DZ1F0100NXd1A0000	20200	1
	84-125		DZ1T0125NXd1A0000	22100	DZ1F0125NXd1A0000	24400	1
	108-160		DZ1T0160NXd1A0000	24000	DZ1F0160NXd1A0000	28700	1
	134-200		DZ1T0200NXd1A0000▲	35500	DZ1F0200NXd1A0000▲	44500	1
	11-16		DZ2T0016NXC1A0000	20800	DZ2F0016NXC1A0000	25000	1
	14-20		DZ2T0020NXC1A0000	20800	DZ2F0020NXC1A0000	25000	1
DZ2-160N	17-25		DZ2T0025NXC1A0000	20800	DZ2F0025NXC1A0000	25000	1
	22-32		DZ2T0032NXC1A0000	20800	DZ2F0032NXC1A0000	25000	1
	27-40		DZ2T0040NXC1A0000	20800	DZ2F0040NXC1A0000	25000	1
	34-50		DZ2T0050NXC1A0000	20800	DZ2F0050NXC1A0000	25000	1
	43-63		DZ2T0063NXd1A0000	20200	DZ2F0063NXd1A0000	24300	1
	54-80		DZ2T0080NXd1A0000	20200	DZ2F0080NXd1A0000	24300	1
	67-100		DZ2T0100NXd1A0000	20200	DZ2F0100NXd1A0000	24300	1
	84-125		DZ2T0125NXd1A0000	26500	DZ2F0125NXd1A0000	29300	1
	108-160		DZ2T0160NXd1A0000	28800	DZ2F0160NXd1A0000	34400	1
DZ4-250N	108-160	80kA	DZ4T0160NXd1A0000	34300	DZ4F0160NXd1A0000	43300	1
	134-200		DZ4T0200NXd1A0000	37400	DZ4F0200NXd1A0000	46900	1
	168-250		DZ4T0250NXd1A0000	39400	DZ4F0250NXd1A0000	49400	1
DZ6-400N	134-200		DZ6T0200NXd1A0000	45600	DZ6F0200NXd1A0000	56400	1
	168-250		DZ6T0250NXd1A0000	48000	DZ6F0250NXd1A0000	59400	1
	215-320		DZ6T0320NXd1A0000	49600	DZ6F0320NXd1A0000	61300	1
	268-400		DZ6T0400NXd1A0000	49600	DZ6F0400NXd1A0000	61300	1
DZ7-800N	335-500	80kA	DZ7T0500NXd1A0000	60400	DZ7F0500NXd1A0000	78000	1
	422-630		DZ7T0630NXd1A0000	60400	DZ7F0630NXd1A0000	78000	1
	536-800		DZ7T0800NXd1A0000	81500	DZ7F0800NXd1A0000	103700	1
DZ2-160H	11-16		DZ2T0016HXC1A0000	25600	DZ2F0016HXC1A0000	32500	1
	14-20		DZ2T0020HXC1A0000	25600	DZ2F0020HXC1A0000	32500	1
	17-25		DZ2T0025HXC1A0000	25600	DZ2F0025HXC1A0000	32500	1
	22-32		DZ2T0032HXC1A0000	25600	DZ2F0032HXC1A0000	32500	1
	27-40		DZ2T0040HXC1A0000	25600	DZ2F0040HXC1A0000	32500	1
	34-50		DZ2T0050HXC1A0000	25600	DZ2F0050HXC1A0000	32500	1
	43-63		DZ2T0063HXd1A0000	24800	DZ2F0063HXd1A0000	31600	1
	54-80		DZ2T0080HXd1A0000	24800	DZ2F0080HXd1A0000	31600	1
	67-100		DZ2T0100HXd1A0000	24800	DZ2F0100HXd1A0000	31600	1
	84-125		DZ2T0125HXd1A0000	42500	DZ2F0125HXd1A0000	47000	1
	108-160		DZ2T0160HXd1A0000	45300	DZ2F0160HXd1A0000	50700	1
DZ4-250H	108-160		DZ4T0160HXd1A0000	46900	DZ4F0160HXd1A0000	52400	1
	134-200		DZ4T0200HXd1A0000	54500	DZ4F0200HXd1A0000	65600	1
	168-250		DZ4T0250HXd1A0000	56800	DZ4F0250HXd1A0000	68300	1
DZ6-400H	134-200	80kA	DZ6T0200HXd1A0000	61300	DZ6F0200HXd1A0000	72500	1
	168-250		DZ6T0250HXd1A0000	63200	DZ6F0250HXd1A0000	74800	1
	215-320		DZ6T0320HXd1A0000	63900	DZ6F0320HXd1A0000	75600	1
	268-400		DZ6T0400HXd1A0000	63900	DZ6F0400HXd1A0000	75600	1
DZ7-800H	335-500	80kA	DZ7T0500HXd1A0000	76100	DZ7F0500HXd1A0000	90700	1
	422-630		DZ7T0630HXd1A0000	76100	DZ7F0630HXd1A0000	90700	1
	536-800		DZ7T0800HXd1A0000	89400	DZ7F0800HXd1A0000	116800	1





## DZ MCCB Range [8536]



### DZ MCCB with Microprocessor Release

Rating (A) Icu (kA)	40	63	100	160	200	250	400	630	800	1000
36/50						DZ1				
36/50/80/120						DZ2				
36/50/80/120/200						DZ4		DZ4		
36/50/80/120/200								DZ6		DZ7



### DZ MCCB with Microprocessor Release iTRP1



dsine-DZ iTRP1

- › Conforms to IS/IEC 60947-2
- › 16A to 1000A, 3P & 4P
- › 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- › Ics=100% Icu
- › Adjustable overload setting from 0.25 to 1.0 x In
- › Adjustable short-circuit setting from 1.5 to 12 x Ir\*
- › Switchable thermal memory
- › Variable trip class
- › Transparent sealable release cover
- › Compact size
- › Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- › Wide range of accessories

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D <sup>#</sup> / DZ1-200D	10-40	36kA	DZ1T0040DXF1A0000	23900	DZ1F0040DXF1A0000	29200	1
	16-63		DZ1T0063DXF1A0000	23900	DZ1F0063DXF1A0000	29200	1
	25-100		DZ1T0100DXF1A0000	23900	DZ1F0100DXF1A0000	29200	1
	40-160		DZ1T0160DXF1A0000	28200	DZ1F0160DXF1A0000	39300	1
	50-200		DZ1T0200DXF1A0000 ▲	39300	DZ1F0200DXF1A0000 ▲	54400	1
DZ2-160D <sup>#</sup>	10-40	36kA	DZ2T0040DXF1A0000	28800	DZ2F0040DXF1A0000	35100	1
	16-63		DZ2T0063DXF1A0000	28800	DZ2F0063DXF1A0000	35100	1
	25-100		DZ2T0100DXF1A0000	28800	DZ2F0100DXF1A0000	35100	1
	40-160		DZ2T0160DXF1A0000	33900	DZ2F0160DXF1A0000	47100	1
DZ4-250D	40-160	50kA	DZ4T0160DXF1A0000	40800	DZ4F0160DXF1A0000	56800	1
	63-250		DZ4T0250DXF1A0000	42500	DZ4F0250DXF1A0000	58900	1
DZ6-400D	63-250	50kA	DZ6T0250DXF1A0000	49700	DZ6F0250DXF1A0000	64400	1
	100-400		DZ6T0400DXF1A0000	52300	DZ6F0400DXF1A0000	67700	1
DZ7-800D/ DZ7-1000D	158-630	50kA	DZ7T0630DXF1A0000	59000	DZ7F0630DXF1A0000	76500	1
	200-800		DZ7T0800DXF1A0000	84000	DZ7F0800DXF1A0000	104000	1
	250-1000		DZ7T1000DXF1A0000 ▲	132400	DZ7F1000DXF1A0000 ▲	183600	1
DZ1-160N <sup>#</sup> / DZ1-200N	10-40	50kA	DZ1T0040NXF1A0000	27700	DZ1F0040NXF1A0000	38300	1
	16-63		DZ1T0063NXF1A0000	27700	DZ1F0063NXF1A0000	38300	1
	25-100		DZ1T0100NXF1A0000	27700	DZ1F0100NXF1A0000	38300	1
	40-160		DZ1T0160NXF1A0000	34900	DZ1F0160NXF1A0000	45700	1
	50-200		DZ1T0200NXF1A0000 ▲	46300	DZ1F0200NXF1A0000 ▲	58700	1
DZ2-160N <sup>#</sup>	10-40	50kA	DZ2T0040NXF1A0000	33300	DZ2F0040NXF1A0000	46000	1
	16-63		DZ2T0063NXF1A0000	33300	DZ2F0063NXF1A0000	46000	1
	25-100		DZ2T0100NXF1A0000	33300	DZ2F0100NXF1A0000	46000	1
	40-160		DZ2T0160NXF1A0000	41800	DZ2F0160NXF1A0000	54800	1





## DZ MCCB Range [8536]



### DZ MCCB with Microprocessor Release iTRP1

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ4-250N	40-160	50kA	DZ4T0160NXF1A0000	48600	DZ4F0160NXF1A0000	62200	1
	63-250		DZ4T0250NXF1A0000	50100	DZ4F0250NXF1A0000	63500	1
DZ6-400N	63-250		DZ6T0250NXF1A0000	54400	DZ6F0250NXF1A0000	70900	1
	100-400		DZ6T0400NXF1A0000	57200	DZ6F0400NXF1A0000	74600	1
DZ7-800N/ DZ7-1000N	158-630		DZ7T0630NXF1A0000	64000	DZ7F0630NXF1A0000	81900	1
	200-800		DZ7T0800NXF1A0000	94400	DZ7F0800NXF1A0000	120100	1
	250-1000		DZ7T1000NXF1A0000▲	161800	DZ7F1000NXF1A0000▲	224400	1
DZ2-160H*	10-40	80kA	DZ2T0040HXF1A0000	38900	DZ2F0040HXF1A0000	48400	1
	16-63		DZ2T0063HXF1A0000	38900	DZ2F0063HXF1A0000	48400	1
	25-100		DZ2T0100HXF1A0000	38900	DZ2F0100HXF1A0000	48400	1
	40-160		DZ2T0160HXF1A0000	50800	DZ2F0160HXF1A0000	63600	1
DZ4-250H	40-160		DZ4T0160HXF1A0000	53600	DZ4F0160HXF1A0000	67100	1
	63-250		DZ4T0250HXF1A0000	60100	DZ4F0250HXF1A0000	82600	1
DZ6-400H	63-250		DZ6T0250HXF1A0000	70100	DZ6F0250HXF1A0000	92600	1
	100-400		DZ6T0400HXF1A0000	73800	DZ6F0400HXF1A0000	97400	1
DZ7-800H/ DZ7-1000H	158-630		DZ7T0630HXF1A0000	78600	DZ7F0630HXF1A0000	114500	1
	200-800		DZ7T0800HXF1A0000	111300	DZ7F0800HXF1A0000	145500	1
	250-1000		DZ7T1000HXF1A0000▲	182600	DZ7F1000HXF1A0000▲	264200	1

▲- Spreader Terminals are included

\* For DZ7 630A / 800A & 1000A: Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively

# For 25A, please contact nearest branch office

#### Note:

Breaking Capacity: D = 36kA, N = 50kA, H = 80kA

dsine DZ-120kA & 200kA @415V (Ics=100% Icu) MCCBs are available on request.

It is recommended to use spreader terminals for enhancing termination capacity

dsine DZ Selectivity Version MCCBs are available on request.



dsine-DZ iTRP3

- › Conforms to IS/IEC 60947-2
- › 16A to 1000A, 3P & 4P
- › 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- › Ics=100% Icu
- › Adjustable overload setting from 0.25 to 1.0 x In
- › Adjustable short-circuit setting from 1.5 to 12 x Ir\*
- › Adjustable Instantaneous setting, 6 In & 12 In
- › Inbuilt ground fault protection from 20% to 70% of In
- › Adjustable neutral overload protection from 50% to 200% of Ir
- › Switchable thermal memory
- › Provision for release testing
- › Individual fault indication LEDs
- › Transparent sealable release cover
- › Compact size
- › Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- › Wide range of accessories





## DZ MCCB Range [8536]



### DZ MCCB with Microprocessor Release iTRP3

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D <sup>#</sup> / DZ1-200D	10-40	36kA	DZ1T0040DXH1A0000	39800	DZ1F0040DXH1A0000	46400	1
	16-63		DZ1T0063DXH1A0000	39800	DZ1F0063DXH1A0000	46400	1
	25-100		DZ1T0100DXH1A0000	39800	DZ1F0100DXH1A0000	46400	1
	40-160		DZ1T0160DXH1A0000	45800	DZ1F0160DXH1A0000	56400	1
	50-200		DZ1T0200DXH1A0000 ▲	58000	DZ1F0200DXH1A0000 ▲	71200	1
DZ2-160D <sup>#</sup>	10-40	36kA	DZ2T0040DXH1A0000	47800	DZ2F0040DXH1A0000	55700	1
	16-63		DZ2T0063DXH1A0000	47800	DZ2F0063DXH1A0000	55700	1
	25-100		DZ2T0100DXH1A0000	47800	DZ2F0100DXH1A0000	55700	1
	40-160		DZ2T0160DXH1A0000	54900	DZ2F0160DXH1A0000	67600	1
DZ4-250D	40-160	36kA	DZ4T0160DXH1A0000	58400	DZ4F0160DXH1A0000	71800	1
	63-250		DZ4T0250DXH1A0000	60900	DZ4F0250DXH1A0000	74800	1
DZ6-400D	63-250	36kA	DZ6T0250DXH1A0000	68500	DZ6F0250DXH1A0000	79300	1
	100-400		DZ6T0400DXH1A0000	72000	DZ6F0400DXH1A0000	83500	1
DZ7-800D/ DZ7-1000D	158-630	36kA	DZ7T0630DXH1A0000	78900	DZ7F0630DXH1A0000	95600	1
	200-800		DZ7T0800DXH1A0000	105800	DZ7F0800DXH1A0000	125700	1
	250-1000		DZ7T1000DXH1A0000 ▲	154100	DZ7F1000DXH1A0000 ▲	203500	1
DZ1-160N <sup>#</sup> / DZ1-200N	10-40	50kA	DZ1T0040NXH1A0000	44100	DZ1F0040NXH1A0000	52600	1
	16-63		DZ1T0063NXH1A0000	44100	DZ1F0063NXH1A0000	52600	1
	25-100		DZ1T0100NXH1A0000	44100	DZ1F0100NXH1A0000	52600	1
	40-160		DZ1T0160NXH1A0000	52400	DZ1F0160NXH1A0000	62800	1
	50-200		DZ1T0200NXH1A0000 ▲	65600	DZ1F0200NXH1A0000 ▲	79700	1
DZ2-160N <sup>#</sup>	10-40	50kA	DZ2T0040NXH1A0000	52900	DZ2F0040NXH1A0000	63100	1
	16-63		DZ2T0063NXH1A0000	52900	DZ2F0063NXH1A0000	63100	1
	25-100		DZ2T0100NXH1A0000	52900	DZ2F0100NXH1A0000	63100	1
	40-160		DZ2T0160NXH1A0000	62900	DZ2F0160NXH1A0000	75400	1
DZ4-250N	40-160	50kA	DZ4T0160NXH1A0000	66000	DZ4F0160NXH1A0000	80500	1
	63-250		DZ4T0250NXH1A0000	68500	DZ4F0250NXH1A0000	83700	1
DZ6-400N	63-250	50kA	DZ6T0250NXH1A0000	72000	DZ6F0250NXH1A0000	85800	1
	100-400		DZ6T0400NXH1A0000	75800	DZ6F0400NXH1A0000	90300	1
DZ7-800N/ DZ7-1000N	158-630	50kA	DZ7T0630NXH1A0000	83900	DZ7F0630NXH1A0000	108000	1
	200-800		DZ7T0800NXH1A0000	129400	DZ7F0800NXH1A0000	153600	1
	250-1000		DZ7T1000NXH1A0000 ▲	188400	DZ7F1000NXH1A0000 ▲	248600	1
DZ2-160H <sup>#</sup>	10-40	80kA	DZ2T0040HXH1A0000	63000	DZ2F0040HXH1A0000	74900	1
	16-63		DZ2T0063HXH1A0000	63000	DZ2F0063HXH1A0000	74900	1
	25-100		DZ2T0100HXH1A0000	63000	DZ2F0100HXH1A0000	74900	1
	40-160		DZ2T0160HXH1A0000	75000	DZ2F0160HXH1A0000	83600	1
DZ4-250H	40-160	80kA	DZ4T0160HXH1A0000	79100	DZ4F0160HXH1A0000	91200	1
	63-250		DZ4T0250HXH1A0000	90500	DZ4F0250HXH1A0000	106600	1
DZ6-400H	63-250	80kA	DZ6T0250HXH1A0000	97300	DZ6F0250HXH1A0000	121800	1
	100-400		DZ6T0400HXH1A0000	102500	DZ6F0400HXH1A0000	128200	1
DZ7-800H/ DZ7-1000H	158-630	80kA	DZ7T0630HXH1A0000	111000	DZ7F0630HXH1A0000	152500	1
	200-800		DZ7T0800HXH1A0000	149000	DZ7F0800HXH1A0000	186000	1
	250-1000		DZ7T1000HXH1A0000 ▲	230000	DZ7F1000HXH1A0000 ▲	298300	1

▲- Spreader Terminals are included

\* For DZ7 630A / 800A & 1000A: Magnetic setting from 1.5 ln to 10 ln / 1.5 ln to 8 ln respectively

# For 25A, please contact nearest branch office

#### Note:

Breaking Capacity : D = 36kA, N = 50kA, H = 80kA

dsine DZ 120kA & 200kA @415V (Ics=100% Icu) MCCBs are available on request.

It is recommended to use spreader terminals for enhancing termination capacity

dsine DZ Selectivity Version MCCBs are available on request.





Rating (A) Icu (kA)	40	63	100	160	200	250	400	630	800	1000
				DZ1 <sup>s</sup>						
36/50/80/120		DZ2								
36/50/80/120/200			DZ4			DZ4				
36/50/80/120/200						DZ6			DZ7	

<sup>s</sup> iTRP4 Only

### **d sine DZ MCCB with Microprocessor Releases iTRP4 & iTRP5**

- › Confirms to IS/IEC 60947-2
- › 16A to 1000A, 3P & 4P
- › 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- › Ics=100% Icu
- › Adjustable Overload Settings from 0.25 to 1 In (in steps of 0.01)
- › Adjustable Short Circuit Settings from 1.5 to 12 Ir (in steps of 0.1)
- › Adjustable Instantaneous Settings from 1.5 to 12 Ir (in steps of 0.1)
- › In-built Ground Fault Protection from 0.1 to 1 In (in steps of 0.05)
- › Adjustable Neutral Overload Protection from 50% to 160% of Ir
- › Local LCD Display Menu Navigation using Keypad
- › Modbus RTU Communication Capable
- › Switchable Thermal Memory
- › Provision for Release Testing
- › Variable trip class
- › Transparent sealable release cover
- › Compact size
- › Wide range of accessories

**Advance Metering  
Solution**



### **Measurement & Diagnostics**

- › Advanced Current based protection function via iTRP4 Release
- › Advanced Energy based protection function via iTRP5 Release
- › I<sup>2</sup>T, SI, LI-VI based over load curves
- › Advanced Protections like Maximum Demand, Phase Sequence, THD etc
- › Common Fault Indication and Diagnostic LED
- › Self, Auxiliary and Battery Mode
- › Trip & Event Records available
- › Communication module for remote monitoring & control
- › Temperature module with thermal sensors for online temperature monitoring
- › Zone Selective Interlocking (ZSI) module for system level coordination of faults

### **Accessories for iTRP4 & iTRP5 [8538]**

Modules	Details
Communication Module	
Temperature Module (with Thermal Sensors)	*
Zone Selective Interlocking Module	
Programmable Relay Module	

\* On request





## DZ MCCB Range [8536]



### DZ MCCBs for Motor back-up Protection

- Range: 16A to 800A, 50kA
- Suitable for isolation
- Wide Range of snap fit Internal and External Accessories

3 Pole					
Type	Current Rating (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DZ0-125N	32	50kA	DZ0T0032N5M1A0000	7160	1
	40		DZ0T0040N5M1A0000	7160	1
	63		DZ0T0063N5M1A0000	7160	1
	80		DZ0T0080N5M1A0000	7160	1
	100		DZ0T0100N5M1A0000	7160	1
	125		DZ0T0125N5M1A0000 ▲	9270	1
DZ1-160N/ DZ1-200N	32	50kA	DZ1T0032NXM1A0000	9370	1
	40		DZ1T0040NXM1A0000	9370	1
	63		DZ1T0063NXM1A0000	9290	1
	80		DZ1T0080NXM1A0000	9290	1
	100		DZ1T0100NXM1A0000	9290	1
	125		DZ1T0125NXM1A0000	9450	1
	160		DZ1T0160NXM1A0000	11200	1
	200		DZ1T0200NXM1A0000 ▲	20800	1
DZ4-250N	250		DZ4T0250NXM1A0000	24700	1
DZ6-400N	320	50kA	DZ6T0320NXM1A0000	31200	1
	400		DZ6T0400NXM1A0000	32700	1
DZ7-800N	500	50kA	DZ7T0500NXM1A0000	36100	1
	630		DZ7T0630NXM1A0000	38400	1
	800		DZ7T0800NXM1A0000	40000	1

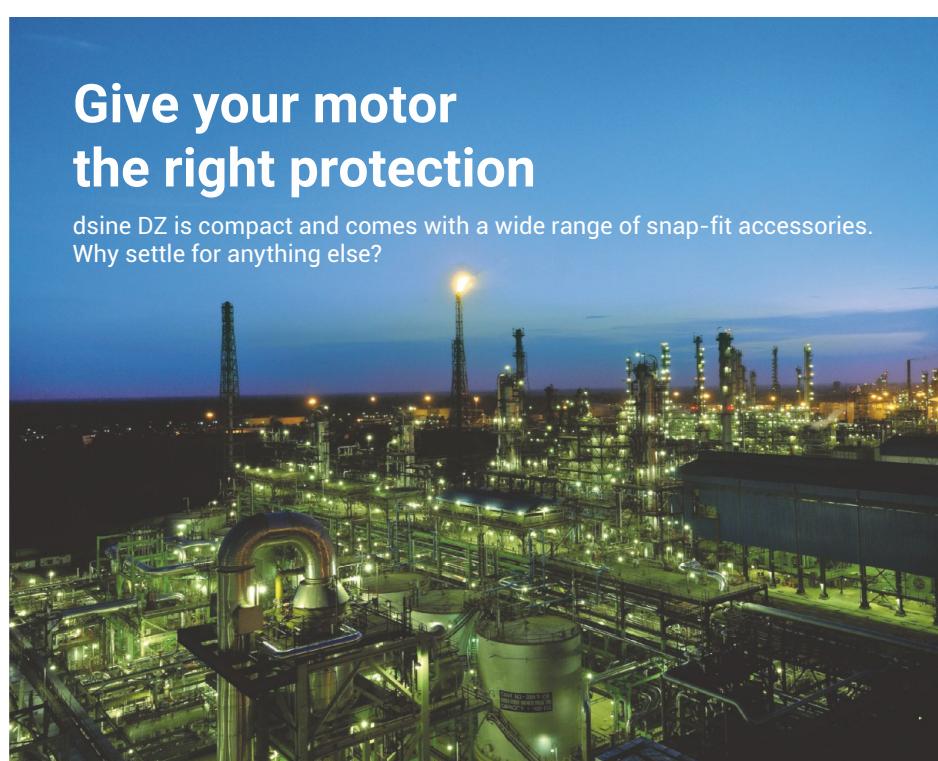
▲- Spreader Terminals are included

#### Note:

Please contact nearest branch office for Fuseless Type 2 Co-ordination selection charts.

For Microprocessor based Motor back-up Protection MCCBs, please contact nearest branch office.

For lower HP Motors, Please select MMS. Details are given on page no.21



## Give your motor the right protection

dsine DZ is compact and comes with a wide range of snap-fit accessories.  
Why settle for anything else?



**d sine -DZ**





## DZ 800V MCCB Range [8536]

New

Rating (A)	200	250	320	400	500	630
Icu (kA) @ 800V						
25/36/50				DZ6		
36/50					DZ7	



d sine-DZ TM

- Conforms to IS/IEC 60947-2
- 200A to 630A, 3P/4P
- 25kA, 36kA & 50kA @800V breaking capacities
- Rated insulation voltage: 1250V AC rms
- Adjustable overload settings: 0.67 - 1.0 x In
- Adjustable short-circuit settings: 6 - 12 x In\*\*
- Transparent sealable release cover
- Ambient Temperature Compensation
- High Electrical & Mechanical life\*\*\*
- Manual and Rotary versions available
- Wide range of accessories

## d sine DZ 800V with Thermal - Magnetic Release

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	134-200	25kA	DZ6T0200WXD1A0000	*	DZ6F0200WXD1A0000	*	1
	168-250		DZ6T0250WXD1A0000		DZ6F0250WXD1A0000		1
DZ6-400Y	134-200	36kA	DZ6T0200YXD1A0000	*	DZ6F0200YXD1A0000	*	1
	168-250		DZ6T0250YXD1A0000		DZ6F0250YXD1A0000		1
	214-320		DZ6T0320YXD1A0000		DZ6F0320YXD1A0000		1
	268-400		DZ6T0400YXD1A0000		DZ6F0400YXD1A0000		1
DZ7-800Y	335-500		DZ7T0500YXD1A0000		DZ7F0500YXD1A0000		1
	422-630		DZ7T0630YXD1A0000		DZ7F0630YXD1A0000		1
DZ6-400Z	134-200	50kA	DZ6T0200Z8D1A0000	*	DZ6F0200Z8D1A0000	*	1
	168-250		DZ6T0250Z8D1A0000		DZ6F0250Z8D1A0000		1
	214-320		DZ6T0320Z8D1A0000		DZ6F0320Z8D1A0000		1
	268-400		DZ6T0400Z8D1A0000		DZ6F0400Z8D1A0000		1
DZ7-800Z	335-500		DZ7T0500ZXD1A0000		DZ7F0500ZXD1A0000		1
	422-630		DZ7T0630ZXD1A0000		DZ7F0630ZXD1A0000		1

\* Price on request

\*\* For DZ 630A - Magnetic setting from 6 In to 10 In

\*\*\* Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)

### General Information

- Ambient temperature compensation in MCCBs helps prevent nuisance tripping by adjusting for temperature variations that affect the thermal elements. High ambient temperatures can cause premature tripping, while low temperatures may delay it. This is most suitable for Solar application.





## DZ 800V MCCB Range [8536]



Rating (A) Icu (kA) @ 800V	125	160	200	250	320	400	500	630	800
25/36/50				DZ6					
36/50							DZ7		



dsine-DZ iTRP1

- Conforms to IS/IEC 60947-2
- 125A to 800A, 3P/4P
- 25kA, 36kA & 50kA @800V breaking capacities
- Rated insulation voltage: 1250V AC rms
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir\*\*
- Switchable thermal memory
- Variable trip class
- Transparent sealable release cover
- Ambient Temperature Compensation
- High Electrical & Mechanical life\*\*\*
- Manual and Rotary versions available
- Wide range of accessories

### d sine DZ 800V with Microprocessor Release iTRP1

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	31-125	25kA	DZ6T0125WXF1A0000	*	DZ6F0125WXF1A0000	*	1
	40-160		DZ6T0160WXF1A0000		DZ6F0160WXF1A0000		1
	50-200		DZ6T0200WXF1A0000		DZ6F0200WXF1A0000		1
	63-250		DZ6T0250WXF1A0000		DZ6F0250WXF1A0000		1
	80-320		DZ6T0320WXF1A0000		DZ6F0320WXF1A0000		1
	100-400		DZ6T0400WXF1A0000		DZ6F0400WXF1A0000		1
DZ6-400Y	31-125	36kA	DZ6T0125YXF1A0000	*	DZ6F0125YXF1A0000	*	1
	40-160		DZ6T0160YXF1A0000		DZ6F0160YXF1A0000		1
	50-200		DZ6T0200YXF1A0000		DZ6F0200YXF1A0000		1
	63-250		DZ6T0250YXF1A0000		DZ6F0250YXF1A0000		1
	80-320		DZ6T0320YXF1A0000		DZ6F0320YXF1A0000		1
	100-400		DZ6T0400YXF1A0000		DZ6F0400YXF1A0000		1
DZ7-800Y	125-500		DZ7T0500YXF1A0000	*	DZ7F0500YXF1A0000	*	1
	156-630		DZ7T0630YXF1A0000		DZ7F0630YXF1A0000		1
	200-800		DZ7T0800YXF1A0000		DZ7F0800YXF1A0000		1
DZ6-400Z	31-125	50kA	DZ6T0125Z8F1A0000	*	DZ6F0125Z8F1A0000	*	1
	40-160		DZ6T0160Z8F1A0000		DZ6F0160Z8F1A0000		1
	50-200		DZ6T0200Z8F1A0000		DZ6F0200Z8F1A0000		1
	63-250		DZ6T0250Z8F1A0000		DZ6F0250Z8F1A0000		1
	80-320		DZ6T0320Z8F1A0000		DZ6F0320Z8F1A0000		1
	100-400		DZ6T0400Z8F1A0000		DZ6F0400Z8F1A0000		1
DZ7-800Z	125-500		DZ7T0500ZXF1A0000	*	DZ7F0500ZXF1A0000	*	1
	156-630		DZ7T0630ZXF1A0000		DZ7F0630ZXF1A0000		1
	200-800		DZ7T0800ZXF1A0000		DZ7F0800ZXF1A0000		1

\* Price on request

\*\* For DZ7 630A / 800A, Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively

\*\*\* Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)





## DZ 800V MCCB Range [8536]



Rating (A) Icu (kA) @ 800V	200	250	320	400	500	630	800
25/36/50				DZ6			
36/50						DZ7	



dsine-DZ iTRP3

- › Conforms to IS/IEC 60947-2
- › 125A to 800A, 3P/4P
- › 25kA, 36kA & 50kA @800V breaking capacities
- › Rated insulation voltage: 1250V AC rms
- › Adjustable overload setting from 0.25 to 1.0 x In
- › Adjustable short-circuit setting from 1.5 to 12 x Ir\*\*
- › Adjustable Instantaneous setting, 6 In & 12 In
- › Inbuilt ground fault protection from 20% to 70% of In
- › Adjustable neutral overload protection from 50% to 200% of Ir
- › Switchable thermal memory
- › Variable trip class
- › Individual fault indication LEDs
- › Transparent sealable release cover
- › Ambient Temperature Compensation
- › High Electrical & Mechanical life\*\*\*
- › Manual and Rotary versions available
- › Wide range of accessories

### d sine DZ 800V with Microprocessor Release iTRP3

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	50-200	25kA	DZ6T0200WXH1A0000	*	DZ6F0200WXH1A0000	*	1
	63-250		DZ6T0250WXH1A0000		DZ6F0250WXH1A0000		1
	80-320		DZ6T0320WXH1A0000		DZ6F0320WXH1A0000		1
	100-400		DZ6T0400WXH1A0000		DZ6F0400WXH1A0000		1
DZ6-400Y	50-200	36kA	DZ6T0200YXH1A0000	*	DZ6F0200YXH1A0000	*	1
	63-250		DZ6T0250YXH1A0000		DZ6F0250YXH1A0000		1
	80-320		DZ6T0320YXH1A0000		DZ6F0320YXH1A0000		1
	100-400		DZ6T0400YXH1A0000		DZ6F0400YXH1A0000		1
DZ7-800Y	125-500	50kA	DZ7T0500YXH1A0000	*	DZ7F0500YXH1A0000	*	1
	156-630		DZ7T0630YXH1A0000		DZ7F0630YXH1A0000		1
	200-800		DZ7T0800YXH1A0000		DZ7F0800YXH1A0000		1
DZ6-400Z	50-200	50kA	DZ6T0200Z8H1A0000	*	DZ6F0200Z8H1A0000	*	1
	63-250		DZ6T0250Z8H1A0000		DZ6F0250Z8H1A0000		1
	80-320		DZ6T0320Z8H1A0000		DZ6F0320Z8H1A0000		1
	100-400		DZ6T0400Z8H1A0000		DZ6F0400Z8H1A0000		1
DZ7-800Z	125-500	50kA	DZ7T0500ZXH1A0000	*	DZ7F0500ZXH1A0000	*	1
	156-630		DZ7T0630ZXH1A0000		DZ7F0630ZXH1A0000		1
	200-800		DZ7T0800ZXH1A0000		DZ7F0800ZXH1A0000		1

\* Price on request

\*\* For DZ7 630A / 800A, Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively

\*\*\* Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)



# Accessories for d sine DZ MCCBs [8538]

New



Auxiliary Contact  
Trip Alarm Contact



Shunt Release



UV Release

Internal Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Auxillary Contact/ Trip Alarm Contact [8538]</b>			
DZ0 Aux/TAC 1 C/o	EM909660000	745	1
DZ1/2/4 Aux/TAC 1 C/o	EM901100000	1170	1
DZ6/7 Aux/TAC 1 C/o	EM901140000	1270	1
<b>Shunt Release [8538]</b>			
DZ0 Shunt 110/240/415V AC	EM905200M00	1005	1
DZ1/2/4 Shunt 415V AC	EM900320P00	3100	1
DZ1/2/4 Shunt 240V AC	EM900320B00	3100	1
DZ1/2/4 Shunt 110V AC	EM900320A00	3100	1
DZ1/2/4 Shunt 48V AC	EM900320J00	3100	1
DZ1/2/4 Shunt 24V AC	EM900320G00	3100	1
DZ1/2/4 Shunt 220V DC	EM900320200	3100	1
DZ1/2/4 Shunt 110V DC	EM900320100	3100	1
DZ1/2/4 Shunt 48V DC	EM900320500	3100	1
DZ1/2/4 Shunt 24V DC	EM900320400	3100	1
DZ1/2/4 Shunt 12V DC	EM900320300	3100	1
DZ6/7 Shunt 415V AC	EM900340P00	3480	1
DZ6/7 Shunt 240V AC	EM900340B00	3480	1
DZ6/7 Shunt 110V AC	EM900340E00	3480	1
DZ6/7 Shunt 48V AC	EM900340J00	3480	1
DZ6/7 Shunt 24V AC	EM900340G00	3480	1
DZ6/7 Shunt 220V DC	EM900340200	3480	1
DZ6/7 Shunt 110V DC	EM900340100	3480	1
DZ6/7 Shunt 48V DC	EM900340500	3480	1
DZ6/7 Shunt 24V DC	EM900340400	3480	1
DZ6/7 Shunt 12V DC	EM900340300	3480	1

Internal Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Under Voltage Release [8538]</b>			
DZ0 UVR 240V AC	EM90518B000	3050	1
DZ1/2/4 UVR 415V AC	EM90031P000	3900	1
DZ1/2/4 UVR 240V AC	EM90031B000	3900	1
DZ1/2/4 UVR 110V AC	EM90031E000	3900	1
DZ1/2/4 UVR 48V AC	EM90031J000	3900	1
DZ1/2/4 UVR 24V AC	EM90031G000	3900	1
DZ1/2/4 UVR 220V DC	EM900312000	3900	1
DZ1/2/4 UVR 110V DC	EM900311000	3900	1
DZ1/2/4 UVR 48V DC	EM900315000	3900	1
DZ1/2/4 UVR 24V DC	EM900314000	3900	1
DZ1/2/4 UVR 12V DC	EM900313000	3900	1
DZ6/7 UVR 415V AC	EM90033P000	4340	1
DZ6/7 UVR 240V AC	EM90033B000	4340	1
DZ6/7 UVR 110V AC	EM90033E000	4340	1
DZ6/7 UVR 48V AC	EM90033J000	4340	1
DZ6/7 UVR 24V AC	EM90033G000	4340	1
DZ6/7 UVR 220V DC	EM900332000	4340	1
DZ6/7 UVR 110V DC	EM900331000	4340	1
DZ6/7 UVR 48V DC	EM900335000	4340	1
DZ6/7 UVR 24V DC	EM900334000	4340	1
DZ6/7 UVR 12V DC	EM900333000	4340	1

## Accessories for d sine DZ MCCBs [8538]

New



Direct ROM



Extended ROM



Key Lock



EOM



Spreaders Terminals



Rear Terminals



Box Clamp Terminals

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Rotary Mechanism (Direct/Extended) [8538]</b>			
DZ0 Direct ROM	EM909690000	1500	1
DZ1 Direct ROM	EM902070000	1630	1
DZ2 Direct ROM	EM902080000	1910	1
DZ4 Direct ROM	EM903860000	2220	1
DZ6 Direct ROM	EM902280000	2760	1
DZ7 Direct ROM	EM903500000	3820	1
DZ0 Extended ROM	EM909700000	2160	1
DZ1 Extended ROM	EM902090000	2200	1
DZ2 Extended ROM	EM902100000	2650	1
DZ4 Extended ROM	EM902930000	3370	1
DZ6 Extended ROM	EM902760000	4450	1
DZ7 Extended ROM	EM903810000	4660	1
<b>Panel Door mounted Key lock for Extended ROM [8301]</b>			
DZ0/1/2/4 Key Lock Type 1	EM990310000	6200	1
DZ0/1/2/4 Key Lock Type 2	EM99031000A	6200	1
DZ0/1/2/4 Key Lock Type 3	EM99031000B	6200	1
DZ0/1/2/4 Key Lock Type 12	EM99031000C	6200	1
DZ0/1/2/4 Key Lock Type 23	EM99031000D	6200	1
DZ6/7 Key Lock Type 1	EM991410000	7350	1
DZ6/7 Key Lock Type 2	EM99141000A	7350	1
DZ6/7 Key Lock Type 3	EM99141000B	7350	1
DZ6/7 Key Lock Type 12	EM99141000C	7350	1
DZ6/7 Key Lock Type 23	EM99141000D	7350	1
<b>Electrical Operating Mechanism [8538]</b>			
DZ1 240V AC	EM90490B000	37700	1
DZ2 240V AC	EM90545B000	41200	1
DZ4 240V AC	*		
DZ6 240V AC	EM90355B000	51600	1
DZ7 240V AC	EM90480B000	79500	1

\* Price on request

Note:

For Electrical Operating Mechanism, refer wiring diagram from Product Catalogue or Product Manual.

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Spreader Terminals (Up to 690V AC #) [8538]</b>			
DZ0-100 3 Pole	CM977850000	495	Set of 6
DZ0-100 4 Pole	CM979210000	775	Set of 8
DZ1, DZ2-160 3 Pole	EM906090000	1900	Set of 6
DZ1, DZ2-160 4 Pole	EM906100000	2490	Set of 8
DZ4-250 - 3 Pole	EM940960000	2850	Set of 6
DZ4-250 - 4 Pole	EM940970000	3800	Set of 8
DZ6-400 - 3 Pole	EM906110000	4100	Set of 6
DZ6-400 - 4 Pole	EM906120000	5510	Set of 8
DZ7-630 - 3 Pole	EM970500000	9720	Set of 6
DZ7-630 - 4 Pole	EM970520000	12400	Set of 8
DZ7-800 - 3 Pole	EM970510000	12500	Set of 6
DZ7-800 - 4 Pole	EM970530000	15400	Set of 8
<b>Rear Terminals [8538]</b>			
DZ1-160 3 Pole	EM911760000	5190	Set of 6
DZ1-160 4 Pole	EM911770000	7410	Set of 8
DZ2-160 3 Pole	EM920880000	5750	Set of 6
DZ2-160 4 Pole	EM920890000	8160	Set of 8
DZ4-250 - 3 Pole	EM940580000	6960	Set of 6
DZ4-250 - 4 Pole	EM940590000	9980	Set of 8
DZ6-400 - 3 Pole	EM960450000	9460	Set of 6
DZ6-400 - 4 Pole	EM960460000	13600	Set of 8
DZ7-800 - 3 Pole	EM970450000	11800	Set of 6
DZ7-800 - 4 Pole	EM970460000	17100	Set of 8
<b>Box Clamp Termination [8538]</b>			
DZ1, DZ2-160 3 Pole	EM921760000	4670	Set of 6
DZ1, DZ2-160 4 Pole	EM921770000	6670	Set of 8
DZ4-250 - 3 Pole	EM940940000	6260	Set of 6
DZ4-250 - 4 Pole	EM940950000	8980	Set of 8
DZ6-400 - 3 Pole	EM969850000	8510	Set of 6
DZ6-400 - 4 Pole	EM963700000	12200	Set of 8

Note:

Phase Barriers are supplied along with MCCBs

# For 800V Application Spreaders, please contact nearest branch office



# Accessories for d sine DZ MCCBs [8538]

New

	DZ1	DZ2	DZ4	DZ6	DZ7
Plug-in	Full Kit				Fixed Kit + Conversion Kit
Draw-out					Fixed Kit + Conversion Kit



Plug-in

Draw-out

External Accessories				
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	
<b>Plug-in Module [8538]</b>				
DZ1 3 Pole Full Kit	EM902010000	*	1	
DZ1 4 Pole Full Kit	EM902020000	*	1	
DZ2 3 Pole Full Kit	EM902620000	*	1	
DZ2 4 Pole Full Kit	EM902630000	*	1	
DZ4 3 Pole Full Kit	EM902500000	*	1	
DZ4 4 Pole Full Kit	EM902510000	*	1	
DZ6 3 Pole Full Kit	EM902460000	*	1	
DZ6 4 Pole Full Kit	EM902470000	*	1	
DZ7-630 3 Pole Fixed Kit	EM992560000	*	1	
DZ7-630 3 Pole Conversion Kit	EM992540000	*	1	
DZ7-630 4 Pole Fixed Kit	EM992570000	*	1	
DZ7-630 4 Pole Conversion Kit	EM992550000	*	1	
DZ7-800 3 Pole Fixed Kit	EM990610000	*	1	
DZ7-800 3 Pole Conversion Kit	EM990690000	*	1	
DZ7-800 4 Pole Fixed Kit	EM990620000	*	1	
DZ7-800 4 Pole Conversion Kit	EM990700000	*	1	

\* Price on request

Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Short Terminal Shroud \$ [8538]</b>			
DZ1-160 3 Pole	EM990810000	2660	1
DZ1-160 4 Pole	EM990820000	3210	1
DZ2-160 3 Pole	EM990850000	2660	1
DZ2-160 4 Pole	EM990870000	3210	1
DZ4-250 - 3 Pole	EM990890000	2800	1
DZ4-250 - 4 Pole	EM990910000	4080	1
DZ6-400 - 3 Pole	EM990930000	3720	1
DZ6-400 - 4 Pole	EM990940000	5060	1
DZ7-630/800 - 3 Pole	EM990970000	4060	1
DZ7-630/800 - 4 Pole	EM990990000	5590	1

\$ Long Terminal Shrouds available on request

Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Draw-out Module [8538]</b>			
DZ4 3 Pole Fixed Kit	EM902600000	*	1
DZ4 3 Pole Conversion Kit	EM902580000	*	1
DZ4 4 Pole Fixed Kit	EM902610000	*	1
DZ4 4 Pole Conversion Kit	EM902590000	*	1
DZ6 3 Pole Fixed Kit	EM902560000	*	1
DZ6 3 Pole Conversion Kit	EM902540000	*	1
DZ6 4 Pole Fixed Kit	EM902570000	*	1
DZ6 4 Pole Conversion Kit	EM902550000	*	1
DZ7-630 3 Pole Fixed Kit	EM991050000	*	1
DZ7-630 3 Pole Conversion Kit	EM991030000	*	1
DZ7-630 4 Pole Fixed Kit	EM991060000	*	1
DZ7-630 4 Pole Conversion Kit	EM991040000	*	1
DZ7-800 3 Pole Fixed Kit	EM904550000	*	1
DZ7-800 3 Pole Conversion Kit	EM904530000	*	1
DZ7-800 4 Pole Fixed Kit	EM904560000	*	1
DZ7-800 4 Pole Conversion Kit	EM904540000	*	1

Direct ROM or EOM is to be ordered mandatorily along with Drawout Module

\* Price on request

Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>External Neutral CT [8504]</b>			
DZ1, DZ2 - 40A, 63A, 80A	EM905070000	2300	1
DZ1, DZ2 - 100A, 160A	EM905080000	2300	1
DZ1 - 200A	EM905090000	3400	1
DZ4 - 160A, 250A	EM905120000	4040	1
DZ6 - 250A, 400A	EM905150000	6210	1
DZ7 - 630A, 800A	EM905160000	9560	1
DZ7 - 1000A	EM973260000	10100	1
<b>Adaptor Kit for External Neutral CT [8538]</b>			
DZ1, DZ2 & DZ4 - Up to 250A	CM999940000	930	Set of 2
DZ6 - Up to 400A	CM999950000	1800	Set of 2
DZ7 - Up to 1000A	EM972270000	7040	Set of 2



# Accessories for d sine DZ MCCBs [8538]

New

Mechanical Interlocking Kit Range	DZ1	DZ2	DZ4	DZ6
Front Slider	✓	✓	✓	
Rear Base Plate	-	-	✓	✓
Cable Base Plate	✓	✓	✓	✓



Front Slider



Cable Base Plate



Rear Base Plate

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Mechanical Interlocking Options [8538]</b>			
<b>1. Front Slider MIL #</b>			
DZ1 Front Slider	EM903960000	3990	1
DZ2 Front Slider	EM903970000	4200	1
DZ2/DZ4 Front Slider	EM903980000	5670	1

Front Slider MIL Selection Table	DZ1	DZ2	DZ4
DZ1	✓		
DZ2		✓	✓
DZ4		✓	✓

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>2. Rear Base Plate MIL #</b>			
DZ4 Mounting Plate ~	EM904000000	4140	1
DZ6 Mounting Plate ~	EM903990000	5170	1
DZ4 Rear Base Plate ~	EM903540000	20500	1
DZ4/DZ6 Rear Base Plate ~	EM903530000	25600	1

~ - 2 Nos of Mounting Plate and 1 No of Base Plate must be ordered together along with 2 Nos of MCCBs.

Rear Base Plate MIL Selection Table	Base Plate		Mounting Plate	
	EM90353	EM90354	EM90399	EM90400
DZ4-DZ4	X	1No.	X	2 Nos.
DZ4-DZ6	1No.	X	1No.	1No.
DZ6-DZ6	1No.	X	2 Nos.	X

Cable Base Plate MIL Selection Table		DZ1		DZ2		DZ4		DZ6	
		EM90404	EM90401	EM90404	EM90401	EM90405	EM90402	EM90406	EM90403
DZ1	EM90404	L	L						
	EM90401		M						
DZ2	EM90404			L	L	M	L	M	
	EM90401				M	L	M	M	H
DZ4	EM90405				L	M	L	M	
	EM90402					H	M	M	H
DZ6	EM90406						M	H	
	EM90403								H

# Common for 3P & 4P MCCBs





## DN MCCB Range [8536]

### DN MCCB with Thermal - Magnetic Release

Rating (A) Icu=Ics (kA)*	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400	500	630
25																DN1-C	
36																	DN3B
36/50/70																	DN3



dsine TM

- › Conforms to IS/IEC 60947-2
- › 20A to 630A, 3P & 4P
- › 25kA, 36kA, 50kA & 70kA breaking capacities
- › Ics= 100% of Icu\*
- › Adjustable overload settings: 0.8 - 1.0 x In
- › Adjustable short-circuit settings: 6 - 10 x In\*\*
- › Manual & Rotary versions available
- › Wide range of accessories

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN0-100D*	16-20	36	CM9789300C20G	9930	CM9791900C20G	13800	1
	20-25		CM9789300D20G	9930	CM9791900D20G	13800	1
	25-32		CM9789300E20G	9930	CM9791900E20G	13800	1
	32-40		CM9789300F20G	9930	CM9791900F20G	13800	1
	40-50		CM9789300G20G	9930	CM9791900G20G	13800	1
	50-63		CM9789300H20G	9640	CM9791900H20G	13400	1
	63-80		CM9789300J20G	9640	CM9791900J20G	13400	1
	80-100		CM9789300K20G	9640	CM9791900K20G	13400	1
DN0-125D*	100-125		CM9068000LOOG	11900	CM9068100LOOG	15800	1
DN0-100C	16-20	25	CM9161200COOG	10200	CM9171200COOG	14300	1
	20-25		CM9161200DOOG	10200	CM9171200DOOG	14300	1
	25-32		CM9161200EOOG	10200	CM9171200EOOG	14300	1
	32-40		CM9161200FOOG	10200	CM9171200FOOG	14300	1
	40-50		CM9161200GOOG	10200	CM9171200GOOG	14300	1
	50-63		CM9161200HOOG	9920	CM9171200HOOG	13900	1
	63-80		CM9161200JOOG	9920	CM9171200JOOG	13900	1
	80-100		CM9161200KOOG	9920	CM9171200KOOG	13900	1
DN1-250C	100-125		CM9063800LO	13800	CM9064200LO	16900	1
	125-160		CM9063800MO	17900	CM9064200MO	21700	1
	160-200		CM9063800NO	22900	CM9064200NO	27300	1
	200-250		CM9063800PO	26900	CM9064200PO	31100	1

**Note:**

Breaking Capacity : C = 25kA, D = 36kA, N = 50kA, S = 70kA

\* DN0-100D/125D : Ics= 50% Icu

\*\* For DN0, DN1, DN3B-Short Circuit Setting: 9In

For DN1-250N (50kA) please contact nearest branch office

\*\*\* From 16A to 50A, Fixed Magnetic setting (375A)





## DN MCCB Range [8536]

### DN MCCB with Thermal - Magnetic Release

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	100-125	36	CM9200800L10G	21400	CM9210800L10G	26500	1
	125-160		CM9200800M10G	26500	CM9210800M10G	32700	1
	160-200		CM9200900N10G	27500	CM9210900N10G	35100	1
	200-250		CM9200900P10G	30900	CM9210900P10G	37200	1
	250-320		CM9840100Q00G	39600	CM9840300Q00G	48300	1
	320-400		CM9840100R00G	39600	CM9840300R00G	48300	1
	250-320		CM9400500Q10G	*	CM9410500Q10G	*	1
	320-400		CM9400500R10G	*	CM9410500R10G	*	1
DN3-400D	400-500	50	CM9400600S10G	50900	CM9410600S10G	64100	1
	500-630		CM9400600T10G	50900	CM9410600T10G	64100	1
DN2-250N	100-125		CM9200500L10G	29700	CM9210500L10G	36100	1
	125-160		CM9200500M10G	30500	CM9210500M10G	38400	1
	160-200		CM9200600N10G	31500	CM9210600N10G	39600	1
	200-250		CM9200600P10G	33800	CM9210600P10G	42400	1
DN3-400N	250-320		CM9400300Q10G	43800	CM9410300Q10G	54200	1
	320-400		CM9400300R10G	43800	CM9410300R10G	54200	1
DN3-630N	400-500		CM9400400S10G	56500	CM9410400S10G	72900	1
	500-630		CM9400400T10G	56500	CM9410400T10G	72900	1
DN2-250S	100-125	70	CM9200200L10G	40600	CM9210200L10G	44800	1
	125-160		CM9200200M10G	43200	CM9210200M10G	48400	1
	160-200		CM9200300N10G	48200	CM9210300N10G	57100	1
	200-250		CM9200300P10G	50600	CM9210300P10G	60900	1
DN3-400S	250-320		CM9400100Q10G	54200	CM9410100Q10G	64100	1
	320-400		CM9400100R10G	54200	CM9410100R10G	64100	1
DN3-630S	400-500		CM9400200S10G	71900	CM9410200S10G	85600	1
	500-630		CM9400200T10G	71900	CM9410200T10G	85600	1

\* Price on request

#### General Information

- › Use of phase barriers is mandatory. These are supplied along with MCCBs
- › It is recommended to use spreader terminals for enhancing termination capacity
- › Spreader terminals are available as accessories, unless otherwise specified against cat. nos.

#### Special Applications

- › dsine/DU/DY MCCBs with TM release can be used for DC application (2P/3P/4P)
- › dsine/DU MCCBs can be used for Capacitor back-up protection
- › For Motor back-up protection, use 'M' series of MCCBs
- › For isolator applications, use SD version (without protection release)





## DN MCCB Range [8536]

### d sine DN MCCB with Microprocessor Release

Rating (A) Icu (kA)	40	63	100	160	250	400	630	800	1000	1250
36/50/70/100				DN2			DN3			
50/70/100								DN4		

### d sine DN MCCB with Microprocessor Release MTX1.0



dsine DN MTX1.0

- › Conforms to IS/IEC 60947-2
- › 40A to 1250A, 3P & 4P
- › 36kA, 50kA, 70kA and 100kA breaking capacities
- › Ics=100% Icu
- › Adjustable overload setting from 0.4 to 1.0 x In
- › Adjustable short-circuit setting from 1.5 to 8 x Ir
- › Inbuilt instantaneous Protection
- › Switchable thermal memory
- › Variable trip class
- › Front LED Indication
- › Manual & Rotary versions available
- › Wide range of accessories

Type	Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16-40	36	CM920630000X1	30800	CM921550000X1	38700	1
	25-63		CM920710000X1	30800	CM921540000X1	38700	1
	40-100		CM920510000X1	30800	CM921530000X1	38700	1
	63-160		CM920740000X1	38900	CM921520000X1	54100	1
	100-250		CM920540000X1	40500	CM921510000X1	56100	1
DN3-400D	160-400	50	CM930010000X1	49800	CM930030000X1	64500	1
DN3-630D	250-630		CM930050000X1	55000	CM930070000X1	72900	1
DN2-250N	16-40		CM920640000X1	35100	CM921600000X1	46500	1
	25-63		CM920720000X1	35100	CM921590000X1	46500	1
	40-100		CM920520000X1	35100	CM921580000X1	46500	1
	63-160		CM920750000X1	45500	CM921570000X1	59200	1
	100-250		CM920550000X1	48600	CM921560000X1	60500	1
DN3-400N	160-400	70	CM930020000X1	54500	CM930040000X1	71000	1
DN3-630N	250-630		CM930060000X1	59800	CM930080000X1	78000	1
DN4-1250N	320-800		CM960210000X1	89900	CM961110000X1	114300	1
	400-1000		CM960220000X1	133000	CM961120000X1	187200	1
	500-1250		CM960230000X1	166000	CM961130000X1	224500	1
DN2-250S	16-40	70	CM920650000X1	37000	CM921650000X1	48200	1
	25-63		CM920730000X1	37000	CM921640000X1	48200	1
	40-100		CM920590000X1	37000	CM921630000X1	48200	1
	63-160		CM920760000X1	48400	CM921620000X1	60600	1
	100-250		CM920560000X1	52500	CM921610000X1	75200	1
DN3-400S	160-400	70	CM940530000X1	70300	CM941530000X1	92800	1
DN3-630S	250-630		CM940790000X1	74900	CM941790000X1	109000	1
DN4-1250S	320-800		CM960250000X1	96400	CM961150000X1	126300	1
	400-1000		CM960260000X1	138800	CM961160000X1	204400	1
	500-1250		CM960270000X1	179700	CM961170000X1	244500	1

**Note:**

dsine DN-V Version (Icu=Ics=100kA) MCCBs are available on request.





## DN MCCB Range [8536]



### DN MCCB with Microprocessor Release MTX2.0



**dsine DN MTX2.0**

- › Conforms to IS/IEC 60947-2
- › 40A to 1250A, 3P & 4P
- › 36kA, 50kA, 70kA and 100kA breaking capacities
- ›  $I_{cs}=100\% I_{cu}$
- › Adjustable overload setting from 0.4 to  $1.0 \times I_{n}$
- › Adjustable short-circuit setting from 1.5 to  $8 \times I_{n}$
- › Inbuilt instantaneous Protection
- › Inbuilt ground fault protection from 20%-50% of  $I_{n}$
- › Adjustable neutral overload protection from 50% to 150% of  $I_{n}$
- › Switchable thermal memory
- › Variable trip class
- › Front LED Indication
- › Panel mounted display for current metering & trip record
- › Manual & Rotary versions available
- › Wide range of accessories

Type	Release Range (A)	Breaking Capacity $I_{cu}$ at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16-40	36	CM920630000AG	52700	CM921550000AG	60600	1
	25-63		CM920710000AG	52700	CM921540000AG	60600	1
	40-100		CM920510000AG	52700	CM921530000AG	60600	1
	63-160		CM920740000AG	57300	CM921520000AG	70300	1
	100-250		CM920540000AG	58000	CM921510000AG	71200	1
DN3-400D	160-400	50	CM930010000AG	68600	CM930030000AG	79500	1
DN3-630D	250-630		CM930050000AG	75100	CM930070000AG	91000	1
DN2-250N	16-40		CM920640000AG	57300	CM921600000AG	68300	1
	25-63		CM920720000AG	57300	CM921590000AG	68300	1
	40-100		CM920520000AG	57300	CM921580000AG	68300	1
	63-160		CM920750000AG	59700	CM921570000AG	72600	1
	100-250		CM920550000AG	60200	CM921560000AG	73200	1
DN3-400N	160-400	70	CM930020000AG	72100	CM930040000AG	86000	1
DN3-630N	250-630		CM930060000AG	79800	CM930080000AG	102900	1
DN4-1250N	320-800		CM960210000AG	123200	CM961110000AG	146200	1
	400-1000		CM960220000AG	158600	CM961120000AG	210200	1
	500-1250		CM960230000AG	198400	CM961130000AG	256700	1
DN2-250S	16-40	70	CM920650000AG	60000	CM921650000AG	71400	1
	25-63		CM920730000AG	60000	CM921640000AG	71400	1
	40-100		CM920590000AG	60000	CM921630000AG	71400	1
	63-160		CM920760000AG	71300	CM921620000AG	79800	1
	100-250		CM920560000AG	79100	CM921610000AG	93100	1
DN3-400S	160-400	70	CM940530000AG	97600	CM941530000AG	122200	1
DN3-630S	250-630		CM940790000AG	105600	CM941790000AG	145200	1
DN4-1250S	320-800		CM960250000AG	141800	CM961150000AG	177300	1
	400-1000		CM960260000AG	198000	CM961160000AG	257800	1
	500-1250		CM960270000AG	243900	CM961170000AG	319900	1

**Note:**

dsine DN-V Version ( $I_{cu}=I_{cs}=100\text{kA}$ ) MCCBs are available on request.

### Accessories for MTX2.0 [8538]

Modules for MTX2.0 release	Cat. No.	M.R.P. (₹) Per Unit
Current Metering Module (Display & Metering Module)	CM956980000	39300
Cable (2m length)	CM011960000	1920
Power Supply Module	CL907220000	*
UNCO Module for Status Indication & Control through communication	CL908520000	17500

\* Price on request

Current Metering & latest trip record





## DN MCCB Range [8536]



### DN MCCB with Microprocessor Release MTX3.0



**dsine DN MTX3.0**

- › Conforms to IS/IEC 60947-2 & IEC 60947-2
- › Range: 40A to 1250A, 3P & 4P
- › Choice of 36kA / 50kA / 70kA / 100kA breaking capacities
- › Ics = 100% Icu
- › Suitable for Isolation
- › Adjustable Over Load from 0.4 - 1.0 x In
- › Adjustable Short Circuit from 1.5 - 8 x Ir with selectable time delay
- › Instantaneous protection with fine settings
- › Inbuilt ground fault protection from 10% - 50% of In
- › Adjustable neutral overload protection available : 50% to 150% of Ir
- › Advanced Current, Voltage, Frequency & Power based protections
- › Other Protections like Maximum Demand, Phase Sequence, THD etc.
- › Comprehensive Current, Power, Energy, PF, MD, THD metering
- › Provision of Thermal Memory : ON/OFF
- › Variable trip class at 1.5 Ir, 6 Ir & 7.2 Ir
- › Front LED indication of Over Load, short circuit & earth fault
- › Panel mounted display available for advanced protections & metering
- › Communication capable release
- › Manual & Rotary versions available
- › For 3 phase 4 wire system, External neutral CTs available for 3P MCCBs
- › Wide Range of snap fit Internal and External Accessories

Type	Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16 - 40	36	CM920630000BG	*	CM921550000BG	*	1
	25 - 63		CM920710000BG		CM921540000BG		1
	40 - 100		CM920510000BG		CM921530000BG		1
	63 - 160		CM920740000BG		CM921520000BG		1
	100 - 250		CM920540000BG		CM921510000BG		1
DN3-400D	160 - 400	50	CM930010000BG	*	CM930030000BG	*	1
DN3-630D	250 - 630		CM930050000BG		CM930070000BG		1
DN2-250N	16 - 40		CM920640000BG		CM921600000BG		1
	25 - 63		CM920720000BG		CM921590000BG		1
	40 - 100		CM920520000BG		CM921580000BG		1
	63 - 160		CM920750000BG		CM921570000BG		1
	100 - 250		CM920550000BG		CM921560000BG		1
DN3-400N	160 - 400	70	CM930020000BG	*	CM930040000BG	*	1
DN3-630N	250 - 630		CM930060000BG		CM930080000BG		1
DN4-1250N	320 - 800		CM960210000BG		CM961110000BG		1
	400 - 1000		CM960220000BG		CM961120000BG		1
	500 - 1250		CM960230000BG		CM961130000BG		1
DN2-250S	16 - 40		CM920650000BG	*	CM921650000BG	*	1
	25 - 63		CM920730000BG		CM921640000BG		1
	40 - 100		CM920590000BG		CM921630000BG		1
	63 - 160		CM920760000BG		CM921620000BG		1
	100 - 250		CM920560000BG		CM921610000BG		1
DN3-400S	160 - 400	70	CM940530000BG	*	CM941530000BG	*	1
DN3-630S	250 - 630		CM940790000BG		CM941790000BG		1
DN4-1250S	320 - 800		CM960250000BG		CM961150000BG		1
	400 - 1000		CM960260000BG		CM961160000BG		1
	500 - 1250		CM960270000BG		CM961170000BG		1

**Note:**

dsine DN-V Version (Icu=Ics=100kA) MCCBs are available on request.

### Accessories for MTX3.0 [8538]

Modules for MTX3.0 release	Cat. No.	M.R.P. (₹) Per Unit
Communication Module	CM956800000	*
Voltage Module	CM956850000	*
Display Module	CM956760000	*
Power Supply Module	CL907220000	*
UNCO Module for Status Indication & Control through communication	CL908520000	17500

\* Price on request





## DN MCCB Range [8536]



### DN MCCBs for Motor back-up Protection



- › Range: 32A to 630A, 50kA
- › Suitable for isolation
- › Wide Range of snap fit Internal and External Accessories

3 Pole					
Type	Current Rating (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN0-100M	32	50	CM9894400EO	*	1
	40		CM9894400FO	*	1
	50		CM9894400GO	*	1
	63		CM9894400HO	*	1
	80		CM9894400JO	*	1
	100		CM9894400KO	*	1
DN1-160M	100	50	CM9034500KO	*	1
	125		CM9034500LO	*	1
	160		CM9034500MO	*	1
DN2-250M	200		CM9217100NOOG	*	1
	250		CM9217100POOG	*	1
DN3-400M	320		CM9451600QOOG	*	1
	400		CM9451600ROOG	*	1
DN3-630M	500		CM9451500SOOG	*	1
	630		CM9451500TOOG	*	1

\* Price on request

#### Note:

Please contact nearest branch office for fuseless type 2 co-ordination selection chart  
For lower HP Motors, Please select MMS. Details are given on page no.21



Representative Application Image



## DN MCCB Range [8536]

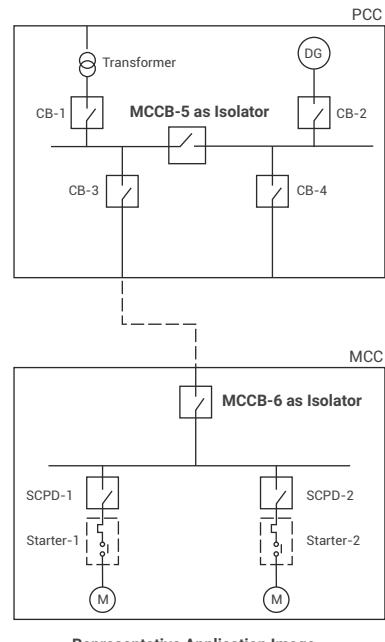


### DN Switch Disconnector - SD (MCCBs without protection release)



- › Used as switching devices for isolation
- › Range: 32A to 1250A, 3P & 4P
- › Suitable for isolation
- › Wide Range of snap fit Internal and External Accessories

Type	Current Rating (A)	3 Pole		4 Pole		Std. Pkg. (Nos.)
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN0-160SD	32	CM9071600EO	7880	CM9071700EO	10500	1
	63	CM9071600HO	7880	CM9071700HO	10500	1
	100	CM9071600KO	9400	CM9071700KO	12300	1
	125	CM9071600LO	10400	CM9071700LO	13700	1
	160	CM9071600MO	11200	CM9071700MO	14500	1
DN2-250SD	200	CM9681400NOOG	22400	CM9681500NOOG	29800	1
	250	CM968020OPOOG	24100	CM968030OPOOG	31900	1
DN3B-400SD	320	CM9841000QOOG	35600	CM9841200QOOG	46200	1
	400	CM984100R0OG	35600	CM9841200R0OG	46200	1
DN3-630SD	500	CM9680600SOOG	40400	CM9680700SOOG	55100	1
	630	CM9680600TOOG	40400	CM9680700TOOG	55100	1
DN4-1250SD	800	CM9304100UU	80500	CM9304200UU	99300	1
	1000	CM9304100VO	107000	CM9304200VO	137000	1
	1250	CM9304100AO	142000	CM9304200AO	176000	1



## Automatic Source Transfer System (ASTS)

- › 128x80 pixel, backlit LCD screen with 4 grey levels
- › Advanced programmable I/O function
- › Management of automatic generator start/stop
- › Controls of UV, OV, phase loss, asymmetry, minimum frequency, maximum frequency, with independent enabling and time delay



### Automatic Transfer Controllers (ATC) [9032]

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 controller**	ATC200000000	33200	1

Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

Note:

\*\* For communication version of AuXC controller refer page no-6

Frame	Accessories	Total Set M.R.P. (₹)	Remarks
DN2	2 Nos : SEOMs with Aux + Trip Alarm Contact + 1 No. : MIL	*	Add MRPs of Similar 2 MCCBs of DN2 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-400	+ 1 No. : AuXC2000	*	Add MRPs of Similar 2 MCCBs of DN3 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-630		*	

\* Price on request

Note:

Picture shown is for representation purpose only, MCCB + EOM + ATAC combination, MIL kit & AuXC-2000 to be purchased separately & assembled at site.

### 2 d sine MCCBs + 2 SE-EOM + 2 ATAC + 1 MIL kit

For AuXC 2000/2100 programming videos and more details please scan the QR code or click here



# Accessories for d sine DN MCCBs [8538]



Auxiliary Contact



TAC



Shunt Release



UV Release



Neutral CT



Direct ROM



Extended ROM



Key Lock

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Auxiliary Contact [8538]</b>			
DN0, DN1 - 1 C/O - Right	CM978860000	1230	1
DN0, DN1 - 2 C/O - Right	CM978870000	2170	1
DN2, DN3B, DN3, DN4 - 1 C/O	CM998010000	1430	1
DN2, DN3B, DN3, DN4 - 2 C/O	CM998020000	2760	1
<b>Trip Alarm Contact [8538]</b>			
DN0, DN1 - 1 C/O - Right	CM978880000	1230	1
DN0, DN1 - 2 C/O - Right	CM978890000	2170	1
DN2, DN3B, DN3, DN4 - 1 C/O - Right	CM998030000	1500	1
<b>Auxiliary 1 C/O + TAC 1 C/O [8538]</b>			
DN0, DN1 - Right	CM978900000	2090	1
DN2, DN3B, DN3, DN4 - Right	CM998040000	2760	1
<b>Shunt Release [8538]</b>			
DN0, DN1 - 24V DC - Left	CM914020400	2430	1
DN0, DN1 - 110V AC - Left	CM978830A00	2430	1
DN0, DN1 - 240/415V AC - Left	CM978830M00	2430	1
DN2, DN3 - 110V DC - Left	CM998070000	4290	1
DN2, DN3B, DN3, DN4-110/240/415V AC, 220V DC	CM998050000	3580®	1
DN2, DN3B, DN3 - 24V DC	CM989760400	3580®	1
<b>Under Voltage Release [8538]</b>			
DN0, DN1 - 240V AC - Left	CM97892B000	4030	1
DN2, DN3B, DN3 - 240V AC - Left	CM99986B000	4980**	1
DN4 - 240V AC - Left	CM999060000	5680**	1

® - 'NO' of control contactor to be connected in series for DC control supply

\*\* Use these UV Cat. Nos. with Grey look MCCBs only

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>External Neutral CT [8504]</b>			
DN2 - 40A	CM999460000	2160	1
DN2 - 63A	CM999470000	2160	1
DN2 - 100A	CM999480000	2160	1
DN2 - 160A	CM999490000	3100	1
DN2 - 250A	CM999500000	3100	1
DN3 - 400A	CM999540000	6330	1
DN3 - 630A	CM999550000	6330	1
DN4 - 800A	CM998890000	9700	1
DN4 - 1000A	CM998900000	10100	1
DN4 - 1250A	CM998910000	11200	1
<b>Adaptor kit for External Neutral CT [8538]</b>			
DN2 - 250	CM999940000	930	Set of 2
DN3 - 400	CM999950000	1800	Set of 2
DN3 - 630	CM999970000	1880	Set of 2
DN4 - 800	CM999960000	3240	Set of 2
DN4 - 1000	CM909660000	6860	Set of 4
DN4 - 1250	CM999980000	11700	Set of 2

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Rotary Handle [8538]</b>			
DN0 Direct ROM	CM978950000	1560	1
DN1 Direct ROM	CM980400000	1680	1
DN2 Direct ROM	CM998290000	1730	1
DN3B, DN3 Direct ROM	CM998600000	2590	1
DN0 Extended ROM	CM978960000	2030	1
DN1 Extended ROM	CM980410000	2160	1
DN2 Extended ROM	CM998300000	2610	1
DN3B, DN3 Extended ROM	CM998610000	4260	1
DN4 Extended ROM	CM998840000	5410	1
<b>Panel door mounted Key lock for Extended ROM # [8301]</b>			
Type 1	CM99958T0000	7210	1
Type 2	CM99958T000A	7210	1
Type 3	CM99958T000B	7210	1
Type 12	CM99958T000C	7210	1
Type 23	CM99958T000D	7210	1

# - Can be used with dsine DN & DU new look extended ROM



Spreader Terminals



MIL Kit - Base Mounted

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Spreader Terminals [8538]</b>			
DN0-100 - 3 Pole	CM977850000	495	Set of 6
DN0-125D - 3 Pole	CM9068700LO	640	Set of 6
DN1, DN2 - 250 - 3 Pole	ST980530000	2120	Set of 6
DN3B/DN3 - 400 - 3 Pole	ST980650000	4110	Set of 6
DN3-630 - 3 Pole	ST980540000	4760	Set of 6
DN4-800 - 3 Pole	CM9116100UO	10000	Set of 6
DN4-1000 - 3 Pole	CM9116100VO	20100	Set of 12
DN4-1250 - 3 Pole	CM9116100AO	39600	Set of 6
DN0-100 - 4 Pole	CM979210000	775	Set of 8
DN0-125D - 4 Pole	CM9068800LO	925	Set of 8
DN1, DN2 - 250 - 4 Pole	CM920070000	2810	Set of 8
DN3B/DN3-400 - 4 Pole	ST980660000	5900	Set of 8
DN3-630 - 4 Pole	CM920040000	6040	Set of 8
DN4-800 - 4 Pole	ST903620000	12800	Set of 8
DN4-1000 - 4 Pole	CM9006400VO	25500	Set of 16
DN4-1250 - 4 Pole	ST980580000	50700	Set of 8
<b>Mechanical Interlock Kit - Base Plate [8538]</b>			
DN2-250	CM997310000	8170	1
DN3-400	CM997320000	12500	1
DN3-630	CM998540000	13500	1
<b>DIN rail kit [8538]</b>			
DN0	CM909440000	185	1

#### Note:

Phase Barriers are supplied along with MCCBs



## DU/DY MCCB Range [8536]

### DU/DY with Thermal - Magnetic Release :

Rating (A) Icu (kA)	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400
10														DY250U1	
18														DU125D	
25														DU250C	
30														DU125H	
36														DU250	
50															DU400N

### DY125U MCCBs



- › Conforms to IS/IEC 60947-2, IEC 60947-2 & EN 60947-2
- › Range: 16A to 125A, 2P/3P/4P
- › Ics=100% of Icu
- › High Electrical & Mechanical life
- › Thermal Magnetic Release
- › No Load-Line Bias
- › ON-TRIP-OFF indication
- › Suitable for Isolation
- › Common SS Enclosure for 3P & 4P

Type	Current Rating (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)	
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit		
DY125U	16	AC : 25kA @ 240V AC, 50 Hz/60 Hz DC : 10kA @ 250V DC (2P in series)	EM9098200BO	2140	AC : 10kA @ 415V AC, 50 Hz/60 Hz DC : 10kA @ 250V DC (3P in series)	EM9098300BO	2520	EM9098400BO	3390	1	
	20		EM9098200CO	2140		EM9098300CO	2520	EM9098400CO	3390	1	
	25		EM9098200DO	2140		EM9098300DO	2520	EM9098400DO	3390	1	
	32		EM9098200EO	2140		EM9098300EO	2520	EM9098400EO	3390	1	
	40		EM9098200FO	2140		EM9098300FO	2520	EM9098400FO	3390	1	
	50		EM9098200GO	2140		EM9098300GO	2520	EM9098400GO	3390	1	
	63		EM9098200HO	2080		EM9098300HO	2450	EM9098400HO	3290	1	
	80		EM9098200JO▲	2290		EM9098300JO▲	2760	EM9098400JO▲	3800	1	
	100		EM9081200JO	2080		EM9081300JO	2450	EM9081400JO	3290	1	
			EM9098200KO▲	2290		EM9098300KO▲	2760	EM9098400KO▲	3800	1	
	125		EM9081200KO	2080		EM9081300KO	2450	EM9081400KO	3290	1	
			EM9098200LO▲	3210		EM9098300LO▲	4050	EM9098400LO▲	4960	1	

▲- Spreader Terminals are included

Note: 2 Pole in 3 Pole frame size

Phase barriers are supplied with all MCCBs

### Accessories for DY125U MCCBs [8538]



Auxiliary/Trip Alarm Contact



Spreader Terminals

Direct ROM

Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Auxiliary/Trip Alarm Contact</b>			
1C/O	EM909660000	745	1
<b>Shunt Release</b>			
Short Rated 110/240/415V AC	EM905200M00	1005	1
<b>Under Voltage Release</b>			
240V AC	EM90518B000	3050	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Spreader Terminals</b>			
2 Pole (upto 100A)	CM977850002	325	Set of 4
3 Pole (upto 100A)	CM977850000	495	Set of 6
4 Pole (upto 100A)	CM979210000	775	Set of 8
<b>Rotary Handle</b>			
Direct ROM	EM909690000	1500	1
Extended ROM	EM909700000	2160	1
<b>SS Enclosure</b>			
Size I Enclosure for 3P & 4P	CM909960000	2570	1

## DU MCCB Range [8536]

### 3 Pole / 4 Pole MCCBs

#### DU100D/DU125D MCCBs



- › Conforms to IS/IEC 60947-2 & IEC 60947-2
- › Range: 20A to 125A, 3P & 4P
- › Ics=100% of Icu
- › Compact size
- › Common SS Enclosure for 3P & 4P
- › Wide Range of snap fit Internal and External Accessories
- › Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU100D	16-20	18	CM9051700CO	5350	CM9051800CO	6920	1
	20-25		CM9051700DO	5350	CM9051800DO	6920	1
	25-32		CM9051700EO	5350	CM9051800EO	6920	1
	32-40		CM9051700FO	5350	CM9051800FO	6920	1
	40-50		CM9051700GO	5350	CM9051800GO	6920	1
	50-63		CM9051700HO	5190	CM9051800HO	6720	1
	63-80		CM9051700JO	5190	CM9051800JO	6720	1
	80-100		CM9051700KO	5190	CM9051800KO	6720	1
DU125D	100-125		CM9067600LO	6290	CM9067700LO	8320	1

Note:  
DIN rail kit available as an accessory. Please refer DU100D/DU125D accessories table.

### 2 Pole / 3 Pole / 4 Pole MCCBs

#### DU100H/DU125H MCCBs



- › Conforms to IS/IEC 60947-2 & IEC 60947-2
- › Range: 20A to 125A, 2P, 3P & 4P
- › Compact size
- › Common SS Enclosure for 2P, 3P & 4P
- › Wide Range of snap fit Internal and External Accessories
- › Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu at 415V AC 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU100H	16-20	AC : 65kA @ 240V AC, 50Hz DC : 15kA @ 250V DC, (2P in Series) L/R < 15 msec.	CM9789800C2	4300	30	CM9789400C2	5990	CM9793300C2	7990	1
	20-25		CM9789800D2	4300		CM9789400D2	5990	CM9793300D2	7990	1
	25-32		CM9789800E2	4300		CM9789400E2	5990	CM9793300E2	7990	1
	32-40		CM9789800F2	4300		CM9789400F2	5990	CM9793300F2	7990	1
	40-50		CM9789800G2	4300		CM9789400G2	5990	CM9793300G2	7990	1
	50-63		CM9789800H2	4170		CM9789400H2	5820	CM9793300H2	7760	1
	63-80		CM9789800J2	4170		CM9789400J2	5820	CM9793300J2	7760	1
	80-100		CM9789800K2	4170		CM9789400K2	5820	CM9793300K2	7760	1
DU125H	100-125		CM9119800LO	6480		CM9067800LO	6780	CM9067900LO	8860	1

Note: 2 Pole in 3 pole frame size

DIN rail kit available as an accessory. Please refer DU100H/DU125H accessories table.

### Accessories for DU100D/DU125D/DU100H/DU125H MCCBs [8538]



Auxiliary Contact



ATAC



Shunt Release



UV Release



Spreader Terminals



Direct ROM



Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Auxiliary Contact</b>			
1 C/O - Right	CM978860000	1230	1
2 C/O - Right	CM978870000	2170	1
<b>Trip Alarm Contact</b>			
1 C/O - Right	CM978880000	1230	1
2 C/O - Right	CM978890000	2170	1
<b>Auxiliary + Trip Alarm Contact</b>			
1 C/O + 1C/O - Right	CM978900000	2090	1
<b>Shunt Release</b>			
24V DC - Left	CM914020400	2430	1
110V AC - Left	CM978830A00	2430	1
240/415V AC - Left	CM978830M00	2430	1
<b>Under Voltage Release</b>			
240V AC - Left	CM97892B000	4030	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Spreader Terminals</b>			
DU100H - 2 Pole	CM977850002	325	Set of 4
DU125H - 2 Pole	CM9119900LO	415	Set of 4
DU100D/DU100H - 3 Pole	CM977850000	495	Set of 6
DU125D/DU125H - 3 Pole	CM9068700LO	640	Set of 6
DU100D/DU100H - 4 Pole	CM979210000	775	Set of 8
DU125D/DU125H - 4 Pole	CM9068800LO	925	Set of 8
<b>Rotary Handle</b>			
DU100D/DU125D/ DU100H/DU125H	CM978950000	1560	1
DU100H/DU125H Extended ROM	CM978960000	2030	1
<b>DIN rail kit</b>			
DU100D/DU125D/DU100H/DU125H	CM909440000	185	1
<b>SS Enclosure</b>			
Size I Enclosure	CM909960000	2570	1

Note: Phase Barriers are supplied along with all MCCBs



## DU/DY MCCB Range [8536]

### 2 Pole / 3 Pole / 4 Pole MCCBs DY250U1/DU250C/DU250/DU400N MCCBs



- › Conforms to IS/IEC 60947-2 & IEC 60947-2
- › Range: 160A to 400A, 2P, 3P & 4P
- › Common SS Enclosure for 2P, 3P & 4P\*
- › Compact size
- › Wide Range of snap fit Internal and External Accessories
- › Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DY250U1	125-160	-	-	-	10	CM9819500MO▲	7270	CM9819600MO▲	9800	1
	160-200					CM9819500NO▲	8470	CM9819600NO▲	11000	1
	200-250					CM9819500PO▲	11000	CM9819600PO▲	14800	1
DU250C	125-160	-	-	-	25	CM9063100MO	9110	CM9063400MO	11600	1
	160-200					CM9063100NO	11000	CM9063400NO	14000	1
	200-250					CM9063100PO	12100	CM9063400PO	16000	1
DU250	125-160	AC : 65kA @ 240V AC, 50Hz DC : 15kA for DU250 @ 250V DC & 25kA for DU400N @ 250V DC, (2P in Series) L/R < 15 msec.	CM9090500MO	7920	36	CM980620000	10600	CM9806500MO	13100	1
	160-200			CM9090500NO		CM980610000	13000	CM9806500NO	17500	1
	200-250			CM9090500PO		CM980600000	14500	CM9806500PO	19200	1
DU400N	250-320	(2P in Series) L/R < 15 msec.	CM9088600QQ	18500	50	CM9840200QQ	21700	CM9840400QQ	26600	1
	320-400		CM9088600RO	18500		CM9840200RO	21700	CM9840400RO	26600	1

▲- Spreader Terminals are included

Note: 2 Pole in 3 Pole frame size \* For DU250/DU250C

### Accessories for DY250U1/DU250/DU250C MCCBs [8538]

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Auxiliary Contact</b>			
1 C/O - Right	CM978860000	1230	1
2 C/O - Right	CM978870000	2170	1
<b>Trip Alarm Contact</b>			
1 C/O - Right	CM978880000	1230	1
2 C/O - Right	CM978890000	2170	1
<b>Auxiliary + Trip Alarm Contact</b>			
1 C/O + 1C/O - Right	CM978900000	2090	1
<b>Shunt Release</b>			
24V DC - Left	CM914020400	2430	1
110V AC - Left	CM978830A00	2430	1
240/415V AC - Left	CM978830M00	2430	1
<b>Under Voltage Release</b>			
240V AC - Left	CM97892B000	4030	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Spreader Terminals</b>			
DU250 - 2 Pole	CM909600000	1660	Set of 4
DU250C/DU250 - 3 Pole	ST980530000	2120	Set of 6
DU250C/DU250 - 4 Pole	CM920070000	2810	Set of 8
<b>Rotary Handle</b>			
Direct ROM	CM980400000	1680	1
Extended ROM	CM980410000	2160	1
<b>SS Enclosure</b>			
Size II Enclosure	CM910030000	5900	1

Note: Phase Barriers are supplied along with all MCCBs

### Accessories for DU400N MCCBs [8538]

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Auxiliary Contact</b>			
1 C/O	CM998010000	1430	1
2 C/O	CM998020000	2760	1
<b>Trip Alarm Contact</b>			
1 C/O - Right	CM998030000	1500	1
<b>Auxiliary + Trip Alarm Contact</b>			
1 C/O + 1C/O - Right	CM998040000	2760	1
<b>Shunt Release</b>			
110/240/415V AC, 220V DC	CM998050000	3580@	1
24V DC	CM989760400	3580@	1
<b>Under Voltage Release</b>			
240V AC - Left	CM99986B000	4980	1



Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Spreader Terminals</b>			
2 Pole	CM909640000	2580	Set of 4
3 Pole	ST980650000	4110	Set of 6
4 Pole	ST980660000	5900	Set of 8
<b>Rotary Handle</b>			
Direct ROM	CM998600000	2590	1
Extended ROM	CM998610000	4260	1

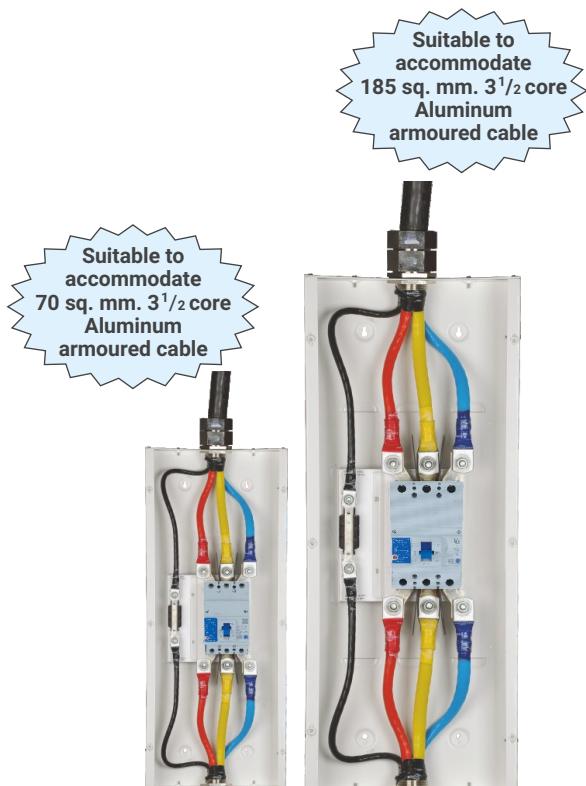
#### Note:

Phase Barriers are supplied along with all MCCBs

All internal accessories & ROMs are common for 2P MCCBs

@ - 'NO' of control contactor to be connected in series for DC control supply

## SS Enclosure for MCCBs [8538]



**Size I & Size II Enclosures**

**Note:**

Pictorial is for representation purpose only.  
Does not include cabling. MCCB to be purchased separately.

### Perfect home for your MCCB

- › Superior Aesthetics
- › Common Enclosure for 3P and 4P MCCBs
- › Generous space for cable termination
- › In-built neutral Link for TPN system
- › IK08 and IP30 Protection
- › Mounting holes for easy wall mounting
- › Louvers for better heat dissipation
- › Effortless Installation
- › Size I suitable up to 125A MCCBs, 36kA
- › Size II suitable from 160A to 250A MCCBs, 50kA

Separate cable gland box  
NOT required



Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Size I Enclosure for DU100H/DU125H/ DU100D/DU125D/DN0/DY125U	<b>CM909960000</b>	<b>2570</b>	1
Size II Enclosure for DY250U1/DU250C/DU250/DN1	<b>CM910030000</b>	<b>5900</b>	1



**Easy wall Mounting**



**In-built Neutral Link**



**Better Heat Dissipation**

## Ground Fault Module [8538]



- › Provides protection against ground fault
- › GF Module for ground fault protection can be used with all Thermal Magnetic MCCBs
- › Adjustable ground fault sensitivity selection: 10% - 50% of In
- › Adjustable time delay: 100ms / 200ms
- › Test facility to check healthiness of ground fault protection system without tripping MCCB
- › Suitable for 3 phase 3 wire & 3 phase 4 wire electrical distribution network with cable termination
- › LED for earth fault indication

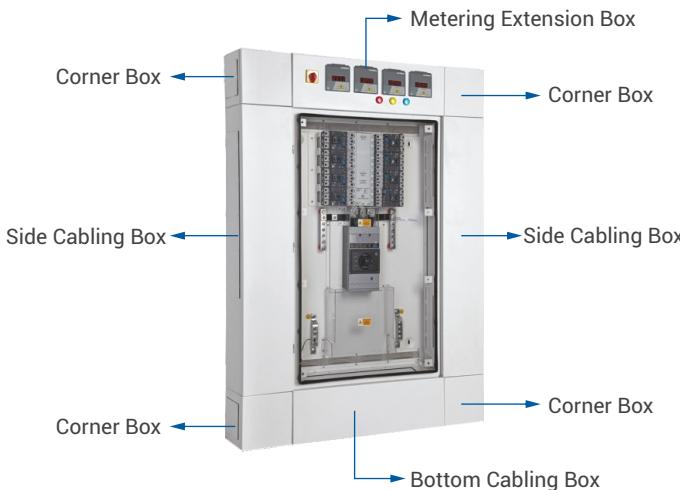


### Ground Fault Protection

Type	Range (A)	Cat. No.	M.R.P. (₹) Per Unit	CT	Std. Pkg. (Nos.)
GF1	100 - 200A	<b>ST277450000</b>	<b>11900</b>	Built in CBCT	1
GF2	200 - 400A	<b>ST277460000</b>	<b>18200</b>	Built in CBCT	1
GF11	up to 800A	<b>ST285940000</b>	<b>11000 #</b>	External CT required	1

# External CTs of 5P10 class with secondary rating of 1A or 5A




**Range Highlights**

- › Sub Main Distribution Board (SMDB) with MCCB as incomer and MCCBs as outgoing devices
- › Conforms to IEC 61439-2
- › DEKRA and ASTA certified
- › Rating up to 630 A
- › Short-time withstand current
  - » 250A & 400A SMDB - 36 kA 1s
  - » 630A SMDB - 50 kA 1s
- › Ingress protection - IP 43
- › Choice in number of outgoing ways - 4, 8, 12 and 16
- › Ready to use, off the shelf solution
- › Suitable for [d sine](#) range of MCCBs
- › Metering & cabling extensions are available as accessories

**ENERSYS-S SMDB**

Description	Cat. No.	No of ways		M.R.P. (₹) Per Unit	Height (H) (mm)	Width (W) (mm)	Depth (D) (mm)
		250A	100A				
SMDB - TN250D, O/G 100A 4 ways	DA20D1044CZZ0	-	4	53760	637	670	208.5
SMDB - TN250D, O/G 100A 8 ways	DA20D1084CZZ0	-	8	65385	787	670	208.5
SMDB - TN250D, O/G 100A 12 ways	DA20D1124CZZ0	-	12	82245	937	670	208.5
SMDB - TN250D, O/G 100A 16 ways	DA20D1164CZZ0	-	16	96655	1087	670	208.5
SMDB - TN400D, O/G 100A 4 ways	DA40D1044CZZ0	-	4	60240	937	670	208.5
SMDB - TN400D, O/G 100A 8 ways	DA40D1084CZZ0	-	8	68640	1087	670	208.5
SMDB - TN400D, O/G 100A 12 ways	DA40D1124CZZ0	-	12	88255	1237	670	208.5
SMDB - TN400D, O/G 100A 16 ways	DA40D1164CZZ0	-	16	104025	1387	670	208.5
SMDB - TN630D, O/G 100A 8 ways	DA60D1084CZZ0	-	8	113810	1287	870	208.5
SMDB - TN630D, O/G 100A 12 ways	DA60D1124CZZ0	-	12	153700	1507	870	208.5
SMDB - TN630D, O/G 100A 16 ways	DA60D1164CZZ0	-	16	168475	1507	870	208.5
SMDB - TN630D, O/G 250A 4 ways	DA62D1044CZZ0	4	-	110840	1067	870	208.5
SMDB - TN630D, O/G 250A 8 ways	DA62D1084CZZ0	8	-	124140	1287	870	208.5
SMDB - TN630D, O/G 250A 12 ways	DA62D1124CZZ0	12	-	159610	1507	870	208.5
SMDB - TN630D, O/G 250A 16 ways	DA62D1164CZZ0	16	-	178825	1727	870	208.5
SMDB - TN630D, O/G COMBI 4 ways	DA6AD1044CZZ0	2	2	108625	1067	870	208.5
SMDB - TN630D, O/G COMBI 8 ways	DA6AD1084CZZ0	2	6	118230	1287	870	208.5
SMDB - TN630D, O/G COMBI 12 ways	DA6AD1124CZZ0	2	10	156650	1507	870	208.5
SMDB - TN630D, O/G COMBI 16 ways	DA6AD1164CZZ0	2	14	172905	1507	870	208.5

Incoming Device [8536]			
SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D*	DN1-250C 3 Pole MCCB - 160A	CM9063800MO	17900
	DN1-250C 3 Pole MCCB - 200A	CM906380ONO	22900
	DN1-250C 3 Pole MCCB - 250A	CM906380OPO	26900
TN400D	DN3-400D 3 Pole MCCB - 320A	CM9400500Q10G	42700
	DN3-400D 3 Pole MCCB - 400A	CM9400500R10G	42700
TN630D	DN3-630D 3 Pole MCCB - 500A	CM9400600S10G	50900
	DN3-630D 3 Pole MCCB - 630A	CM9400600T10G	50900

**Note:**

- › While ordering SMDB, incoming and outgoing MCCBs have to be ordered separately.
- › Prices of MCCBs are not included in SMDB prices.

\* TN250D - Suitable for DN1-250N, DU250 & DU250C MCCB as incomer.

Outgoing Device [8536]			
SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D, TN400D & TN630D	DN0-100C 3 Pole MCCB - 20A	CM9161200COOG	10200
	DN0-100C 3 Pole MCCB - 25A	CM9161200DOOG	10200
	DN0-100C 3 Pole MCCB - 32A	CM9161200EOOG	10200
	DN0-100C 3 Pole MCCB - 40A	CM9161200FOOG	10200
	DN0-100C 3 Pole MCCB - 50A	CM9161200GOOG	10200
	DN0-100C 3 Pole MCCB - 63A	CM9161200HOOG	9920
	DN0-100C 3 Pole MCCB - 80A	CM9161200JOOG	9920
	DN0-100C 3 Pole MCCB - 100A	CM9161200KOOG	9920
TN630D	DN1-250C 3 Pole MCCB - 160A	CM9063800MO	17900
	DN1-250C 3 Pole MCCB - 200A	CM906380ONO	22900
	DN1-250C 3 Pole MCCB - 250A	CM906380OPO	26900

DN0, DU100D & DU100H MCCBs are suitable as outgoing devices up to 100A

DN1-250N, DU250 & DU250C MCCBs are suitable as outgoing devices up to 250A

## Metering, Bottom Cabling & Corner Box

- Provision of 3 nos of 1-phase ammeter (96\*96), 1 nos of 1-phase voltmeter (96\*96) with selector switch and indicating lamps.

SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D & TN400D	Metering Extension Box	CM904390OPO	8300
	Bottom Cabling Box	CM904370000	7780
TN630D	Metering Extension Box	CM9106400TO	8750
	Bottom Cabling Box	CM910620000	8230
TN250D, TN400D & TN630D	Corner Box	CM910890000	2890
	Mounting base	CM702600000	3900


**Note:**

- Ammeter, voltmeter, selector switch and indicating lights have to be ordered separately.
- Mounting base to be used without bottom cabling box.

## Side Cabling Box

SMDB Type	No. of Ways		Left		Right	
	250A	100A	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
TN250D	-	4	CM910850D00	7960	CM910860D00	7960
	-	8	CM910850F00	10280	CM910860F00	10280
	-	12	CM910850H00	12320	CM910860H00	12320
	-	16	CM910850K00	14380	CM910860K00	14380
TN400D	-	4	CM910870D00	12320	CM910880D00	12320
	-	8	CM910870F00	14380	CM910880F00	14380
	-	12	CM910870H00	15750	CM910880H00	15750
	-	16	CM910870K00	17800	CM910880K00	17800
TN630D	-	8	CM9112000FO	14920	CM9112100FO	14920
	-	12	CM9112000HO	17380	CM9112100HO	17380
	-	16				
	4	-	CM9112000DO	13370	CM9112100DO	13370
	8	-	CM9112000FO	14920	CM9112100FO	14920
	12	-	CM9112000HO	17380	CM9112100HO	17380
	16	-	CM9112000KO	18940	CM9112100KO	18940
	2	2	CM9112000DO	13370	CM9112100DO	13370
	2	6	CM9112000FO	14920	CM9112100FO	14920
	2	10	CM9112000HO	17380	CM9112100HO	17380
	2	14				





Introducing Lauritz Knudsen's

# FIRST SERVE PROGRAM

Peace of Mind with Priority Service for our Air Circuit Breaker

Avail Exclusive Benefits Under "FIRST SERVE" Program  
for Our Air Circuit Breakers in India



## Benefits

- › **Priority Service:** Enjoy expedited service for our ACB.
- › **Expert Support:** Receive guidance and technical assistance from our team.
- › **Peace of Mind:** Rest assured knowing our ACB is in good hands.

## Eligibility

- › ACB should be within the warranty period.



To learn more about the First Serve Program or to schedule our ACB's first service visit, please contact

**Customer Connect Hub  
at +91-22-6932-7800**





**U-POWER**  
**OMEGA**  
Air Circuit Breakers

**DIGITAL READY SOLUTION TO ENHANCE  
ENERGY EFFICIENCY**

Highest Safety with MTX Protection and Control Unit



Full Uptime with Dual Protection Set Group



Easy Maintenance with Tool Less Arc Chute Removal



Superior Performance With Double Short Circuit Protection



Remote Monitoring & Control with Digicom Module



Advanced Protection with ERMS (Energy Reduction Maintenance Settings)



In-built Industrial Communication Protocol  
(MODBUS TCP/IP - ETHERNET/MODBUS RS485/PROFIBUS)



## U-POWER **OMEGA** Range of Air Circuit Breakers



- › Complete range conforms to IS/IEC 60947-2 & IEC 60947-2
- › Current Rating from **400A to 6300A in 3 Frame sizes** for application voltages upto 690V AC
- › Special ACB range available for Voltage Applications upto 800V AC and 1000V AC<sup>#</sup>
- › Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed/Draw-out version
- › Common Height & Depth across the range
- › High short time fault withstand capacity,  $I_{cu} = I_{cs} = I_{cw}$  for 1 sec for total selectivity
- › High mechanical and electrical operating life
- › Neutral pole is 100% rated, option of 50% & 200% rated neutral also available
- › Available in standard NRYB & RYBN/NBYR/BYRN configurations in 4 Pole ACBs **with on-site change facility**
- › In-built Electrical & Mechanical Anti-Pumping
- › Modular & snap-fit accessories
- › Ease of on-site conversion from Fixed to Draw-out version
- › Pollution Degree 4 suitability
- › Best in Class Overlap with Bus bars
- › Break Time of 25msec
- › RoHS Compliant

### Matrix Protection & Control Units:

- › Available in versions - MTX1.0/1Gi/1.5G/1.5Gi, MTX3.5/3.5EC/3.5H & MTX 3.5T/MTX 3.5ET
- › Unique O-LED display for metering
- › Unique withdrawable Communication & Power metering modules
- › Dual protection curve settings & Password protection
- › Soft-rating plug for precise protection at lower load currents
- › Provision for on-load self-diagnosis of Releases & modules
- › Data communication on Modbus RTU, Modbus TCP/IP (ETHERNET), Profibus & wireless Zigbee protocols
- › Power & Harmonics measurement
- › Temperature rise monitoring & protection
- › Easy to integrate with HMI & PLC
- › Add-on modules for advance protections
- › Protection Releases conform to EMI/EMC standard



UW-MTX1G/1Gi



UW-MTX1.5G/1.5Gi



UW-MTX3.5/3.5EC/3.5H

### Breaking Capacities Offered:



**Integrated MODBUS TCP/IP (ETHERNET) Communicable ACB**

at 415V/440V AC (Please refer Catalogue for Breaking Capacities above 440V AC)

I <sub>cu</sub> = I <sub>cs</sub> = I <sub>cw</sub> for 1 sec										
Rated current	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6300A
Frame-1	N : 50kA									
	S : 65kA									
	H : 80kA									
UW1-08 UW1-10 UW1-12 UW1-16 UW1-20 UW1-25										
Frame-2	N : 50kA									
	S : 65kA									
	H : 80kA									
UW2-08 UW2-10 UW2-12 UW2-16 UW2-20 UW2-25 UW2-32 UW2-40										
Frame-3	H : 80kA									
	V : 100kA									
UW3-08 UW3-10 UW3-12 UW3-16 UW3-20 UW3-25 UW3-32 UW3-40 UW3-50 UW3-63										

Note: 400A & 630A ACBs are also available on request. # Please contact the nearest branch office for more details of 1000V AC ACBs



## ACB ordering information:

UW	1	08	N	X	D	1	2	9	0	0#	UW1 800N 3P ED 1.5G BotV						
Frame Size											Selection for Termination (For Drawout ACBs Only)						
<i>Frame - I</i>		Standard Termination											0				
Frame - II		For Top Horizontal (Long), Bottom Vertical for Fr2 & Fr3											X				
Frame - III		For Top & Bottom Horizontal (Long) for Fr3											Y				
Note: X is applicable for 4000A (Fr2 & Fr3) and 5000A (Fr3). Y is applicable for 4000A (Fr3) & 5000A (Fr3). X & Y recommended for Buscoupler only.																	
For 800V AC Application											ZM						
For 1000V AC Application											ZH						
Current Ratings																	
400A	04		Temperature Rise Monitoring <sup>(3)</sup>														
630A	06		<i>Not Required</i>											0			
<b>800A</b>	<b>08</b>		<i>Required</i>											1			
1000A	10		Selection for P&C Units														
1250A	12		B/C (w/o protection)											0			
1600A	16		UW - MTX1.0											7			
2000A	20		UW - MTX1G											8			
2500A <sup>(4)</sup>	25		UW - MTX1Gi											B			
3200A	32		<b>UW - MTX1.5G</b>											9			
4000A	40		UW - MTX1.5Gi											C			
5000A	50		UW-MTX3.5											3			
6300A	63		UW-MTX3.5EC <sup>(5)</sup>											4			
Selection for Breaking Capacity (Icu=Ics) <sup>(1)</sup>																	
50kA (Fr-I upto 2000A & Fr-II upto 4000A)	N		UW-MTX4.5											5			
65kA (Fr-I & Fr-II)	S		UW-MTX3.5H											6			
80kA (Fr-I, Fr-II & Fr-III)	H		UW-MTX3.5T <sup>(8)</sup>											D			
100kA (Fr-III)	V		UW-MTX3.5ET <sup>(8)</sup>											E			
Please Note:																	
(1) For Icw values please refer technical specification																	
(2) Other options of control voltage are available as accessory																	
(3) Temperature monitoring & protection is available only for Drawout type ACBs with MTX3.5 Series & above releases																	
(4) For Fr-1, 2500A selection, please contact the nearest branch office																	
(5) For system requiring 690V metering, kindly order separate Power Metering module with MTX3.5.																	
(6) For MTX3.5A technical specifications please get in touch with the local sales team																	
(7) For Cradle Cat Number last 5 digits shall be "00000" of any combination																	
(8) MODBUS TCP/IP (Ethernet) ready ACB as an Integrated Release Offering																	
<b>OMEGA ACBs are offered with following standard features</b>																	
Draw-out Version:																	
OMEGA ACBs with UW-MTX release will have inbuilt-Current Metering (MTX 1.5G/1.5Gi/3.5 Series/4.5 Series), Common Fault Indication microswitch, 4NO+4NC Aux. contacts, Smart-racking shutter, Safety shutter assembly, Racking Handle, Door sealing frame, Pad-locking arrangement for ON/OFF button, Rating Error Preventer, Arc shield.																	
A) For ratings upto 1600A, one side vertical terminal adaptors (Bottom) for Frame 1, 2 & 3.																	
B) For ratings 2000A & above, both side vertical terminal adaptors (Top & Bottom) for Frames 1, 2 & 3.																	
C) For rating 4000A and above operation counter inbuilt for Frames 2 & 3 both.																	
Fixed Version:																	
OMEGA ACBs with UW-MTX release will have inbuilt-Current Metering (MTX 1.5G/1.5Gi/3.5 Series/4.5 Series), Common Fault Indication microswitch, 4NO+4NC Aux. contacts, Door sealing frame & Pad-locking arrangement for ON/OFF push button.																	
A) For ratings upto 1600A, one side vertical terminal adaptors (Bottom) for Frames 1, 2 & 3.																	
B) For ratings 2000A & above, both side vertical terminal adaptors (Top & Bottom) for Frames 1, 2 & 3.																	
C) For ratings 4000A & above, operation counter inbuilt for Frames 2 & 3 both.																	

# Please contact the nearest branch office for more details of 800V & 1000V AC ACBs

Lauritz Knudsen, 01.10.2025

## ACBs upto 690V AC with UW-MTX1G (LSING - BCD Switches) and UW-MTX1.5G (LSING + Current Metering - BCD Switches) [8536]



Current Rating	Version	Breaking Capacity @ 415V AC	3 Pole Manual Draw-out ACB				4 Pole Manual Draw-out ACB			
			UW-MTX1G		UW-MTX1.5G		UW-MTX1G		UW-MTX1.5G	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	50kA	UW108NXD01800	218600	UW108NXD01900	233300	UW108NFD01800	273000	UW108NFD01900	287700
1000A			UW110NXD01800	225900	UW110NXD01900	240600	UW110NFD01800	290400	UW110NFD01900	305100
1250A			UW112NXD01800	242900	UW112NXD01900	257600	UW112NFD01800	314000	UW112NFD01900	328700
1600A			UW116NXD01800	282000	UW116NXD01900	296700	UW116NFD01800	351800	UW116NFD01900	366500
2000A			UW120NXD01800	329800	UW120NXD01900	344500	UW120NFD01800	413200	UW120NFD01900	427900
2500A			UW225NXD01800	421500	UW225NXD01900	436200	UW225NFD01800	506800	UW225NFD01900	521500
3200A			UW232NXD01800	503800	UW232NXD01900	518500	UW232NFD01800	618600	UW232NFD01900	633300
4000A			UW240NXD01800	580500	UW240NXD01900	595200	UW240NFD01800	706300	UW240NFD01900	721000

Current Rating	Version	Breaking Capacity @ 415V AC	3 Pole Manual Fixed ACB				4 Pole Manual Fixed ACB			
			UW-MTX1G		UW-MTX1.5G		UW-MTX1G		UW-MTX1.5G	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MF	50kA	UW108NXF01800	168200	UW108NXF01900	182900	UW108NFF01800	210000	UW108NFF01900	224700
1000A			UW110NXF01800	173800	UW110NXF01900	188500	UW110NFF01800	223400	UW110NFF01900	238100
1250A			UW112NXF01800	186800	UW112NXF01900	201500	UW112NFF01800	241500	UW112NFF01900	256200
1600A			UW116NXF01800	216900	UW116NXF01900	231600	UW116NFF01800	270600	UW116NFF01900	285300
2000A			UW120NXF01800	253700	UW120NXF01900	268400	UW120NFF01800	317800	UW120NFF01900	332500
2500A			UW225NXF01800	324200	UW225NXF01900	338900	UW225NFF01800	389800	UW225NFF01900	404500
3200A			UW232NXF01800	387500	UW232NXF01900	402200	UW232NFF01800	475800	UW232NFF01900	490500
4000A			UW240NXF01800	446500	UW240NXF01900	461200	UW240NFF01800	543300	UW240NFF01900	558000

M.R.P. changes for product customization								M.R.P. (₹) Per Unit
MDO to EDO or MF to EF Conversion kit (ECD + CR + SR)								60500
Buscoupler (without protection release)								
UW-MTX1.0 (LSI - BCD Switches)								
UW-MTX1Gi (LSING + Inbuilt ZSI - BCD Switches)								
UW-MTX1.5Gi (LSING + Current Metering + Inbuilt ZSI - BCD Switches)								
UW-MTX3.5 (LSING + Current Metering) + can be upgraded for Power Metering & Communication								
UW-MTX3.5EC (LSING + Power Metering + Communication)								
UW-MTX3.5H (LSING + Power Metering + Harmonic Metering)								*
UW-MTX4.5 (LSING + Power Metering + Harmonic Metering + Communication with Touch Screen navigation + PS Module)								
<b>PS (Auxiliary power supply module for display in No-load or OFF condition)**\$</b>								
COM Module (MODBUS) for communication\$								
PM Module for power metering\$								
<b>New UW-MTX3.5T (LSING + Current Metering + MODBUS TCP/IP (ETHERNET) Communication) + can be upgraded for Power Metering#</b>								
<b>New UW-MTX3.5ET (LSING + Power Metering +MODBUS TCP/IP (ETHERNET) Communication) #</b>								

\* Available on request

\*\* Applicable only for MTX 1Gi, MTX 1.5Gi & MTX 3.5 Series

# Integrated Release along with ACB - available as Factory-fitted option only

\$ Chapter ID [8538]

## 3 Pole ACBs upto 690V AC with UW-MTX1G (LSING - BCD Switches) [8536]



Current Rating	Version	3 Pole Manual Draw-out ACB with UW-MTX1G					
		S (65kA @ 415V AC)		H (80kA @ 415V AC)		V (100kA @ 415V AC)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	UW108SXD01800	*	UW108HxD01800	*	UW308VxD01800	*
1000A		UW110SXD01800		UW110HxD01800		UW310VxD01800	
1250A		UW112SXD01800		UW112HxD01800		UW312VxD01800	
1600A		UW116SXD01800		UW116HxD01800		UW316VxD01800	
2000A		UW120SXD01800		UW120HxD01800		UW320VxD01800	
2500A		UW225SXD01800		UW225HxD01800		UW325VxD01800	*
3200A		UW232SXD01800		UW232HxD01800		UW332VxD01800	
4000A		UW240SXD01800		UW240HxD01800		UW340VxD01800	
4000A		-		UW340HxD01800		UW340VxD01800	
5000A		-		UW350HxD01800		UW350VxD01800	
6300A		-		UW363HxD01800		UW363VxD01800	

3 Pole Manual Fixed ACB with UW-MTX1G							
800A	MF	UW108SXF01800	*	UW108HxF01800	*	UW308VxF01800	
1000A	MF	UW110SXF01800	*	UW110HxF01800	*	UW310VxF01800	*
1250A		UW112SXF01800		UW112HxF01800		UW312VxF01800	
1600A		UW116SXF01800		UW116HxF01800		UW316VxF01800	
2000A		UW120SXF01800		UW120HxF01800		UW320VxF01800	
2500A		UW225SXF01800		UW225HxF01800		UW325VxF01800	
3200A		UW232SXF01800		UW232HxF01800		UW332VxF01800	
4000A		UW240SXF01800		UW240HxF01800		UW340VxF01800	
4000A		-		UW340HxF01800		UW340VxF01800	
5000A		-		UW350HxF01800		UW350VxF01800	
6300A		-		UW363HxF01800		UW363VxF01800	

M.R.P. changes for product customization	M.R.P. (₹) Per Unit
MDO to EDO or MF to EF Conversion kit (ECD + CR + SR)	60500
Buscoupler (without protection release)	
UW-MTX1.0 (LSI - BCD Switches)	
UW-MTX1Gi (LSING + Inbuilt ZSI - BCD Switches)	
UW-MTX1.5G (LSING + Current Metering - BCD Switches)	
UW-MTX1.5Gi (LSING + Current Metering + Inbuilt ZSI - BCD Switches)	
UW-MTX3.5 (LSING + Current Metering) + can be upgraded for Power Metering & Communication	
UW-MTX3.5EC (LSING + Power Metering + Communication)	*
UW-MTX3.5H (LSING + Power Metering + Harmonic Metering)	
UW-MTX4.5 (LSING + Power Metering + Harmonic Metering + Communication with Touch Screen navigation + PS Module)	
PS (Auxiliary power supply module for display in No-load or OFF condition)**	
COM Module (MODBUS) for communication\$	
PM Module for power metering\$	
<b>New</b> UW-MTX3.5T (LSING + Current Metering + MODBUS TCP/IP (ETHERNET) Communication) + can be upgraded for Power Metering#	
<b>New</b> UW-MTX3.5ET (LSING + Power Metering +MODBUS TCP/IP (ETHERNET) Communication) #	

\* Available on request

\*\* Applicable only for MTX 1Gi, MTX 1.5Gi & MTX 3.5 Series

# Integrated Release along with ACB - available as Factory-fitted option only

\$ Chapter ID [8538]



## 4 Pole ACBs upto 690V AC with UW-MTX1G (LSING - BCD Switches) [8536]



Current Rating	Version	4 Pole Manual Draw-out ACB with UW-MTX1G					
		S (65kA @ 415V AC)		H (80kA @ 415V AC)		V (100kA @ 415V AC)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	UW108SFD01800	*	UW108HFD01800	*	UW308VFD01800	
1000A		UW110SFD01800		UW110HFD01800		UW310VFD01800	
1250A		UW112SFD01800		UW112HFD01800		UW312VFD01800	
1600A		UW116SFD01800		UW116HFD01800		UW316VFD01800	
2000A		UW120SFD01800		UW120HFD01800		UW320VFD01800	
2500A		UW225SFD01800		UW225HFD01800		UW325VFD01800	*
3200A		UW232SFD01800		UW232HFD01800		UW332VFD01800	
4000A		UW240SFD01800		UW240HFD01800		UW340VFD01800	
4000A		-		UW340HFD01800		UW340VFD01800	
5000A		-		UW350HFD01800		UW350VFD01800	
6300A		-		UW363HFD01800		UW363VFD01800	

4 Pole Manual Fixed ACB with UW-MTX1G							
800A	MF	UW108SFF01800	*	UW108HFF01800	*	UW308VFF01800	
1000A		UW110SFF01800		UW110HFF01800		UW310VFF01800	
1250A		UW112SFF01800		UW112HFF01800		UW312VFF01800	
1600A		UW116SFF01800		UW116HFF01800		UW316VFF01800	
2000A		UW120SFF01800		UW120HFF01800		UW320VFF01800	
2500A		UW225SFF01800		UW225HFF01800		UW325VFF01800	*
3200A		UW232SFF01800		UW232HFF01800		UW332VFF01800	
4000A		UW240SFF01800		UW240HFF01800		UW340VFF01800	
4000A		-		UW340HFF01800		UW340VFF01800	
5000A		-		UW350HFF01800		UW350VFF01800	
6300A		-		UW363HFF01800		UW363VFF01800	

\* Available on request

## Accessories of OMEGA Air Circuit Breakers [8538]

### Terminal Adaptor configuration upto 690V AC



Draw-out ACBs Terminal Adaptors



Fixed ACBs Terminal Adaptors

Description	Cat. No.	M.R.P. (₹) Per Unit	Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Terminal Adaptor for Draw-out Omega ACBs</b>					
Frame-1 400-1000A N/S/H (Vertical / Horizontal)	CL604380000		Terminal Adaptor for Fixed Omega ACBs		
Frame-1 1250-2000A N/S/H (Vertical / Horizontal)	CL609630000		Frame-1 400-2000A N/S (Vertical / Horizontal)	CL609670000	
Frame-1 2500A S/H (Vertical)	CL609640000		Frame-1 400-2000A H (Vertical / Horizontal)	CL609680000	
Frame-2 400-3200A N/S/H (Vertical / Horizontal)	CL604200000		Frame-1 2500A S/H (Vertical)	CL609760000	
Frame-2 4000A N/S/H (Vertical)	CL604200000		Frame-2 400-2500A N/S (Vertical / Horizontal)	CL601220000	
Frame-2 4000A N/S/H (Horizontal)	CL603160000		Frame-2 400-3200A H, 3200A N/S (Vertical / Horizontal)	CL609770000	*
Frame-3 400-4000A H/V (Vertical) <sup>#</sup>	CL601280000		Frame-2 4000A S/H (Vertical)	CL604170000	
Frame-3 400-4000A H/V (Horizontal-Long)	CL600730000		Frame-3 400-4000A H/V (Vertical) <sup>#</sup>	CL604180000	
Frame-3 5000A H/V (Horizontal-Long)	CL609660000		Frame-3 5000A H/V (Vertical) <sup>#</sup>	CL603470000	
Frame-3 5000A H/V (Vertical) <sup>#</sup>	CL600670000		Frame-3 400-5000A H/V (Horizontal-Long)	CL603730000	
Frame-3 6300A H/V (Vertical) <sup>#</sup>	CL609650000				

# : Please consider 4 terminal adaptors per phase.

# : Please consider 4 terminal adaptors per phase.



## 800V AC ACBs with UW-MTX1G (LSING - BCD Switches) [8536]

Breaking Capacity @ 800V AC (Icu=Ics=Icw for 1s)



800V AC Manual Fixed/Draw-out ACB with UW-MTX1G

Current Rating	Frame	Breaking Capacity @ 800V AC	3P				4P			
			Fixed		Draw-out		Fixed		Draw-out	
			Cat. No.	M.R.P. (₹) Per Unit						
800A	1	50kA	UW108NXF0180ZM	*	UW108NXD0180ZM	*	UW108NFF0180ZM	*	UW108NFD0180ZM	*
1000A			UW110NXF0180ZM		UW110NXD0180ZM		UW110NFF0180ZM		UW110NFD0180ZM	
1250A			UW112NXF0180ZM		UW112NXD0180ZM		UW112NFF0180ZM		UW112NFD0180ZM	
1600A			UW116NXF0180ZM		UW116NXD0180ZM		UW116NFF0180ZM		UW116NFD0180ZM	
2000A			UW120NXF0180ZM		UW120NXD0180ZM		UW120NFF0180ZM		UW120NFD0180ZM	
2000A	2	50kA	UW220NXF0180ZM	*	UW220NXD0180ZM	*	UW220NFF0180ZM	*	UW220NFD0180ZM	*
2500A			UW225NXF0180ZM		UW225NXD0180ZM		UW225NFF0180ZM		UW225NFD0180ZM	
3200A			UW232NXF0180ZM		UW232NXD0180ZM		UW232NFF0180ZM		UW232NFD0180ZM	
4000A			-		UW240NXD0180ZM		-		UW240NFD0180ZM	
3200A	3	50kA	UW332NXF0180ZM	*	UW332NXD0180ZM	*	UW332NFF0180ZM	*	UW332NFD0180ZM	*
4000A			UW340NXF0180ZM		UW340NXD0180ZM		UW340NFF0180ZM		UW340NFD0180ZM	
5000A			UW350NXF0180ZM		UW350NXD0180ZM		UW350NFF0180ZM		UW350NFD0180ZM	
3200A	3	65kA	UW332SXF0180ZM	*	UW332SXD0180ZM	*	UW332SFF0180ZM	*	UW332SFD0180ZM	*
4000A			UW340SXF0180ZM		UW340SXD0180ZM		UW340SFF0180ZM		UW340SFD0180ZM	
5000A			UW350SXF0180ZM		UW350SXD0180ZM		UW350SFF0180ZM		UW350SFD0180ZM	

Note: 1. Above mentioned Cat. No. of ACBs are without Terminal Adaptors. Please consider Terminal Adaptors from below table.

2. Phase-Barriers are mandatory to be used with 800V AC ACBs:

- (a) For Draw-out ACBs, Phase-Barriers are provided as standard supply along with ACBs
- (b) For Fixed ACBs, kindly consider Phase-Barriers from below table

M.R.P. changes for product customization								M.R.P. (₹) Per Unit
Buscoupler (without protection release)								
UW-MTX1.0 (LSI - BCD switch for selection)								
UW-MTX1G (LSING - BCD switch for selection)								
UW-MTX1.5G (LSING + display - BCD switch for selection)								*
UW-MTX3.5 (LSING + Display + Option for other features)								
UW-TM - Temperature Rise Module (for MTX3.5)								
MDO to EDO or MF to EF Conversion kit (ECD + CR + SR)								
COM Module (MODBUS) for communication								
PS (Auxiliary power supply module for display in No-load or OFF condition)**								

\*\* Applicable only for MTX 1Gi, MTX 1.5Gi & MTX 3.5 Series

## Terminal Adaptors for 800V ACBs [8538]

Current Rating	Frame	Fixed			Draw-out		
		Cat. No.	M.R.P. (₹) Per Unit	Qty (3P/4P)	Cat. No.	M.R.P. (₹) Per Unit	Qty (3P/4P)
630A	1	CL609670000	*	(6/8)	CL609630000	*	(6/8)
800A		CL609670000		(6/8)	CL609630000		(6/8)
1000A		CL609670000		(6/8)	CL609630000		(6/8)
1250A		CL609670000		(6/8)	CL609630000		(6/8)
1600A		CL609670000		(6/8)	CL609630000		(6/8)
2000A	2	CL601220000	*	(6/8)	CL609640000	*	(6/8)
2000A		CL609770000		(6/8)	CL609640000		(6/8)
2500A		CL603180000		(6/8)	CL609640000		(6/8)
3200A		CL604170000		(6/8)	CL604190000		(6/8)
4000A		-		-	CL604200000		(6/8)
3200A	3	CL604180000	*	(12/16)	CL601280000	*	(12/16)
4000A		CL604180000		(12/16)	CL600670000		(12/16)
5000A		CL603470000		(12/16)	CL609650000		(12/16)

Draw-out ACBs Terminal Adaptors

Fixed ACBs Terminal Adaptors

## Phase-Barriers for 800V AC Fixed ACBs [8538]

Cat. No.	Type	Pole	M.R.P. (₹) Per Unit	Qty. per ACB
CL912580000	Fixed	3P	*	2
CL912590000	Fixed	4P		2

\* Available on request

Note: Please contact the nearest branch office for more details of 1000V AC ACBs

Lauritz Knudsen, 01.10.2025

**U-POWER**  
**Accessories of OMEGA Air Circuit Breakers**  
 Air Circuit Breakers



Operation Counter



Door Interlock



Closing Release



Shunt Release



UV Release

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Other Accessories [8538]</b>		
Operation Counter	CL909830000#	
Door Interlock	CL909780000	*
Electrical Position Indication (EPI)	CL958260000	
<b>Microswitches for Indication [8536]</b>		
Microswitch for Common Fault Indication (CFI)	CL909490000	
Microswitch for Ready To Close Indication (RTC)	CL909530000^	
Microswitch for Shunt Release	CL909510000	*
Microswitch for Undervoltage Release	CL909470000	
Microswitch for Spring Charging Indication	ST426720000	

# Operation Counter inbuilt for rating 4000A to 6300A

^ Cradle SIC block CL958250000 needs to be ordered separately,  
If EPI not installed in same ACB



R-Lock



C-Lock

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Mechanical Interlock using Key &amp; Lock\$</b>		
R - Lock Type - 1	CL006590000	
R - Lock Type - 2	CL006600000	
R - Lock Type - 3	CL006610000	
R - Lock Type - 12	CL006620000	
R - Lock Type - 23	CL006630000	
Locking arrangement for OFF button with R - Lock (on breaker)	CL908150000	
Locking arrangement for ISO position with R - Lock (on Cradle)	CL908650000	
Locking arrangement for ANY position with R - Lock (on Cradle)	CL909270000	*
C - Lock Type - S	CL006640000	
C - Lock Type - T	CL006650000	
C - Lock Type - ST	CL006660000	
C - Lock Type - SS	CL006670000	
C - Lock Type - TT	CL006680000	
Locking arrangement for OFF button with C - Lock (on breaker)	CL908140000	
Locking arrangement for ISO position for C - Lock (on Cradle)	CL909820000	
Locking arrangement for ANY position with C - Lock (on Cradle)	CL909810000	

**Note:** For Mechanical Interlock using Key & Lock please order combination of Lock and Locking arrangement.

\* Available on request    \$ Only locks [8301] Locking arrangement [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Electrical Charging Device (ECD) [8501]</b>		
24-30V DC	CL903620000	
48/60V DC	CL903630000	
110V AC / 110-125V DC	CL903600000	*
220V AC / 200V DC	CL903640000	
240V AC / 250V DC	CL903590000	
415V AC / 400V DC	CL903610000	
<b>Closing Release (CR) [8538]</b>		
24-30V DC	CL908174000	
48/60V DC	CL908175000	
110V AC / 110V DC	CL90817A000	*
125/127V DC	CL908171000	
220 - 240V AC / 220 - 250V DC	CL90817B000	
415V AC	CL90817D000	
<b>Shunt Release (SR) [8538]</b>		
24-30V DC	CL908160400	
48/60V DC	CL908160500	
110V AC / 110V DC	CL908160A00	*
125/127V DC	CL908160100	
220 - 240V AC / 220 - 250V DC	CL908160B00	
415V AC	CL908160D00	
<b>Under Voltage Release (UVR) with time delay (0-1-3-5 sec) [8538]</b>		
24-30V DC	CL908184000	
48V DC	CL908185000	
110V AC / 110V DC	CL90818A000	*
240V AC / 220V DC	CL90818B000	
415V AC	CL90818D000	



Neutral CT

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>External Neutral CT for UW-MTX Releases [8504]</b>		
Frame-1, 2 & 3 400-800A	CL007170000	
Frame-1, 2 & 3 1000-1600A	CL007180000	
Frame-1 2000-2500A	CL007190000	*
Frame-2 & 3 2000-4000A	CL007200000	
Frame-3 5000-6300A	CL007210000	

## Automatic Transfer Controllers (ATC) [9032]



AuXC-2000 Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 controller**	ATC20000000	33200	1

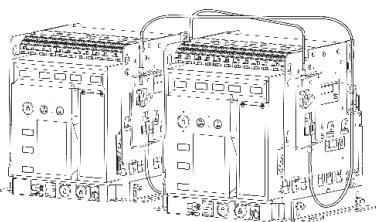
Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

\*\* Note: For communication version of AuXC controller refer page no-6



For AuXC 2000/2100 programming videos and more details  
please scan the QR code or click here

**U-POWER**  
**Accessories of OMEGA** Air Circuit Breakers  
 Air Circuit Breakers



Mechanical Interlock using Bowden Cable [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Mechanical Interlock using Bowden Cable (5 meters length)</b>		
Between 2 Incomers	CL906630000	
Between 3 Incomers	CL906640000	*
Between 2 Incomers & 1 Standby	CL906650000	
Between 2 Incomers & 1 Buscoupler	CL906660000	
<b>Mechanical Interlock using Bowden Cable (3 meters length)</b>		
Between 2 Incomers	CL906590000	
Between 3 Incomers	CL906600000	*
Between 2 Incomers & 1 Standby	CL906610000	
Between 2 Incomers & 1 Buscoupler	CL906620000	
<b>Mechanical Interlock using Bowden Cable (2 meters length)</b>		
Between 2 Incomers	CL908100000	
Between 3 Incomers	CL908110000	*
Between 2 Incomers & 1 Standby	CL908120000	
Between 2 Incomers & 1 Buscoupler	CL908130000	

Note: Common from 400A to 6300A and can be interlocked between Fixed / Draw-out / Mixed version

\* Available on request



MODBUS Module



Power Metering Module

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>MATRIX Releases &amp; Modules [8538]</b>		
UW-MTX1.0	CL919660000	
UW-MTX1G	CL919710000	
UW-MTX1Gi	CL905620000	
UW-MTX1.5G	CL919650000	
UW-MTX1.5Gi	CL905520000	
UW-MTX3.5	CL906450000	
UW-MTX3.5EC	CL906440000	
UW-MTX3.5H	CL906460000	
UW-MTX4.5	*	
New UW-MTX3.5T	#	
New UW-MTX3.5ET	#	
New UW-MTX4.5T	#	
New UW-MTX3.5A	*	
Power supply module with 2 Ports	CL907220000	*
1A Power supply module	CL918950000	
DigiCom Module	CL918960000	
Relay Module	CL907160000	
MODBUS Module	CL907090000	
Profibus Module	CL902950000	
Matrix Smart Card Module	CL907050000	
Power Metering Module (415V)	CL906490000	
Power Metering Module (690V)	CL906850000	
ZSI Module	CL907180000	
TCS Module	CL907190000	
EL Module	CL907200000	
REF Module	CL907210000	
Simulation Kit	CL907240000	

For Energy Management Communication Software Please contact the nearest branch office

# Integrated Release along with ACB - available as Factory-fitted option only

## Upgrade to the new-age OMEGA ACB with Minimal Modifications



Pre-Engineered Retrofit Solution  
 Upgrade CNCS ACB to OMEGA ACB

Presenting the pre-engineered CNCS to OMEGA Retrofit kit

CNCS to OMEGA Retrofit kit is a pre-engineered solution which allows you to upgrade from the old CNCS ACB to the advanced OMEGA ACB - with minimal modification. All installations are done by trained Engineers from the nearest Authorised Service Centre to ensure total reliability and minimum shut-down time.

### Specifications

- › ETP grade Copper links with Silver Plating
- › CNCS to OMEGA Retrofit solution is available from 800A to 3200A



For more details please scan the QR code or click here

For retrofitting of any ACB to Omega ACB please contact the nearest branch office

Customer Interaction Center (CIC)

Phone no: 022-6932 7800

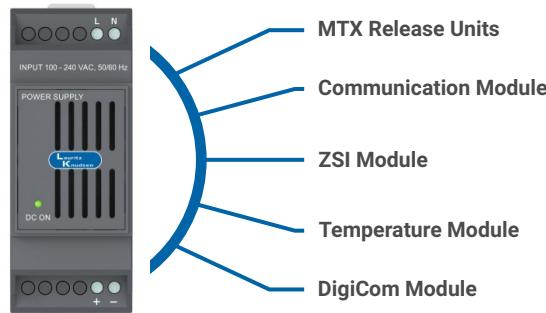
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Lauritz Knudsen, 01.10.2025



## New Power Supply Module (230V AC - 24V DC 1A)

- › 100-265V AC Input Voltage
- › Regulated 24V DC Output Voltage
- › Suitability of up to 1 Amp Loading
- › Compact (2M) and Modular Design
- › Suitable for DIN Rail & Base mounting



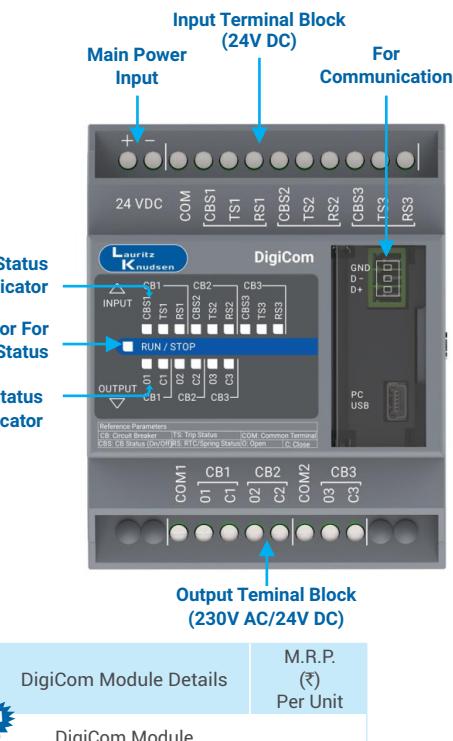
PS Module Details	Function	Module Compatibility	M.R.P. (₹) Per Unit
PS Module (CAT Code: CL918950000)	Suitable for providing regulated 24V DC Power Supply	All MTX Release Units for Powering ON, MODBUS Module, ZSI Module, Temperature Module, UN-CO Module & DigiCom Module	7500
UW-PS Module (CAT Code: CL907220000)	Suitable for providing regulated 24V DC Power Supply and Internal Communication Bus	All MTX Release Units and MTX Modules	20400

## New DigiCom Module

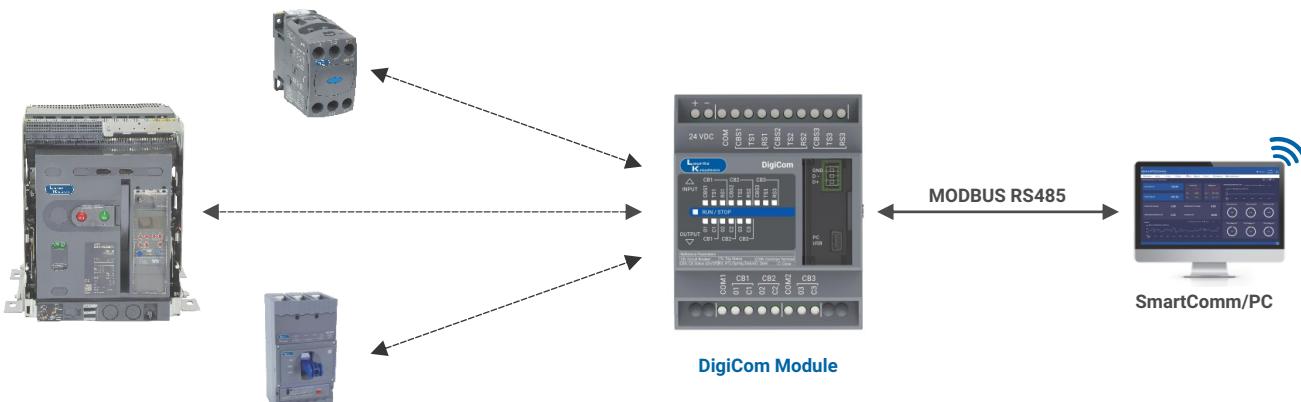
### Status Monitoring & Control of up to 3 Circuit Breakers

- › 3 Digital Inputs for 3 Circuit Breakers - 9 Digital Inputs
- › 2 Relay Outputs for 3 Circuit Breakers – 6 Relay Outputs
- › 24V DC Input Voltage
- › Status Monitoring & Control of up to 3 Circuit Breakers through communication over MODBUS RTU protocol with RS 485 port.
- › **For optimal performance, CFI and RTC micro switches should be selected along with the ACB.**

Input Status Indicator	CB1	CBS1	ON/OFF Indication for Circuit Breaker 1
		TS1	Trip status Indication for Circuit Breaker 1
		RS1	Ready spring/Ready to Close Status Indication for Circuit Breaker 1
	CB2	CBS2	ON/OFF Indication for Circuit Breaker 2
		TS2	Trip status Indication for Circuit Breaker 2
		RS2	Ready spring/Ready to Close Status Indication for Circuit Breaker 2
	CB3	CBS3	ON/OFF Indication for Circuit Breaker 3
		TS3	Trip status Indication for Circuit Breaker 3
		RS3	Ready spring/Ready to Close Status Indication for Circuit Breaker 3
Output Status Indicator	CB1	O1	Open Circuit Breaker 1
		C1	Close Circuit Breaker 1
	CB2	O2	Open Circuit Breaker 2
		C2	Close Circuit Breaker 2
	CB3	O3	Open Circuit Breaker 3
		C3	Close Circuit Breaker 3



### Connection Architecture of DigiCom



## C-POWER Air Circuit Breakers

### C-POWER S1 Range of Air Circuit Breakers

- › Conforms to IS/IEC 60947-2 & IEC 60947-2
- › Current rating from 400A to 3200A
- › Available in 50kA & 60kA breaking capacity
- › Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- › High short time withstand capacity,  $I_{cu} = I_{cs} = I_{cw}$  for 1 sec for total selectivity
- › High mechanical and electrical operating life
- › 100% rated neutral pole
- › Common height and depth across the range
- › Protection through Thermal - Magnetic (DN1) & Microprocessor releases (SR18G, SR18G+D & SR18Gi+D)
- › Self diagnostic Microprocessor based Releases with on-load testing through TEST button
- › Inbuilt thermal memory
- › Protection Releases conform to EMI/EMC standards
- › Breaker Status and Control through MODBUS protocol



**C-POWER S1 ACB**



**C-POWER C ACB**

### C-POWER C Range of Air Circuit Breakers

- › Conforms to IS/IEC 60947-2 & IEC 60947-2
- › Current rating from 800A to 6300A
- › Available in 50,55,60 & 95kA breaking capacity
- › Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- › High short time fault withstanding capacity,  $I_{cu} = I_{cs} = I_{cw}$  for 1 sec for total selectivity
- › High mechanical and electrical operating life
- › 100% rated neutral pole
- › Protection through Thermal - Magnetic (DN1) & Microprocessor releases (SR18G, SR18G+D, SR18Gi+D)
- › Self diagnostic Microprocessor based Releases with on-load testing through TEST button
- › Inbuilt thermal memory
- › Protection Releases conform to EMI/EMC standards
- › Data communication & Power Management
- › Breaker Status and Control through MODBUS protocol

### C-POWER HE ACBs for Harsh Environment

- › Designed to operate at peak efficiency in Sulphur-rich Harsh corrosive environments
- › Range 1250A to 5000A, 415/690V ac
- › Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed and Draw-out versions
- › Protection through Microprocessor release
- › Operates reliably in 3C4 environmental conditions containing SO<sub>2</sub> and H<sub>2</sub>S

Please contact the nearest branch office for Details & product Selection



**C-POWER HE Range**

<b><math>I_{cu} = I_{cs} = I_{cw}</math> for 1 sec</b>											
	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6300A
<b>CN-CS : E / G</b>	50kA	50kA	50kA	50kA	50kA	50kA					
Frame-1											
<b>CN-CS : S1</b>	50kA	50kA	50kA	50kA	50kA	50kA	60kA	60kA			
Frame-1						Frame-2					
<b>CN-CS : C</b>	50kA	50kA	50kA	50kA	55kA	60kA			95kA	95kA	
<b>CN-CS : H</b>	65kA	65kA	65kA	65kA	75kA	75kA			75kA	75kA	
<b>CN-CS : H2</b>									100kA	100kA	
<b>CN-CS : H / H1</b>									75kA	75kA	
<b>CN-CS : HE</b>			50kA		60kA				95kA	95kA	
	Frame-1				Frame-2		Frame-3		Frame-4		

For technical & dimension details please refer product catalogue. 400A ACB also available on request.



## C-POWER Air Circuit Breakers [8536]



### C-POWER S1 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity Icu=Ics=lcw (1 sec)	Version
630A	50kA	MDO
		EDO
800A	50kA	MDO
		EDO
1000A	50kA	MDO
		EDO
1250A	50kA	MDO
		EDO
1600A	50kA	MDO
		EDO
2000A	50kA	MDO
		EDO
2500A	60kA	MDO
		EDO

Microprocessor Based SR18G			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL96041	225200	SL96061	282500
SL96051	280300	SL96071	337600
SL96042	225200	SL96062	282500
SL96052	280300	SL96072	337600
SL96043	234100	SL96063	295900
SL96053	289200	SL96073	351000
SL96044	258300	SL96064	325800
SL96054	313400	SL96074	380900
SL96045	294500	SL96065	362200
SL96055	349600	SL96075	417300
SL96046	345900	SL96066	424900
SL96056	401000	SL96076	480000
SL96047	427600	SL96067	515400
SL96057	482700	SL96077	570500

Thermal-Magnetic DN1			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95331	221100	SL95351	278400
SL95341	276200	SL95361	333500
SL95332	221100	SL95352	278400
SL95342	276200	SL95362	333500
SL95333	230000	SL95353	291800
SL95343	285100	SL95363	346900
SL95334	254200	SL95354	321700
SL95344	309300	SL95364	376800
SL95335	290400	SL95355	358100
SL95345	345500	SL95365	413200
SL95336	341800	SL95356	420800
SL95346	396900	SL95366	475900
SL95337	423500	SL95357	511300
SL95347	478600	SL95367	566400

### C-POWER S1 3 & 4 Pole Fixed ACBs

Rating	Breaking Capacity Icu=Ics=lcw (1 sec)	Version
630A	50kA	MF
		EF
800A	50kA	MF
		EF
1000A	50kA	MF
		EF
1250A	50kA	MF
		EF
1600A	50kA	MF
		EF

Microprocessor Based SR18G			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95561	138100	SL95581	176100
SL95571	193200	SL95591	231200
SL95562	138100	SL95582	176100
SL95572	193200	SL95592	231200
SL95563	150900	SL95583	190400
SL95573	206000	SL95593	245500
SL95564	173800	SL95584	217200
SL95574	228900	SL95594	272300
SL95565	192700	SL95585	247800
SL95575	247800	SL95595	302900

Note : Add a Suffix "0000" for all the above mentioned cat. nos.

Thermal-Magnetic DN1			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95481	134000	SL95501	172000
SL95491	189100	SL95511	227100
SL95482	134000	SL95502	172000
SL95492	189100	SL95512	227100
SL95483	146800	SL95503	186300
SL95493	201900	SL95513	241400
SL95484	169700	SL95504	213100
SL95494	224800	SL95514	268200
SL95485	188600	SL95505	243700
SL95495	243700	SL95515	298800

Note Add a Suffix "0000" for all the above mentioned cat. nos.

M.R.P. changes for product customization w.r.t. SR18G ACB M.R.P.			M.R.P. (₹) Per Unit
Bus - Coupler (w/o protection)			Reduce 10800
Microprocessor based SR18G+D (LSING + Current Metering)			Add 16500
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)			Add 22000

C-POWER S1 Draw-Out ACBs will have inbuilt - 2NO+2NC Aux contact for MDO & 6NO+6NC Aux contact for EDO breakers, Safety shutter assembly, Racking handle, Door sealing frame, Push-button cover & Rating error preventor.

Electrical version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.

C-POWER S1 Fixed ACBs will have inbuilt - 2NO+2NC Aux contact for MF & 6NO+6NC Aux contact for EF breakers, Door sealing frame & Push-button cover.

Electrical version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.

Note: 1 NO Aux contact in manual version & 2NO+2NC in electrical version breakers will be pre-wired with accessories mounted in breaker.

In electrically operated breaker with DN1 release, either earth fault or undervoltage protection can be used.

### CN-CS-E Range 3 Pole Manual Fixed

Rating	Breaking Capacity Icu=Ics=lcw (1 sec)	Version
400A	50kA	3P MF
630A	50kA	3P MF
800A	50kA	3P MF
1000A	50kA	3P MF
1250A	50kA	3P MF
1600A	50kA	3P MF
2000A	50kA	3P MF

Thermal-Magnetic Release Type DN1	
Cat. No.	M.R.P. (₹) Per Unit
SL957210000	90700
SL957220000	91500
SL957230000	96900
SL957240000	99300
SL957250000	130200
SL957260000	137100
SL932970000	157400

## C-POWER Air Circuit Breakers [8536]



### C-POWER 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity Icu=Ics=lcw (1 sec)	Version	Type	Micropocessor Based SR18G				Thermal-Magnetic DN1			
				3 Pole		4 Pole		3 Pole		4 Pole	
				Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	65kA	MDO	H	SL95311	385100	#	498900	#	381000	#	494800
			EDO	SL95321	440200	#	554000	#	436100	#	549900
1000A	65kA	MDO	H	SL95312	392100	#	530300	#	388000	#	526200
			EDO	SL95322	447200	#	585400	#	443100	#	581300
1250A	65kA	MDO	H	SL95313	428800	#	568700	#	424700	#	564600
			EDO	SL95323	483900	#	623800	#	479800	#	619700
1600A	65kA	MDO	H	SL95314	482500	#	626000	#	478400	#	621900
			EDO	SL95324	537600	#	681100	#	533500	#	677000
2000A	75kA	MDO	H	SL95315	533300	#	640000	#	529200	#	635900
			EDO	SL95325	588400	#	695100	#	584300	#	691000
2500A	75kA	MDO	H	SL95316	555200	#	675800	#	551100	#	671700
			EDO	SL95326	610300	#	730900	#	606200	#	726800
3200A	75kA	MDO	H2	SL94822	585000	SL94826	718000	#	580900	#	713900
			EDO	SL94824	640100	SL94828	773100	#	636000	#	769000
4000A	75kA	MDO	H2	SL94823	664800	SL94827	830800	#	660700	#	826700
			EDO	SL94825	719900	SL94829	885900	#	715800	#	881800
5000A	95kA	MDO/EDO	C		#	*	#	*	#	*	*
6300A	95kA	MDO/EDO	C		#	*	#	*	#	*	*

Note: For higher breaking capacities & 690V AC application please contact the nearest branch office  
Add a Suffix "0000" for all the above mentioned cat. nos.

### C-POWER 3 & 4 Pole Manual Fixed ACBs

Rating	Breaking Capacity Icu=Ics=lcw (1 sec)	Version	Type	Micropocessor Based SR18G				Thermal-Magnetic DN1			
				3 Pole		4 Pole		3 Pole		4 Pole	
				Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	50kA	MF	C	*				*			
	1000A			SL97635	269900	#	350100	SL93005	265800	#	346000
	1250A			SL97636	297400	#	400900	SL93006	293300	#	396800
	1600A										
	2000A										
	2500A										

Note: For higher breaking capacities & 690V AC application please contact the nearest branch office  
Add a Suffix "0000" for all the above mentioned cat. nos.

M.R.P. changes for product customization w.r.t. SR18G M.R.P.				M.R.P. (₹) Per Unit	
Bus-Coupler (w/o protection)				Reduce	
Micropocessor based SR18G+D (LSING + Current Metering)				Add	
Micropocessor based SR18Gi+D (LSING + Current metering + ZSI)				Add	

**C-POWER Draw-Out ACBs** will have inbuilt - 6NO+6NC Aux contact, Safety shutter assembly, Racking handle, Door sealing frame, Push-button cover & Rating Error preventor. Option of horizontal & vertical termination upto 4000A also available. Operation counter for 4000A & above.

EDO version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.

**C-POWER Fixed ACBs** will have inbuilt - 6NO+6NC Aux contact, Door sealing frame & Push-button cover. Operation counter for 4000A & above.

**Note:** 1 NO Aux contact in manual version & 2NO+2NC in electrical version breakers will be pre-wired with accessories mounted in breaker.

In electrically operated breaker with DN1 release, either earth fault or undervoltage protection can be used.

**Note:** Electrical Fixed type breakers are available on request.

# Available on "Made to order" basis. \* Available on request

## Accessories of C-POWER Air Circuit Breakers

### Accessories (Common for C-POWER Family)



**LTPB**



**LIP**



**Shunt Release**



**UV Release**

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Lockable Trip Push Button (LTPB) [8301]</b>		
Type AA	SL93148000A	6220
Type BB	SL93148000B	6220
Type CC	SL93148000C	6220
Type DD	SL93148000D	6220
Lockable Trip Push Button kit (3 I/C & 2 B/C)	SL919360000	31100
<b>Locking of ACB in Isolated position (LIP) [8301]</b>		
Type A	SL93146000A	6220
Type B	SL93146000B	6220
Type C	SL93146000C	6220
Type D	SL93146000D	6220
<b>Locking of ACB in Any position (LAP) [8301]</b>		
Type A	SL93147000A	6220
Type B	SL93147000B	6220
Type C	SL93147000C	6220
Type D	SL93147000D	6220
<b>Racking Interlock [8301]</b>		
Type AA	SL93149000A	8570
Type BB	SL93149000B	8570
Type CC	SL93149000C	8570
Type DD	SL93149000D	8570
<b>Padlock [8301]</b>		
Racking Padlock Assembly	CL900250000	2900
<b>Other Accessories [8538]</b>		
Door Interlock	SL931500000	4560
Mechanical Operation Counter*	XM808370000	4510
Mounting Kit for Front Mounted Counter	SL958820000	1600
Spring Charge Indication Microswitch	SL960000000	3610

\* For mounting the Operation counter, mounting kit "SL958820000" needs to be ordered separately. Operation Counter inbuilt for rating 4000A to 6300A.



**Vertical Terminal Adaptor**

Description & Rating	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>Vertical Terminal Adaptors for Draw out C-POWER ACB [8538]</b>			
400-1250 S1/800-1000 C	SL932810000	7750	1
1600-2000 S1/1250-1600 C/800-1600 H	SL932820000	9410	1
2000 C	SL932840000	13900	1
2000 H/2500 C/H	SL932850000	14500	1
2500 S1	SL932890000	14500	1
3200 S1	SL932860000	17900	1
3200H2/H1, 4000H2/H	SL932880000	43300	1

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Shunt Release (SR) [8538]</b>		
Type EA : 24/48V DC	SL927180400	4150
Type EA : 110V DC	SL927180100	4150
Type EA : 220V DC	SL927180200	4150
Type EA1 : 110V AC	SL927180A00	4150
Type EA1 : 240V AC	SL927180B00	4150
Type EA1 : 415V AC	SL927180D00	4150
<b>Under Voltage Release (UVR) [8538]</b>		
Type MV : 24V DC	ST368770000	7010
Type MV : 240V AC	SL92720B000	7010
Type MV : 415V AC	SL92720D000	7010
<b>Earth Fault Release ( for DN1) [8538]</b>		
Type EF1 (10%, 20% In )	SL913400000	6200
Type EF2 (30%, 40%, 50% In)	SL913410000	6200
<b>Remote Fault Indication [8538]</b>		
AN1 Remote Annunciation Module for SR18G/SR18G+D/SR18Gi+D : 240V AC	SL946540000	15000
<b>Microswitches for Indication [8536]</b>		
Microswitch for Voltmetric Releases (2) each	SL927030000	3850
Microswitch for Common Indication of O/L & S/C (3) each	SL927040000	3850
Microswitch for Separate Indication of O/L & S/C (3) each (for DN1 release)	SL927050000	6430
Service Position Microswitch - Right (2)	SL931420000	2600
Service Position Microswitch - Left (2)	SL931430000	2600
Test or Isolated Position Microswitch - Right (2)	SL931440000	2600
Test or Isolated Position Microswitch - Left (2)	SL931450000	2600

#### Note:

- a. The Numerical in brackets, against various accessories indicate the SICs required for wiring purpose in Draw-Out breakers
- b. Shunt release requires one set of auxiliary contacts
- c. Maximum 24 SICs can be fitted on an ACB. In Electrical ACBs 5 SICs are prewired for control circuit purpose

#### Features

- › Remote Status & Control of ACB
- › Communicates on MODBUS Protocol
- › Inbuilt RS485 Port

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
UN-CO module for Breaker control	CL908520000**	17500	1

\*\*Available till stock last



## Protection Releases



**SR18G**



**SR18G+D**



**SR18Gi+D**



**CT**

Description	Cat. No.	M.R.P. (₹) Per Unit
<b>Protection Releases [8538]</b>		
Microprocessor based type SR71**	<b>On Request</b>	
Microprocessor based type SR18Gi+D	SL948130000	72600
Microprocessor based type SR18G+D	SL948120000	67100
Microprocessor based type SR18G	SL960300000	50600
Thermal-Magnetic Release type DN1	SL931520000	46500
Universal Test Kit	CL904620000	124000

\*\*Available till stock last

Universal Test Kit

Compatible with following Lauritz Knudsen Protection Releases

- › SR protection releases of C-Power ACB family
- › UNRS protection releases of U-Power ACB family
- › MTX and RC releases of D-Sine MCCB family

Retrofit kit solutions are available

For further details please contact the nearest branch office

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
<b>CTs for SR18G / SR18G+D / SR18Gi+D [8504]</b>			
400 S1 Fix & Draw-out	SL015230000	9170	1
630 S1 Fix & Draw-out	ST374950000	9170	1
800 C/H/S1 Fix & Draw-out	SL018570000	9170	1
1000 C/H/S1 Fix & Draw-out	SL018580000	9170	1
1250 C/H/S1 Fix & Draw-out	SL905710000	11100	1
1600 C/H/S1 Fix & Draw-out	SL905720000	11100	1
2000 C/H Fix & Draw-out	SL905650000	12200	1
2000 S1 Draw-out	SL932100000	12200	1
2500 C/H Fix & Draw-out	SL905660000	12200	1
2500 S1 Draw-out	SL905670000	12200	1
3200 H2/H1 Draw-out	SL017400000	14200	1
4000 H2/H Draw-out	SL017390000	16900	1

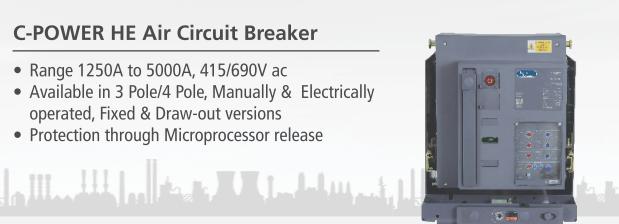
For External Neutral C.T.s please use the above Cat. No.

**Protect your equipment  
in Sulphur-rich environments**



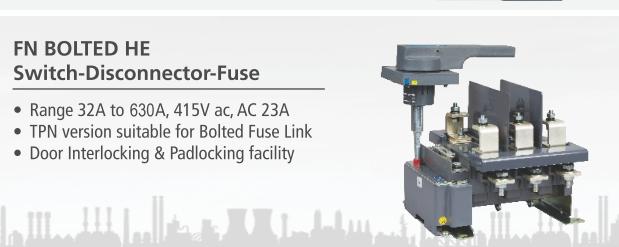
**C-POWER HE Air Circuit Breaker**

- Range 1250A to 5000A, 415/690V ac
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- Protection through Microprocessor release



**FN BOLTED HE  
Switch-Disconnector-Fuse**

- Range 32A to 630A, 415V ac, AC 23A
- TPN version suitable for Bolted Fuse Link
- Door Interlocking & Padlocking facility



Lauritz Knudsen Electrical & Automations HE range of Air Circuit Breakers (ACBs) and Switch-Disconnector-Fuse (S-D-F) are designed to ensure that they operate at peak efficiency for their entire lifespan in harsh, Sulphur-rich Harsh corrosive environments.

©LKN 2012/2015

For more details please  
scan the QR code or click here



**Customer Interaction Center (CIC)**  
Phone no: 022-6932 7800  
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

# S-LINE BUSBAR TRUNKING SYSTEM

A smart, safe, and reliable digital product for commercial spaces.



## KEY FEATURES



Enclosure: GI or Aluminium



UL Certified Class-F  
Insulation with ROHS  
compliance



Current Rating:  
• 250A to 6300A (Aluminium)  
• 400A to 6300A (Copper)



Ingress Protection  
up to IP66



Plug-in boxes with  
Safety interlocks

Now equipped with Temperature monitoring system and

Powered By  
**SMARTCOMM**

# ENGINEERED FOR ENDURANCE

## Built to withstand tough conditions



### LTXL CAPACITOR



Designed to operate at Temperature upto 70°C



3 x In Over Current withstand capacity



Highest 500 x Inrush current withstand capacity.



Special Stainless Steel Earthing pad corrosion proof.



Glazed ceramic bushing provided better protection.



Enhanced Durability



## Power Factor Correction Capacitors [8532]

Parameters	Standard Duty		Heavy Duty		HD Plus Gas Filled	Super Heavy Duty	APP	LTXL Ultra Heavy Duty	
	Cylindrical	Box	Cylindrical	Box	Cylindrical	Cylindrical	Box	Cylindrical	Box
Over current withstand capability	1.5 x In	1.5 x In	1.8 x In	1.8 x In	2.0 x In	2.5 x In	2.5 x In	3 x In	3 x In
Operating losses	0.45 W/kVAr	0.45 W/kVAr	0.5 W/kVAr	0.5 W/kVAr	0.45 W/kVAr	0.45 W/kVAr	0.5 W/kVAr	0.45 W/kVAr	0.5 W/kVAr
Peak Inrush current withstand capability	200 x In	200 x In	250 x In	300 x In	300 x In	350 x In	300 x In	500 x In	500 x In
Number of switching operations per year	5000	5000	7500	8000	10000	15000	10000	18000	20000
Max. Temperature	55°C	55°C	55°C	55°C	55°C	65°C	55°C	65°C	70°C
Operating life	100000 hrs.	100000 hrs.	130000 hrs.	150000 hrs.	180000 hrs.	200000 hrs.	200000 hrs.	300000 hrs.	300000 hrs.

## Standard Duty Capacitors

### Features

- › Finger proof terminal in Cyl capacitor
- › 150% continuous current carrying capacity
- › Self-Healing property
- › Soft resin as coolant
- › Inbuilt Over Pressure Disconnector (OPD)



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical 1 to 6 kVAr - Series : LTCCF 7.5 to 33.1 kVAr - Series : LTCCD	1 to 25	440	266
	1.2 to 27.7	480	266
	1.3 to 33.1	525	266
Box 1 to 6 kVAr - Series : LTBCF 7.5 to 33.1 kVAr - Series : LTBCD	1 to 30	440	310
	11.1 to 27.7	480	310
	13.2 to 33.1	525	310

## HD Plus Gas Filled Capacitor

### Features

- › High inrush current carrying capacity 300 x In
- › Inert gas as coolant (Non-flammable)
- › Finger proof terminal in Cyl capacitor
- › Self-Healing property
- › Inbuilt Over Pressure Disconnector (OPD)
- › Long life



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCN	3 to 5		606
	7.5 to 15	440	495
	20 & 25		460
	7.5 to 15	480	495
	20 to 30		460
	7.5 to 15	525	495
	20 to 33.1		460

## Heavy Duty Capacitors

### Features

- › 180% continuous current carrying capacity
- › Finger proof terminal in Cyl capacitor
- › Self-Healing property
- › Soft resin as coolant
- › Inbuilt over pressure disconnector (OPD)
- › Low losses



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCH	1 to 4		508
	5 to 15	440 V	467
	20 to 30		455
	1.2 to 4.4*		508
	5.5 to 16.6	480 V	467
	22.1 & 27.7		455
	1.3 to 5.3*		508
	6.6 to 16.6	525 V	467
Box Series: LTBCH	20 to 33.1		455
	1 to 4		582
	5 to 15	440 V	503
	20 to 50		493
	5.5 to 15	480 V	503
	20 to 27.7		493
	6.6 to 15	525 V	503
	20 to 33.1		493

\*Now smaller rating also available in Heavy Duty Cylindrical



# Power Quality Solutions

## Super Heavy Duty Capacitors

### Features

- High over current withstand capacity  $2.5 \times In$
- High Inrush current withstand capacity  $350 \times In$
- Finger proof Sigut terminal in Cyl capacitor



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCR	3 to 5	440 V	613
	7.5 to 15		501
	20 & 25		474
	1.2 to 5.5	480 V	613
	11.1 & 15		501
	20 to 27.7		474
	1.3 to 5	525 V	613
	6.6 to 15		501
	20 to 33.3		474

## LTXL - Ultra Heavy Duty Capacitors

### Features

- High over current withstand capacity  $3 \times In$
- High Inrush current withstand capacity  $500 \times In$
- Glazed ceramic bushing (In box type capacitor)
- Lower thermal impedance
- Designed to operate at temperature up to  $70^{\circ}C$
- Corrosion proof stainless steel Earthing pad



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series : LTCCU	5 to 15	440V	1086
	20 & 25		1068
	7.5 to 15		1086
	20	480V	1068
	7.5 to 15		1086
	20		1068
	5 to 15	525V	1239
	20 to 50		1215
	7.5 to 15		1239
Box Series: LTBCU	20 to 30	480V	1215
	7.5 to 15		1239
	20 to 33.1	525V	1215
	5 to 15		1239
	20 to 50		1215

## APP Capacitors

### Features

- High over current withstand capacity  $2.5 \times In$
- High Inrush current withstand capacity  $300 \times In$
- Glazed ceramic bushing
- Tinned Copper studs
- Corrosion proof stainless steel Earthing pad



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Box Series: LTBCP	5 to 15	440 V	849
	20 to 50		821
	5.5 to 13.8	480 V	849
	16.6 to 55.3		821
	6.6 & 13.2	525 V	849
	16.6 to 66.2		821

## Ordering Information for Capacitors

C - Cylindrical, B - Box	Duty: D/F – Standard** H - Heavy N - Gas Filled R - Super Heavy P - APP U - Ultra Heavy
	Sample ratings
	01 - 1 kVAr
kVAr Rating	07 - 7.5 kVAr
	10 - 10 kVAr
	12 - 12.5 kVAr
	<b>Voltages:</b> B - 440V, C - 480V, M - 525V
	** F - 1 to 6 kVAr. D - 7.5 kVAr & above
L T C 3 2	Catalogue Number

Capacitor Series	kVAr ratings		
	440 V	480 V	525 V
LTCCF	1, 2, 3, 4, 5, 6	1.2, 2.2, 3.3, 4.4, 5.5	1.3, 2.6, 3.9, 5.3, 6.6
LTBCF	1, 2, 3, 4, 5, 6	-	-
LTCCD/LTBCD	7.5, 8.33, 10, 12.5, 15, 20, 25, 30*	11.1, 13.8, 16.6, 22.1, 27.7	13.2, 16.6, 20, 26.5, 30, 33.1
LTCCH	1, 2, 3, 4, 5, 7.5, 10, 12.5, 15, 20, 25, 30	1.2, 2.2, 3.3, 4.4, 5.5, 11.1, 13.8, 16.6, 22.1, 27.7	1.3, 2.6, 3.9, 5.3, 6.6, 13.2, 16.6, 20, 26.5, 30, 33.1
LTBCH	1, 2, 3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25, 30, 50	5.5, 11.1, 15, 20, 25, 27.7	6.6, 13.2, 15, 20, 25, 30, 33.1
LTCCN	3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25	7.5, 12.5, 15, 20, 25, 30	7.5, 12.5, 15, 20, 25, 30, 33.1
LTCCR	3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25	1.2, 2.2, 3.3, 4.4, 5.5, 11.1, 15, 20, 25, 27.7	1.3, 2.6, 3.9, 5, 6.6, 13.2, 15, 20, 25, 30, 33.3
LTBCP	5, 7.5, 10, 12.5, 15, 20, 25, 50	5.5, 11.1, 13.8, 16.6, 22.1, 27.7, 55.3	6.6, 13.2, 16.6, 20, 26.5, 30, 33.1, 66.2
LTCCU	5, 7.5, 8.33, 10, 12.5, 15, 20, 25	7.5, 10, 12.5, 15, 20	7.5, 10, 12.5, 15, 20
LTBCU	5, 7.5, 8.33, 10, 12.5, 15, 20, 25, 30, 50	7.5, 10, 12.5, 15, 20, 25, 30	7.5, 12.5, 15, 20, 25, 30, 33.1

\*Only LTBCD is available at 30 kVAr



## Detuned Reactors, 440 V, 50 Hz [8504]

### Features

- › Copper & Aluminium wound reactors
- › H-class insulation
- › Lower operating losses
- › 180% linearity\*
- › Thermal cut off
- › High Quality Factor



kVAr Rating	7% Copper Reactor		7% Aluminium Reactor		14% Copper Reactor		14% Aluminium Reactor	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
1	LTFR0701B2	9736	LTAL0701B2	6932	LTFR1401B2	18926	LTAL1401B2	11440
2	LTFR0702B2	10632	LTAL0702B2	7561	LTFR1402B2	20633	LTAL1402B2	12459
3	LTFR0703B2	12052	LTAL0703B2	8564	LTFR1403B2	23400	LTAL1403B2	14118
4	LTFR0704B2	12810	LTAL0704B2	9105	LTFR1404B2	24878	LTAL1404B2	15018
5	LTFR0705B2	14383	LTAL0705B2	9844	LTFR1405B2	26898	LTAL1405B2	17182
10	LTFR0710B2	19647	LTAL0710B2	13972	LTFR1410B2	38128	LTAL1410B2	24440
12.5	LTFR0712B2	22171	LTAL0712B2	15624	LTFR1412B2	41828	LTAL1412B2	27997
15	LTFR0715B2	25754	LTAL0715B2	18746	LTFR1415B2	46020	LTAL1415B2	33452
20	LTFR0720B2	28523	LTAL0720B2	20865	LTFR1420B2	53302	LTAL1420B2	38025
25	LTFR0725B2	29081	LTAL0725B2	21266	LTFR1425B2	58537	LTAL1425B2	39044
50	LTFR0750B2	48748	LTAL0750B2	33112	LTFR1450B2	94573	LTAL1450B2	55157
75	LTFR0775B2	72458	LTAL0775B2	48771	LTFR1475B2	136811	LTAL1475B2	82007
100	LTFR0700B2	94282	LTAL0700B2	67018	LTFR1400B2	182781	LTAL1400B2	110578

\* Prices of 200% linearity reactors are available on request.

For industries with High Voltage Harmonics, **special solutions** are available on request. Contact your nearest sales office for the customised solutions.

## Selection of capacitors for detuned harmonic filter application

Step Size & 440 V Reactor rating (kVAr)	With 7% detuned reactor			With 14% detuned reactor		
	Capacitor series	480 V Capacitor (kVAr)	525 V Capacitor (kVAr)	Capacitor series	525 V Capacitor (kVAr)	
1	LTCCF, LTCCH, LTCCR	1.2	1.3	LTCCF, LTCCH, LTCCR	1.3	
2	LTCCF, LTCCH, LTCCR	2.2	2.6	LTCCF, LTCCH, LTCCR	2.6	
3	LTCCF, LTCCH, LTCCR	3.3	3.9	LTCCF, LTCCH, LTCCR	3.9	
4	LTCCF, LTCCH	4.4	5.3	LTCCF, LTCCH	5.3	
	LTCCR		5	LTCCR	5	
5	LTCCF, LTCCH, LTCCR, LTBCR, LTBCP	5.5	6.6	LTCCF, LTCCH, LTCCR, LTBCR, LTBCP	6.6	
	LTCCN, LTCCU, LTBCU	7.5	7.5	LTCCN, LTCCU, LTBCU	7.5	
10	LTCCD, LTCCH, LTCCR, LTBCD, LTBCR, LTBCH, LTBCP	11.1	13.2	LTCCD, LTCCH, LTCCR, LTBCD, LTBCR, LTBCH, LTBCP	13.2	
	LTCCN, LTCCU, LTBCU	12.5	12.5	LTCCN, LTCCU, LTBCU	12.5	
12.5	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	15	15	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	15	
	LTCCD, LTCCH, LTBCD, LTBCP	13.8	16.6	LTCCD, LTCCH, LTBCD, LTBCP	16.6	
15	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	20	20	LTCCD, LTCCN, LTCCH, LTCCR, LTCCU, LTBCD, LTBCH, LTBCP, LTBCU	20	
	LTCCD, LTCCH, LTBCD, LTBCP	16.6		LTBCD, LTBCH, LTBCP, LTBCU		
20	LTCCN, LTCCR, LTBCH, LTBCU	25	25	LTCCN, LTCCR, LTBCH, LTBCU	25	
	LTCCD, LTCCH, LTBCD, LTBCP	22.1	26.5	LTCCD, LTCCH, LTBCD, LTBCP	26.5	
25	LTCCU	7.5 + 15	2 x 12.5	LTCCU	2 x 12.5	
	LTCCD, LTCCH, LTCCR, LTBCD, LTBCR, LTBCP	27.7	33.1	LTCCD, LTCCN, LTCCH, LTCCR, LTBCD, LTBCR, LTBCP, LTBCU	30	
50	LTBCU, LTCCN	30		LTBCD, LTBCH, LTBCP, LTBCU		
	LTCCU	12.5 + 15	15 + 20	LTCCU	(10+20)	
75	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH	2 x 27.7	2 x 33.1	LTCCD, LTCCN, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP, LTBCU	2 x 30	
	LTBCU, LTCCN	2 x 30		LTBCD, LTBCH, LTBCP, LTBCU		
100	LTCCU	2 x (12.5 + 15)	2 x (15 + 20)	LTCCU	3 x 20	
	LTBCP	55.3	66.2	LTCCU		
75	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH	3 x 27.7	3 x 33.1	LTCCD, LTCCN, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP, LTBCU	3 x 30	
	LTBCU, LTCCN	3 x 30		LTBCD, LTBCH, LTBCP, LTBCU		
100	LTCCU	3 x (12.5 + 15)	3 x (15 + 20)	LTCCU	(4 x 20) + 10	
	LTBCP	27.7 + 55.3	33.1 + 66.2	LTCCD, LTCCN, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP, LTBCU	4 x 30	
100	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	4 x 27.7	4 x 33.1	LTCCU	6 x 20	
	LTBCU, LTCCN	4 x 30		LTBCD, LTBCH, LTBCP, LTBCU		
100	LTCCU	4 x (12.5 + 15)	4 x (15 + 20)	LTCCU		
	LTBCP	2 x 55.3	2 x 66.2	LTCCU		

## Power Quality Solutions

### Capacitor Duty Contactors - Type MO C [8536]

#### Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Delatching type early make contacts
- Separate termination for damping resistors
- Encapsulated damping resistor assembly
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- RoHS** compliant



Size	kVar Rating @ 440V, 3Ph, 50Hz	Type	Built-in Auxiliary Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	3	MO C3	1NO	CS96146	2350	1
	5	MO C5	1NO	CS96127	2460	1
	8.5	MO C8.5	1NO	CS96320	2850	1
	10	MO C10	1NO	CS96156	3040	1
	12.5	MO C12.5	1NO	CS96321	3180	1
	15	MO C15	1NO	CS90019	4140	1
	20	MO C20	1NO	CS90021	4850	1
	25	MO C25▲	1NO	CS96322	5440	1
	30	MO C30\$	1NO	CS96148	8470	1
Fr 2	40	MO C40	1NO	CS96147	14290	1
	50	MO C50	1NO	CS96324	15060	1
	60	MO C60\$	1NO	CS96149	17240	1
Fr 3	75	MO C75	1NO	CS96150	19620	1
	85	MO C85	1NO	CS96157	20060	1
	100	MO C100\$	1NO	CS96158	21190	1

#### Note:

- For ordering add-on aux. contact block, please refer page No. 8
- For ordering suffix, please refer page No.10
- For ordering spare coils, please refer page No. 11
- Standard coil voltage : 240V, 50/60 Hz
- For ordering MO C surge suppressor, please refer page No. 9

- ▲ If using 16 sq mm cable use of spreader link kit is mandatory  
 ▲ For ordering spreader link kit, Please refer page No.9  
 \$ Spreader link along with phase barrier included in packing

### Thyristor Switching Module, 440V 50Hz [8538] New

#### Features

- High Peak Inverse Voltage (PIV) - 2.2 kV
- Inbuilt control supply voltage
- Auto thermal cut off
- LEDs for various status/fault indications
- Ambient Temperature -10° C to 55° C
- No moving parts
- On-site self test logic
- Low operating losses
- 2 Nos Aux Contact outputs for fault and status



kVar Rating	Cat. No.	M.R.P. (₹) Per Unit
10	CS920490000	25440
25	CS920500000	36290
50	CS920510000	41565

Note: Above prices include Quick Discharge Resistors (QDR)

### \*\*Thyristor Switching Module, 440V 50Hz [8538]

#### Features

- High Peak Inverse Voltage (PIV) - 2.2 kV
- Lower operating losses
- Auto thermal cut off
- No moving parts
- LEDs for various status/fault indications



kVar Rating	Cat. No.	M.R.P. (₹) Per Unit
10	LTTSM10B2	25440
25	LTTSM25B2	36290
50	LTTSM50B2	41565

Note: Above prices include Quick Discharge Resistors (QDR)

\*\* Available till stock last



## Like Clear Water and Air, Power Quality Matters

Experience unmatched power reliability, energy efficiency & equipment performance with our Power Quality Solutions



Widest range of power quality products



Customised solutions for every customer



Six decades of domain expertise

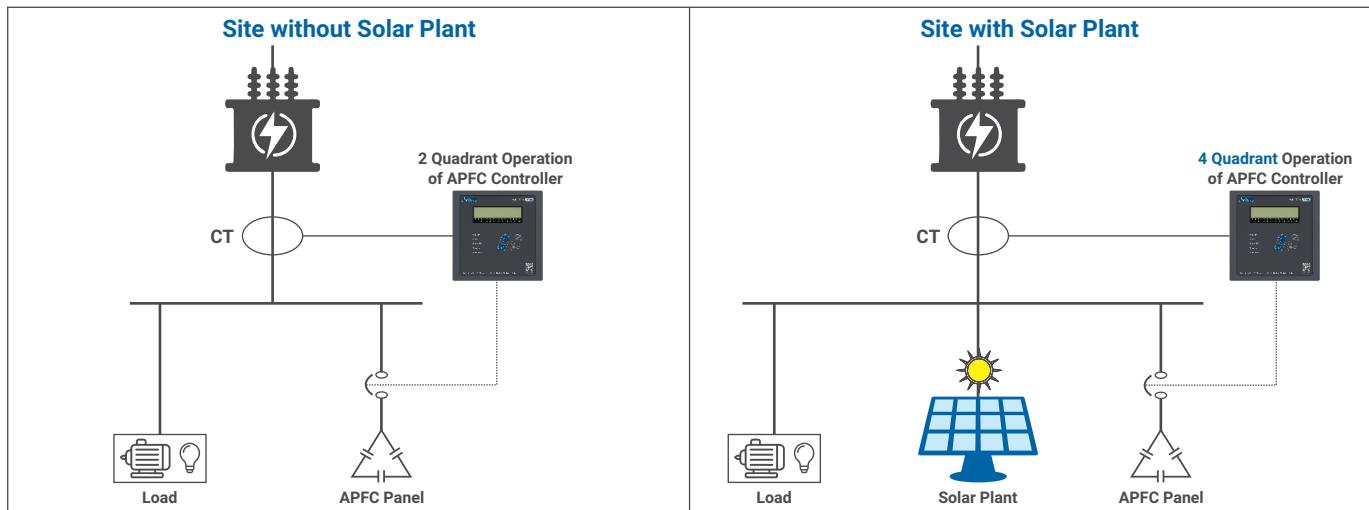


Largest service provider network



## APFC Controller [8538]

etaSMART and etaULTRA Controllers are compatible for Sites with or without a Solar plant.



Enable 4 Quadrant setting in etaSMART and etaULTRA for site with Solar Plant.

### etaULTRA - APFC Controller - 3 CT inputs

#### Features

- › 3 Phase Current and Voltage measurement
- › PF display - 3 Digit after decimal
- › Individual harmonics measurement up to 31st order
- › Dual PF setting for Mains - DG application
- › Communication through Inbuilt MODBUS RS-485 Protocol
- › Suitable for LT as well as HT side sensing

Cascading (Master - Slave configuration)  
for APFC panel with more than 16 steps



4 Quadrant Operation suitable for  
Solar Powered installations

Model Name	No. of steps (For Contactor switching)	No. of steps (For Thyristor switching)	Voltage Input	Cat No.	Size	M.R.P. (₹) Per Unit
etaULTRA 8R	8	0	110 / 415 V	CS910500000	144 x 144	21500
etaULTRA 16R	16	0		CS910510000		30150
etaULTRA 14T+2R	2	14		CS910530000		30150
etaULTRA 8T+8R	8	8		CS910540000		24300

Last Two Contacts can be programmed for Capacitor Switching / Alarm Function / Fan Control

### etaSMART - APFC Controller - 1 CT input

#### Features

- › Simple and Smart Controller
- › Auto programming function available
- › CT secondary - 1 / 5 Amp site selectable
- › Measurement of Total harmonics distortion of current and voltage up to 13th order harmonics



4 Quadrant Operation suitable for  
Solar Powered installations

### etaSMART T - APFC Controller for Thyristor Switching with 1 CT input

No. of O/P steps (for Thyristor switching)	Size	Cat. No.	Single CT input	Voltage Input	M.R.P. (₹) Per Unit
6	96x96	CS916130000	1 / 5 Amp	415 V	15650
8	144x144	CS916140000			18150
12	144x144	CS916150000			22700
15	144x144	CS916160000			26450

One separate relay contact is available for Alarm

### etaSMART R - APFC controller for Contactor switching with 1 CT input

No. of steps (For Contactor Switching)	Size	Cat. No.	Single CT input	Voltage Input	M.R.P. (₹) Per Unit
4	96 x 96	CS908840000	1 / 5 Amp	415 V	8350
6	96 x 96	CS908850000			10800
8	96 x 96	CS909020000			12800
12	144 x 144	CS909030000			20400
14	144 x 144	CS909040000			23650
16	144 x 144	CS909050000			25800

Last Two Contacts can be Programmed for Capacitor Switching /  
Alarm Function / Fan Control

# Power Factor Perfected, Harmonics Mitigated



## ASVG & AHF

Experience the next generation of power quality solutions. Our Advanced Static VAR Generator (ASVG) & Active Harmonic Filter (AHF) Modules dynamically corrects power factor for varying loads and mitigates harmonic in the system, resulting in improved system performance and a longer equipment lifespan. ASVG & AHF Modules compatibility with Hybrid controller enables true hybrid solutions, offering greater control and flexibility.



Ultra-High Speed  
compensation using IGBT



Dynamic Stepless Power  
Factor Correction



Harmonic  
Mitigation

### Advanced Static VAR Generator (ASVG) [8504] New

#### ASVG Features

- › Dynamic Stepless PF correction, Load balancing & Harmonic Mitigation
- › Suitable for DPF & TPF improvement
- › Harmonic Mitigation up to 15th Order
- › Fast response time of 50  $\mu$ sec
- › Scalable architecture for future expansion
- › Lower thermal losses
- › Communicable –Inbuilt MODBUS RS485 Protocol
- › Wall mount/ Rack Mount Modules
- › True Hybrid Solution Compatibility



kVAr Rating	3P3W ASVG (415 V,-25%+15%)		3P4W ASVG (415 V,-25%+10%)		
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
30	ASVG0030H3WD2*	On Request	ASVG0030H4WD2*	On Request	
50	ASVG0050H3WD2*		ASVG0050H4WD2*		
100	ASVG0100H3WD2*		ASVG0100H4WD2*		
30	ASVG0030N3RD2		ASVG0030N4RD2		
50	ASVG0050N3RD2		ASVG0050N4RD2		
100	ASVG0100N3RD2		ASVG0100N4RD2		
<b>Hybrid Controller / HMI</b>					
18 Stage Relay O/P		ASVGHC18R00T		On Request	
18 Stage Thyristor O/P		ASVGHC00R18T			
9 Stage Relay 9 Stage Thyristor O/P		ASVGHC09R09T			
7 Inch HMI		ASVGHMI007			

\* ASVG module with inbuilt HMI



## Active Harmonic Filter (AHF) [8543]



### ACTIVE HARMONIC FILTER - MODULE New

#### Features

- › Reduces THD within IEEE - 519 limits
- › Harmonic Mitigation, Dynamic Stepless PF correction & Load balancing
- › Advanced 3 Level Inverter topology
- › Harmonic Mitigation up to 51st Order
- › Fast response time of 50  $\mu$ sec
- › Lower thermal losses
- › Scalable architecture for future expansion
- › Communicable –Inbuilt MODBUS RS485 Protocol
- › Wall mount/ Rack Mount Modules
- › True Hybrid Solution Compatibility

Ampere Rating	3P3W AHF (415 V,-25%+15%)		3P4W AHF (415 V,-25%+10%)		
	Cat. No.*	M.R.P. () Per Unit	Cat. No.*	M.R.P. () Per Unit	
30	AHF0030H3WD2*	On Request	AHF0030H4WD2*	On Request	
50	AHF0050H3WD2*		AHF0050H4WD2*		
100	AHF0100H3WD2*		AHF0100H4WD2*		
30	AHF0030N3WD2		AHF0030N4WD2		
50	AHF0050N3RD2		AHF0050N4RD2		
100	AHF0100N3RD2		AHF0100N4RD2		
<b>Hybrid Controller / HMI</b>					
18 Stage Relay O/P		AHFHC18R00T		On Request	
18 Stage Thyristor O/P		AHFHC00R18T			
9 Stage Relay 9 Stage Thyristor O/P		AHFHC09R09T			
7 Inch HMI		AHFHMI007			

\* AHF module with inbuilt HMI

### ACTIVE HARMONIC FILTER

#### Features

- › Reduces THD within IEEE - 519 limits
- › Harmonic mitigation up to 50th Order
- › Harmonic Mitigation, Dynamic Stepless PF correction & Load balancing
- › With complete panel enclosure
- › Up to 1000 Amp in a single enclosure
- › Customizable to withstand in extreme environment
- › Communicable – Inbuilt MODBUS RS485 Protocol
- › Modular Design allowing for future expansion
- › Ease of Monitoring using Touch Screen HMI
- › Fully Customized as per site condition\*\*

Contact your nearest sales office for customized solution.

Ampere Rating	3 Phase 3 wire AHF Without Neutral Compensation		3 Phase 4 wire AHF With Neutral Compensation	
	Cat. No.*	M.R.P. () Per Unit	Cat. No.*	M.R.P. () Per Unit
30	AHF030431D2	On Request	AHF030441D2	On Request
60	AHF060431D2		AHF060441D2	
100	AHF100431D2		AHF100441D2	
125	AHF125433D2		AHF125443D2	
150	AHF150433D2		AHF150443D2	
200	AHF200433D2		AHF200443D2	
250	AHF250433D2		AHF250443D2	
300	AHF300433D2		AHF300443D2	
400	AHF400433D2		AHF400443D2	
500	AHF500433D2		-	
600	AHF600433D2		-	
750	AHF750433D2		-	
1000	AHF000433D2		-	

\*Standard CAT No. Configuration      Cable Entry – Top/Cable Alley

Customisable options available  
IP Class – IP 40/IP 42/IP 54  
Conformal Coating - (3C3)

# Type Tested APFC Panels - Safe, Reliable and Smart solution to maintain Power Factor

## Type tested and certified design

- Engineered to the highest standards - Type tested as per IEC 61439-1&2, IEC61921 & IS13947
- Ingress Protection up to IP42 as per IEC 60529, IS2147 to protect equipment under harsh environments

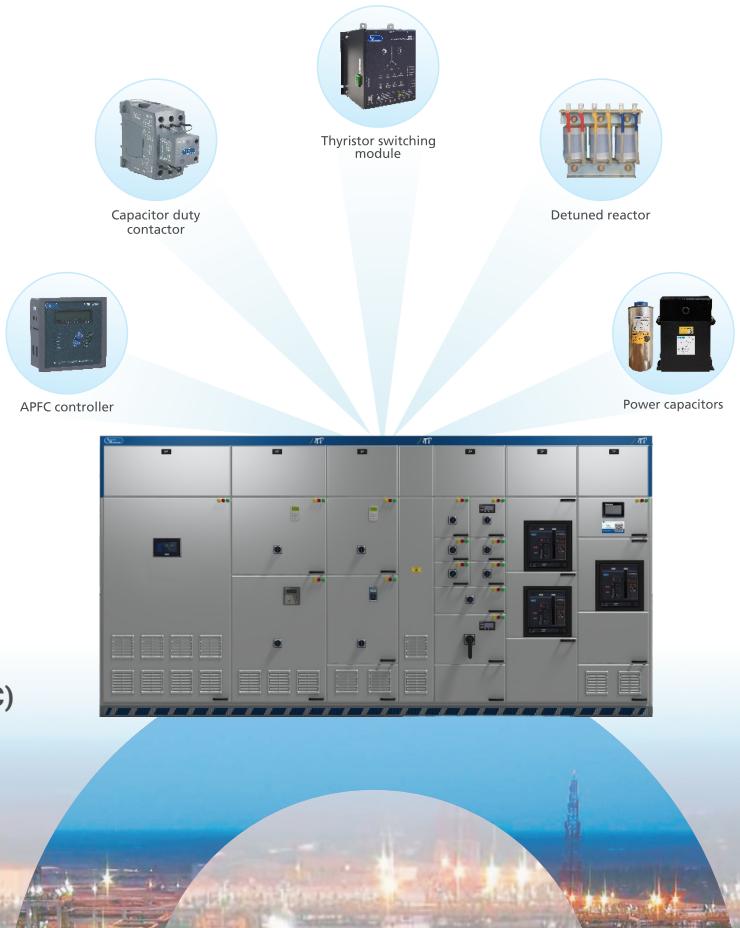
## Reliable

- Worry free PF management with 4 quadrant PF controller
- Certified for better thermal management as per IEC 61921
- Design verified assemblies of both constructional & permanence requirements
- Separate section for detuned reactors, capacitors & switchgear ensures longer life of components & less worry on maintenance

## Safety

- Form 3B separation (compartmentalized design for switchgear)
- Bus bars with more clearance than prescribed in standards
- A minimum of IP2X degree of protection even when the doors / covers in open condition
- Earthing of each and every door and structural members
- Zero stray voltage on doors & covers ensures both operator & equipment safety

**Hybrid Harmonic Filters (ASVG + APFC) & (AHF + APFC) can also be offered. Contact our nearest sales office for such customized solution**



## Suggested Step Ratings for APFC Panels

Panel Rating (kVAr)	Physical Step Size (kVAr)	No. of Physical Steps	Electrical Steps (All Possible Combination of Physical Steps)	No. of Electrical Steps
10	4 + 3 + 2 + 1	4	1,2,3,4...8,9,10	10
15	5 + 4 + 3 + 2 + 1	5	1,2,3,4...13,14,15	15
20	10 + 5 + 2x2 + 1	5	1,2,3,4...18,19,20	20
25	15 + 5 + 2x2 + 1	5	1,2,3,4...23,24,25	20
30	15 + 10 + 2x2 + 1	5	1,2,3,4...28,29,30	22
35	20 + 10 + 2x2 + 1	5	1,2,3,4...33,34,35	23
40	20 + 10 + 5 + 3 + 2	5	2,3,5,7...35,37,38,40	24
45	25 + 10 + 5 + 3 + 2	5	2,3,5,7...40,42,43,45	24
50	25 + 15 + 5 + 3 + 2	5	2,3,5,10...45,47,48,50	24
55	25 + 15 + 10 + 3 + 2	5	2,3,5,10...50,52,53,55	25
60	25 + 15 + 10 + 5 + 3 + 2	6	2,3,5,7...55,57,58,60	36
65	25 + 2x15 + 5 + 3 + 2	6	2,3,5,7...60,62,63,65	35
70	25 + 20 + 15 + 5 + 3 + 2	6	2,3,5,7...65,67,68,70	36
75	2x25 + 15 + 5 + 3 + 2	6	2,3,5,7...70,72,73,75	39
80	2x25 + 15 + 10 + 3 + 2	6	2,3,5,10...75,77,78,80	36
85	50 + 20 + 5 + 4 + 2x3	6	2,3,5,6...80,81,82,85	44
90	50 + 25 + 5 + 4 + 2x3	6	3,4,5,6...85,86,87,90	47
95	50 + 25 + 10 + 4 + 2x3	6	3,4,6,7...89,91,92,95	43
100	50 + 25 + 15 + 4 + 2x3	6	3,4,6,7...94,96,97,100	44
105	50 + 25 + 15 + 5 + 4 + 2x3	7	3,4,5,6...100,101,102,105	85
110	50 + 25 + 15 + 10 + 4 + 2x3	7	3,4,5,6...104,106,107,110	65
115	50 + 25 + 2x15 + 4 + 2x3	7	3,4,6,7...109,111,112,115	65

**Note:** Above mentioned steps are typical recommendations, suitable for most of the industries. For accurate compensation, step size selection may have to be decided after studying load profile of that industry.

# Empower Your Grid with **PRECISION & INTELLIGENCE**



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Power Quality Monitors

**WC8000**  
Power Quality Analyzers

## WC8000 & WC7000 Power Quality Meter Range Engineered for excellence, trusted for compliance.



**Class 0.2s Accuracy**  
As per IEC 62053-22



**Smart Communication**  
RS485, Ethernet,  
Modbus RTU, MQTT



**Reporting**  
IEC61000-4-30, IEEE519,  
ITIC & CBEMA, EN50160



**Advanced Harmonics Analysis**  
Up to 127th order (WC8000)



**Web Server Enabled**  
Remote access  
& configuration



**Robust Design**  
IP51 protection, double insulation,  
wide voltage range



**Real-Time Monitoring**  
High sampling rates  
(1024/cycle for WC8000)



**Energy Efficiency Insights**  
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# numrAL

Current and Voltage-based Protection ▾



▲ Single Element and Multifunction Relays

## Draw-out Numerical Protection Relays with Intelligent Algorithm

- Comprehensive Protection along with Control and Monitoring
- Enhanced interface with Display and Modbus Communication

Powered By  
**SMARTCOMM**

## APPLICATIONS



### DISTRIBUTED ENERGY SYSTEM:

Renewable and Grid Stability



### EQUIPMENT PROTECTION:

Generator, Transformer and Motor



### POWER GENERATION AND DISTRIBUTION SUBSTATIONS:

LV and MV applications



### REAL TIME MONITORING AND PREDICTIVE ANALYTICS

with SmartComm



## Protection Relays [8536]

Correlation between ANSI/IEEE device function number and relays																
ANSI Code	Function Name	Protection Relays														
		Single Function						Voltage and Frequency			Feeder		Motor Protection			
		REF11	NDR11	OCR11	RPR11	TCS11	PTF11	VPR11	VPR21	VPR22	FDR21	FDR22	eMPR 300I	iMMR	MM10	MPR21
27	AC under-voltage relay							✓	✓	✓				✓		
32	Power directional relay				✓											
37	Under current or under power relay												✓	✓	✓	✓
46	Reverse phase or phase balance current relay											✓	✓	✓	✓	✓
46BC	Broken conductor Protection											✓				
47	Phase-sequence or single-phasing voltage relay								✓	✓				✓		
48	Excessive Start Time Monitoring												✓	✓	✓	
49	Machine or transformer thermal Overload relay											✓	✓	✓	✓	✓
50	Instantaneous overcurrent relay										✓	✓	✓	✓	✓	✓
50N	Instantaneous Earth Fault relay			✓							✓	✓	✓	✓	✓	✓
50BF	Breaker - failure										✓	✓				✓
51	AC time over current relay										✓	✓	✓	✓	✓	✓
51N-(51G)	Ground fault time over current relay / Standby Earth Fault Relay			✓							✓	✓	✓	✓	✓	✓
51LR	Locked rotor												✓	✓	✓	✓
59	AC over-voltage relay							✓	✓	✓				✓		
59N	Neutral Displacement Relay		✓						✓	✓						
59D	Positive Sequence Over-voltage protection								✓	✓						
64REF	Restricted Earth Fault Relay	✓														
64	Machine Ground Fault		✓										✓	✓	✓	✓
66	Max. no. of starts												✓			✓
81	Frequency relay								✓	✓				✓		
87N-(87G)	Ground fault differential protection relay*	✓														
74TCS	Trip Circuit supervision Protection					✓					✓	✓				✓
78	Vector surge protection relay									✓						
df/dt	Rate of change of frequency										✓					
SOTF	Switch On to Fault Protection											✓				
PTFF	PT Fuse failure						✓									

\* REF11 is meant for Generator Differential Protection

### 3 Phase non-directional Over Current + Earth Fault Relay

- > FDR21 – 50, 51, 50N, 51N.
- > Microcontroller-based design
- > Draw-out enclosure.
- > CT rating<sup>#</sup> - 1A/ 5A (site selectable)
- > Display of 250 event and 30 Trip records
- > 128\*64 graphical display



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL FDR21	20 - 60V DC	Non-Communicable	NRFDR2A26NX	25300
	85 - 265V AC, 87 - 265V DC	Non-Communicable	NRFDR2B26NX	25300

# - Protection Class CT

### 3 Phase non-directional Over Current + Earth Fault Relay

- > FDR22 - 46BC, 49, 50, 51, 50N, 51N, 50BF, 74TCS, SOTF
- > Microcontroller-based design
- > Draw-out enclosure.
- > CT rating<sup>#</sup> - 1A/ 5A (site selectable)
- > Display of 250 event and 30 Trip records
- > 128\*64 graphical display
- > Modbus RS-485 Communication
- > Front Micro USB port for numrAL Suite



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL FDR22	20 - 60V DC	Modbus RS 485	NRFDR2A27RA	32000
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	NRFDR2B27RA	32000

# - Protection Class CT

### Motor Protection Relay

- > MPR21 – 37, 46, 48, 49, 50BF, 50, 51, 50N, 51N, 51LR, 64, 66, 74TCS.
- > Microcontroller-based design
- > Draw-out enclosure.
- > CT rating<sup>#</sup> - 1A/ 5A (site selectable)
- > Display of 250 event and 30 Trip records
- > 128\*64 graphical display
- > Modbus RS-485 Communication
- > Front Micro USB port for numrAL Suite



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL MPR21	20 - 60V DC	Modbus RS 485	*Available On Request	
	85 - 265V AC, 87 - 265V DC	Modbus RS 485		

# - Protection Class CT

\* Please contact our nearest branch for details

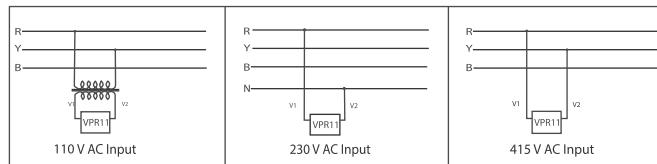
### Single Pole Over Voltage + Under Voltage Relay

VPR11 - Single Pole Under Voltage and Over Voltage Relay (27, 59)

- > Microcontroller-based design
- > Draw-out Enclosure
- > Single Phase OV + UV Protection
- > System Voltage – 110/ 230/ 415 VAC (site programmable)
- > Inverse and definite time delay
- > Display of Actual value and 5 Trip records



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL VPR11	20 - 60V DC	Non-communicable	NRVPR1A11NX	16000
	85 - 265V AC, 87 - 265V DC	Non-communicable	NRVPR1B11NX	16000
numrAL VPR11	20 - 60V DC	Modbus RS 485	NRVPR1A11RA	20000
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	NRVPR1B11RA	20000

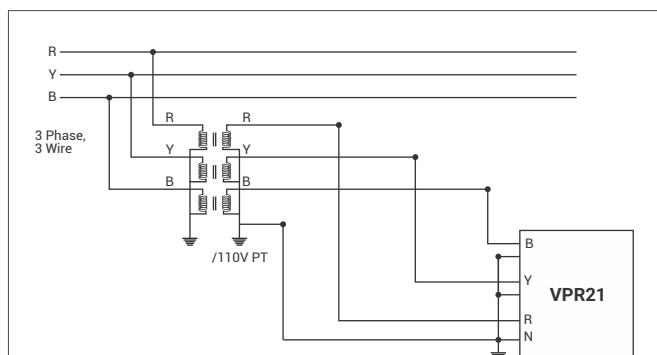
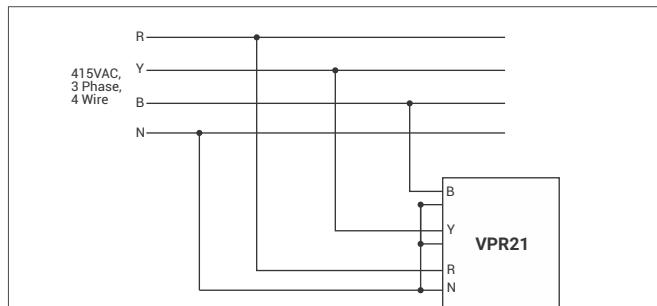


### 3 Phase Voltage + Frequency Relay

- > VPR21 – 27, 47, 59, 59N, 810/U
- > Microcontroller-based design
- > Draw-out enclosure.
- > System Voltage – 110/ 230/ 415 VAC (site programmable)
- > Display of 250 event and 30 Trip records
- > 128\*64 graphical display



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL VPR21	20 - 60V DC	Non-Communicable	NRVPR2A2ANX	25300
	85 - 265V AC, 87 - 265V DC	Non-Communicable	NRVPR2B2ANX	25300



## Restricted Earth Fault Relay

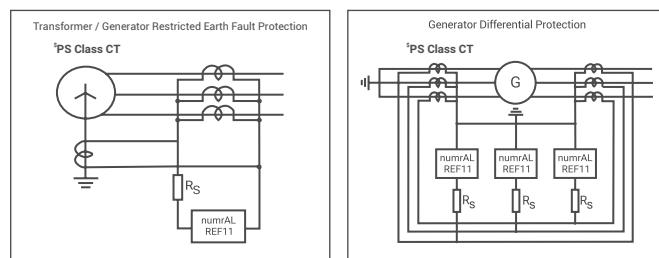
### REF11 - Restricted Earth Fault Relay (87N/64REF)

- Microcontroller-based design
- Draw-out Enclosure
- CT rating<sup>§</sup> - 1A/ 5A (site selectable)
- Single Phase high impedance Earth Fault
- Instantaneous and definite time delay  
[50 msec to 1 sec (programmable)]
- Built in third harmonic filter
- Display of Actual value and 5 Trip records



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL REF11	20 - 60V DC	Non-communicable	NRREF1A10NX	16000
	85 - 265V AC, 87 - 265V DC	Non-communicable	NRREF1B10NX	16000
	20 - 60V DC	Modbus RS 485	NRREF1A10RA	20000
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	NRREF1B10RA	20000

§ - PS Class CT



## Single Pole Over Current OR Earth Fault Relay

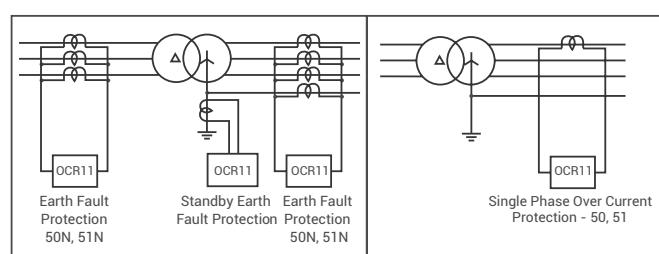
### OCR11 – Single pole Over Current or Earth Fault Relay (50, 51 OR 50N, 51N)

- Microcontroller-based design
- Draw-out Enclosure
- Single Phase OC/ EF Protection
- CT rating<sup>#</sup> - 1A/ 5A (site selectable)
- Inverse and definite time delay
- Display of Actual Current value and 5 Trip records



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL OCR11	20 - 60V DC	Non-communicable	NROCR1A10NX	16000
	85 - 265V AC, 87 - 265V DC	Non-communicable	NROCR1B10NX	16000
	20 - 60V DC	Modbus RS 485	NROCR1A10RA	20000
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	NROCR1B10RA	20000

# - Protection Class CT



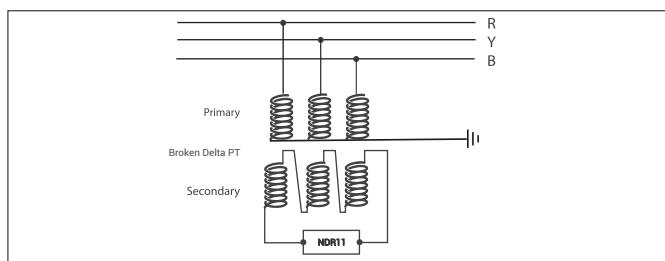
## Neutral Displacement Relay

### NDR11 - Neutral Displacement Relay (59N)

- Microcontroller-based design
- Draw-out Enclosure
- Single Phase OV Protection
- Definite & Normal inverse time delay
- Display of Actual value and 5 Trip records



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL NDR11	20 - 60V DC	Non-communicable	NRNDR1A11NX	16000
	85 - 265V AC, 87 - 265V DC	Non-communicable	NRNDR1B11NX	16000
	20 - 60V DC	Modbus RS 485	NRNDR1A11RA	20000
	85 - 265V AC, 87 - 265V DC	Modbus RS 485	NRNDR1B11RA	20000



## Trip Circuit Supervision Relay

### TCS11 – Trip Circuit Supervision Relay (74)

- Microcontroller-based design
- Draw-out Enclosure
- Monitors Trip Coil in Breaker ON & OFF condition
- Site selectable Trip Coil Voltage



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL TCS11	20 - 60V DC	Non-Communicable		
	85 - 265V AC, 87 - 265V DC	Non-Communicable		*Available On Request

\* Please contact our nearest branch for details

## PT Fuse Failure Relay

### PTF11 – PT Fuse Failure Relay (PTFF/97)

- Microcontroller-based design
- Draw-out Enclosure
- Monitors the healthiness of PT Fuse.
- 3 Separate sensing elements.



Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL PTF11	20 - 60V DC	Non-Communicable		
	85 - 265V AC, 87 - 265V DC	Non-Communicable		*Available On Request

\* Please contact our nearest branch for details

## Protection Relays [8536]

### \*Legacy Range:

Model	Aux. Supply (V)	Details	Cat. No.	M.R.P. (₹) Per Unit
MC31ANX	24-240V AC/ DC	1A/ 5 A CT secondary	MC31ANX2200	21000
			MC31ANX4000	21000
MC61ANX	24-240V AC/ DC	1A/ 5 A CT secondary	MC61ANX2200	23000
			MC61ANX4000	23000
MC61CNX	24-240V AC/ DC	1A/ 5 A CT secondary	MC61CNX4000	25500
MPR11	20 - 110V AC/DC	1A CT secondary	MRP11A10X00	24500
	88 - 264V AC/DC	5A CT secondary	MRP11A50X00	24500
	20 - 110V AC/DC	1A CT secondary	MRP11B10X00	24500
	88 - 264V AC/DC	5A CT secondary	MRP11B50X00	24500
TCS01NX	20 - 110V AC/DC		TCS01NXA000	8500
	88 - 264V AC/DC		TCS01NXB000	8500

\* Available till stock lasts

### Insulation Monitoring Relay

Application: Monitoring of insulation resistance between Live conductors and Earth (Ground) in case of Unearthed (IT) electrical systems. Detection of insulation faults at earlier stage prevents electrical hazards such as electric shock, fire and equipment damage.

#### Features:

- Threshold resistance setting from 1K to 100K ohm
- Suitable for 1Phase and 3 Phase (Both 3W and 4W)
- Test/Reset function with remote and manual facility
- Indication of Power ON, Relay output and Fault.
- Both fail safe and non-failsafe relay option available

Description	Cat Code	MRP
System voltage up to 520V. Adjustable from 1-100K Ω with 2C/O	IMR520	8085

#### Application Segments:

- Railways
- Hospitals and Pharma
- Data Centre
- Mining



### Single Element Lockout Relay - LocR

#### Features

- Lockout Relays [Master Trip Relay] - LocR
- Designed to operate the circuit breaker trip coils at high speed
- Available with Hand reset contact (HRC) and hand reset Flag (HRF)

Description	Output contacts	Reset Contacts	Reset Flag	Coil Voltage	Cat. No.	M.R.P. (₹) Per Unit
Single element Lockout relay	3NO + 2NC	Hand	Hand	24VDC	L1H32DC024X	6000
				110VDC	L1H32DC110X	6000
				220VDC	L1H32DC220X	6000
				230VAC	L1H32AC230X	6000



### Three Element Auxiliary Relay - AuxR

ANSI Code - 86

#### Features

- AuxR relay provides additional contacts for interlocking, control and signal applications
- Available with hand reset or self-reset contacts and hand reset Flag

Description	Output Contacts	Reset Contacts	Reset Flag	Coil Voltage	Cat. No.	M.R.P. (₹) Per Unit
Three element Auxiliary relay	4 N/O	Hand	Hand	24VDC	A3H40DC024X	12000
				110VDC	A3H40DC110X	12000
				220VDC	A3H40DC220X	12000
				230VAC	A3H40AC230X	12000
Three element Auxiliary relay	2 N/O + 2 N/C	Auto	Hand	24VDC	A3A22DC024X	12000
				110VDC	A3A22DC110X	12000
				220VDC	A3A22DC220X	12000
				230VAC	A3A22AC230X	12000



## Metering Devices [9028]

### Single Phase kWh meter with LCD display

Model EM101+ Class 1 Base mounting



Description	Cat. No.	M.R.P. (₹) Per Unit
1P LCD Meter 5-30A	WM101BC5DL0	1950
1P LCD Meter 5-30A with BOX	WM101BC5DL0BOX	2600
1P LCD Meter 5-30A with OPTICAL PORT	WM101BC5DDH	2680
1P LCD Meter 5-30A with Optical port + BOX	WM101BC5DDHBOX	3330
1P LCD Meter 10-60A	WM101BC7DL0	2300
1P LCD Meter 10-60A with BOX	WM101BC7DL0BOX	2900
1P LCD Meter 10-60A with Optical Port	WM101BC7DDH	2940
1P LCD Meter 10-60A with Optical Port + BOX	WM101BC7DDHBOX	3380
1P LCD Meter 5-30 with Optical Port + RS232	WM101BC5DLMSC	3000

### Trivector Meter Class 1 whole current meter



Model ER300P Class 1 (Base Mounting)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 240 V 10 - 60A BM	WR300BC7300	9180
3Ph, 4W TVM 240 V 10 - 60A BM RS 485Modbus*	WR300BC73RS485	13100
3Ph, 4W TVM 240 V 10 - 60A BM with Hinge type Box	WR300BC73BOXH	11370

\*- Available on request only & minimum order quantity is 100 Nos

### Trivector Meter Class 0.2s

Model ER300P Class 0.2s (Base Mounting)



- Inform CT/PT ratio while ordering
- Meters with DLMS Protocol (IS 15959)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 110V (L-L) 1 A Class 0.2s BM RS485 Modbus	WR300BB11RS	79170
3Ph, 4W TVM 110V (L-L) 5 A Class 0.2s BM RS485 Modbus	WR300BB51RS	79170

### Meter Reading Instrument [8471]



Description	Cat. No.	M.R.P. (₹) Per Unit
Meter Reading Instrument - (16.5 MB)	990MRIXX000	156710
Meter Optical port to USB cable	990PCXXUSB	1870

### 3 Phase 4 Wire kWh meter LCD type



Model ER300P Base Mounting

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph 4 W kWh CT op base mtg 240V, /5A, Acc 0.5s	WR301BC3C00	6220
3Ph 4 W kWh Dir base mtg 240V 5 - 30 A Acc 1	WR301BC4D20	5210
3Ph 4 W kWh Dir base mtg 240V 10 - 40 A Acc 1	WR301BC6D20	5360
3Ph 4 W kWh Dir base mtg 240V 10 - 60 A Acc 1	WR301BC7D10	6790
3Ph 4 W kWh Dir base mtg 240V 20 - 100 A Acc 1	WR301BC8D10	9840

### Trivector Meter Class 0.5s

Model ER300P Class 0.5s (Base Mounting)



- Inform CT/PT ratio while ordering
- Meters with DLMS Protocol (IS 15959)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 110V (L-L) 1 A Class 0.5s BM RS 485 Modbus	WR300BB12RS	36700
3Ph, 4W TVM 110V (L-L) 5 A Class 0.5s BM RS 485 Modbus	WR300BB52RS	36700
3Ph, 4W TVM 240V (L-N) 5 A Cl 0.5s BM RS 485 Modbus	WR300BC52RS	32910

# - available on request

### Pre-Payment® & Smart Meter Solutions\$

Pre-Payment Meter (IS 15884)@, Smart Meter (IS 16444) solutions please contact our nearest Branch

@ - Long lead item. Available on request

### NET/ABT Meters\$



Net Meters for solar roof top application & solar generation plant please contact our nearest Branch

### ORION (40-200A)\$



Combined CT Meter (Available for Generation and Net Metering)  
\$ For more details please contact nearest branch



## SMART METERING SOLUTION

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# SMARTCOMM



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## MAKING BUSINESSES SMARTER AT EVERY STEP

From designing power distribution systems to maintaining operations, SmartComm provides full visibility, precise control, and predictive insights to maintain energy efficiency

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Embrace open communication protocols such as Modbus TCP, MQTT, IEC61850, OPC-UA, and more



Stay ahead with alerts for power system abnormalities and fault conditions.



Industry



Commercial complex



Building



Utility



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OEM



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### Pre-configured with Lauritz Knudsen Digital Meters



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- **Accessibility:** Accessible from anywhere, enabling remote monitoring and management
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## Multifunction Meter Selection Chart

Parameters Group	Parameters	Basic MFM	MFM				Advanced MFM	
		4400/ 4405	4410	4420	4430	4440	5010	5000
Instantaneous Parameters	V1, V2, V3, V12, V23, V31, Avg (VLN, VLL)	✓	✓	✓	✓	✓	✓	✓
	A1, A2, A3, Aavg	✓	✓	✓	✓	✓	✓	✓
	An (Computed)		✓	✓	✓	✓	✓	✓
	Frequency	✓	✓	✓	✓	✓	✓	✓
	% A Unbal, % V Unbal (Avg and Phase wise)		✓	✓	✓	✓	✓	✓
	PF-1, PF-2, PF-3, PF (Avg)	✓	✓	✓	✓	✓	✓	✓
	RPM (Rotations per minute)		✓	✓	✓	✓	✓	✓
	Phase Angle A°1, A°2, A°3, V°1, V°2, V°3		✓	✓	✓	✓	✓	✓
	W1, W2, W3, W(total)	✓	✓	✓	✓	✓	✓	✓
	VA1, VA2, VA3, VA(total)	✓	✓	✓	✓	✓	✓	✓
	VAr1, VAr2, VAr3, VAr (total)	✓	✓	✓	✓	✓	✓	✓
Cumulative Parameters	Import Wh	✓	✓	✓	✓	✓	✓	✓
	Import VAh	✓	✓	✓	✓	✓	✓	✓
	Import VArh (Lead & Lag)		✓	✓	✓	✓	✓	✓
	Import load hours	✓	✓	✓	✓	✓	✓	✓
	Export Wh				✓		✓	✓
	Export VAh				✓		✓	✓
	Export VArh (Lead & Lag)				✓		✓	✓
	Export run hours				✓		✓	✓
Reset (old) Cumulative parameters	No of Interrupts		✓	✓	✓	✓	✓	✓
	Import Wh	✓	✓	✓	✓	✓	✓	✓
	Import VAh		✓	✓	✓	✓	✓	✓
	Import VArh (Lead & Lag)	✓	✓	✓	✓	✓	✓	✓
	Import load hours	✓	✓	✓	✓	✓	✓	✓
	Export Wh				✓		✓	✓
	Export VAh				✓		✓	✓
	Export VArh (Lead & Lag)				✓		✓	✓
Harmonic	Export run hours				✓		✓	✓
	V THD%, V1, V2, V3 - harmonic (31 <sup>st</sup> )		✓	✓	✓	✓	✓	✓
	A THD%, A1, A2, A3, - harmonic (31 <sup>st</sup> )		✓	✓	✓	✓	✓	✓
Demand / Load parameters	Individual harmonics upto 31 <sup>st</sup> (V, A)						✓	✓
	Maximum demand MD W, MD VA, MD VAr - max avg A (without RTC)			✓	✓			
	Maximum demand MD W, MD VA, MD VAr - max avg A (with RTC)						✓	✓
Min / Max value	Max MD & occurrence time						✓	✓
	VLL, VLN, A, F, W, VA, VAr, PF		✓	✓	✓	✓	✓	✓
Storage	Datalog (8MB)							✓
Communication	RS485 Modus RTU	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Ethernet Port (Modbus TCP/IP)							Optional
Input and Output	Digital and Analog (input and output)							Optional
	Pulse Output		Optional					Optional



## Single Function Meters [9030]

### 1xxx Series

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 V AC / DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- Inbuilt selector switch for 3 phase meters
- CT/PT site programmable
- Frequency parameter available in 3Ph Voltmeter additionally



Description	Cat. No.	M.R.P. (₹) Per Unit
1Ph LED Ammeter CI 1	WL1110100000	1025
1Ph LED Voltmeter CI 1	WL1120100000	1025
3Ph LED Ammeter CI 1	WL1310100000	1565
3Ph LED Voltmeter CI 1	WL1320100000	1565
LED Freq meter CI 0.2	WL1130400000	1025
1Ph LED Ammeter CI 0.5	WL1110200000	1445
1Ph LED Voltmeter CI 0.5	WL1120200000	1445
3Ph LED Ammeter CI 0.5	WL1310200000	1815
3Ph LED Voltmeter CI 0.5	WL1320200000	1815

## Energy Meters [9030]

### 4000 Series

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- Auto scaling of Kilo, Mega and Giga
- Parameters: Site selectable kWh / kVA / PF / W, Old energy



kWh or kVAh  
is site selectable

Energy display  
in kWh in its  
lifetime#

Description	Cat. No.	M.R.P. (₹) Per Unit
kWh LED meter CI 1	WL4000100000	3095
kWh LED meter CI 1 with RS485	WL4000110000	3425
kWh LED meter CI 0.5	WL4000200000	3935
kWh LED meter CI 0.5 with RS485	WL4000210000	4265
kWh LCD meter CI 1	WC4000100000	3505
kWh LCD meter CI 1 with RS485	WC4000110000	3870
kWh LCD meter CI 0.5	WC4000200000	4340
kWh LCD meter CI 0.5 with RS485	WC4000210000	4670

# For 415V LL and CT Primary value of 400 and below

## VAF, VAF + PF Meters [9030]

### 41XX Series



- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- Parameters: VLL, VLN, A, F, PF, On Hrs, RPM, Apeak

Description	Cat. No.	M.R.P. (₹) Per Unit
VAF meter, CI 1 <b>New</b>	WL4100100000	1935
VAF + PF meter, CI 1	WL4110100000	2555
VAF + PF meter with RS485, CI 1	WL4110110000	3200
VAF + PF meter, CI 0.5	WL4110200000	2935
VAF + PF meter with RS485, CI 0.5	WL4110210000	3550

## DIN Type Basic Multifunction Meters [9030]

### 40x0 Series

- New DIN mounting whole current operated meter
- Accuracy Class 1.0
- Inbuilt RS485 option
- Parameters : Voltage, Current, kW, kWh, kVA, kVAh, RPM, Load hours, Interruptions



Description	Module	Cat. No.	M.R.P. (₹) Per Unit
Single Phase - 60A	2	WD4010100000	3100
Three Phase - 80A	5	WD4020100000	6715
Single Phase - 60A (RS485)	2	WD4010110000	4585
Three Phase - 80A (RS485)	5	WD4020110000	10130



# Smart DIN Mounted Energy Meters

Empowering Smart Decisions with Micro-Level Insights

Compact, Accurate & Intelligent

## Dual Source Basic MFM [9030]

### 4040 Series

#### Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- DG sensing input 230 VAC
- Flush mounting 96 X 96 mm
- CT/PT site programmable
- Discrete LED for EB and DG
- True PF or Displacement PF site selectable
- Parameters on Display : kW, kVA, PF, Run hours, kWh (EB and DG), Old energy, Site selectable kWh / kVAh
- Parameters on Communication : V, A, F, kW, kVA, PF, Run hours, kWh (EB and DG), Old energy, Site selectable kWh / kVAh



LCD offers better readability of parameters

kWh or kVAh  
is site selectable

## Basic Multifunction Meters [9030]

### 4405 Series

#### Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- V, A, F, PF, kW, kVA, Old energy, On and Run hours, site selectable kWh/ kVAh
- True PF or Displacement PF site selectable

All parameters  
of 4400 series  
in 3 line  
LED display



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4405 LED meter Cl 1	WL4405100000	6375
MFM 4405 LED meter Cl 1 with RS485	WL4405110000	7195
MFM 4405 LED meter Cl 0.5 with RS485	WL4405210000	8275
MFM 4405 LED meter Cl 0.5S with RS485	WL4405310000	8340

Description	Cat. No.	M.R.P. (₹) Per Unit
Dualsource LED meter Cl1	WL4040100000	4975
Dualsource LED meter Cl1 with RS485	WL4040110000	5855
Dualsource LED meter Cl0.5	WL4040200000	5915
Dualsource LED meter Cl0.5 with RS485	WL4040210000	6925
Dualsource LCD meter Cl1	WC4040100000	5475
Dualsource LCD meter Cl1 with RS485	WC4040110000	6370
Dualsource LCD meter Cl0.5	WC4040200000	6420
Dualsource LCD meter Cl0.5 with RS485	WC4040210000	7350

## Basic Multifunction Meters [9030]

### 4400 Series

#### Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- True PF or Displacement PF site selectable
- V, A, F, PF, kW, kVA, Old energy, Load hours, site selectable kWh/ kVAh



LCD offers better readability of parameters

## Multifunction Meters [9030]

#### Features

- Accuracy Class 1.0, 0.5, 0.5S, 0.2, 0.2S
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- 128 samples / cycle
- My favourite page in LCD multifunction meters site selectable for kWh + 2 parameters
- Dedicated buttons available for direct access to Basic, Power and Energy parameters

True and  
Displacement  
PF available

### Constant Wh viewing in LCD MFM even in auto scroll mode. → LCD offers better readability of parameters



### 4410 Series

- Parameters: V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVArh, Runhours, On hours, Phase angle, Interrupts, THD, Events (High-Low), Neutral Current, K Factor

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4410 LED meter Cl 1	WL4410100000	9190
MFM 4410 LED meter Cl 1 with RS485	WL4410110000	10325
MFM 4410 LED meter Cl 0.5 with RS485	WL4410210000	11875
MFM 4410 LED meter Cl 0.5S with RS485	WL4410310000	13125
MFM 4410 LED meter Cl 0.2 with RS485	WL4410410000	15620
MFM 4410 LED meter Cl 0.2S with RS485	WL4410510000	19995
MFM 4410 LCD meter Cl 1	WC4410100000	10805
MFM 4410 LCD meter Cl 1 with RS485	WC4410110000	11560
MFM 4410 LCD meter Cl 0.5 with RS485	WC4410210000	13485
MFM 4410 LCD meter Cl 0.5S with RS485	WC4410310000	14775
MFM 4410 LCD meter Cl 0.2 with RS485	WC4410410000	17345
MFM 4410 LCD meter Cl 0.2S with RS485	WC4410510000	21835



## Multifunction Meters [9030]

### 4420 Series Max Demand Indicator (without Real time clock)

#### Parameters

- All parameters of 4410 series
- Maximum Demand (kW & kVA)

Standard  
2 Relay outputs  
for MD Alarm

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4420 LED meter Cl 1	WL4420100000	13535
MFM 4420 LED meter Cl 1 with RS485	WL4420110000	14530
MFM 4420 LED meter Cl 0.5 with RS485	WL4420210000	15945
MFM 4420 LED meter Cl 0.5S with RS485	WL4420310000	17175
MFM 4420 LED meter Cl 0.2 with RS485	WL4420410000	19625
MFM 4420 LED meter Cl 0.2S with RS485	WL4420510000	23920
MFM 4420 LCD meter Cl 1	WC4420100000	15500
MFM 4420 LCD meter Cl 1 with RS485	WC4420110000	16600
MFM 4420 LCD meter Cl 0.5 with RS485	WC4420210000	17990
MFM 4420 LCD meter Cl 0.5S with RS485	WC4420310000	19270
MFM 4420 LCD meter Cl 0.2 with RS485	WC4420410000	21835
MFM 4420 LCD meter Cl 0.2S with RS485	WC4420510000	26345

For Max Demand Controller (with Real time clock)  
please refer 6000 series

### 4425 Series MFM for Import-Export New

#### Parameters

- All parameters of 4420 series with Bi-directional (Import-Export)
- Demand parameters with Individual Harmonics up to 31st order
- Ethernet port for communication

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4425 LED meter I/E Cl 1 with Ethernet	WL4425120000	19155
MFM 4425 LED meter I/E Cl 0.5s with Ethernet	WL4425320000	22675
MFM 4425 LED meter I/E Cl 0.2S with Ethernet	WL4425520000	25545

### 4430 Series MFM for Import-Export

#### Parameters

- All parameters of Model 4420 series
- Bi-directional (Import-Export)

Standard  
2 Relay outputs  
for MD Alarm

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4430 LED meter Cl 1	WL4430100000	18995
MFM 4430 LED meter Cl 1 with RS485	WL4430110000	19810
MFM 4430 LED meter Cl 0.5 with RS485	WL4430210000	21020
MFM 4430 LED meter Cl 0.5S with RS485	WL4430310000	22185
MFM 4430 LED meter Cl 0.2 with RS485	WL4430410000	24530
MFM 4430 LED meter Cl 0.2S with RS485	WL4430510000	28615
MFM 4430 LCD meter Cl 1	WC4430100000	20190
MFM 4430 LCD meter Cl 1 with RS485	WC4430110000	20970
MFM 4430 LCD meter Cl 0.5 with RS485	WC4430210000	22185
MFM 4430 LCD meter Cl 0.5S with RS485	WC4430310000	23360
MFM 4430 LCD meter Cl 0.2 with RS485	WC4430410000	25690
MFM 4430 LCD meter Cl 0.2S with RS485	WC4430510000	29785

### 4440 Series

#### Parameters

- All parameters of 4410 series
- Maximum Demand with Real Time Clock (RTC)
- Events (high-low) with time stamp

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4440 LED meter Cl 1 with RS485	WL4440110000	16125
MFM 4440 LED meter Cl 0.5 with RS485	WL4440210000	18125
MFM 4440 LED meter Cl 0.2 with RS485	WL4440410000	22165
MFM 4440 LCD meter Cl 1 with RS485	WC4440110000	17470
MFM 4440 LCD meter Cl 0.5 with RS485	WC4440210000	19475
MFM 4440 LCD meter Cl 0.2 with RS485	WC4440410000	23510

## Advanced Multifunction Meters [9030]

### 5000 Series

#### Features

- Datalog (8 MB)
- Bi-directional (Import - Export)
- 128 samples/ cycle
- Analog I/O, digital I/O variants available
- Meter with Ethernet port available
- V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Interrupts, Phase angle, THD, Neutral current, Max Demand (with RTC) K Factor
- Bi-directional (Import-Export)
- Events (high-low) with time stamp
- Individual Harmonics upto 31st.
- My favourite page in LCD multifunction meters site selectable for kWh + 2 parameters

True and  
Displacement  
PF available

Constant Wh viewing in LCD  
MFM even in auto scroll mode.  
LCD offers better readability  
of parameters



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 5000 LED meter Cl 1 with RS485	WL5000110000	36770
MFM 5000 LED meter Cl 1 with Ethernet	WL5000120000	41785
MFM 5000 LED meter Cl 0.5 with Ethernet	WL5000220000	43575
MFM 5000 LED meter Cl 0.5S with Ethernet	WL5000320000	44775
MFM 5000 LCD meter Cl 1 with RS485	WC5000110000	37980
MFM 5000 LCD meter Cl 1 with Ethernet	WC5000120000	42980
MFM 5000 LCD meter Cl 0.5 with RS485	WC5000210000	39755
MFM 5000 LCD meter Cl 0.5S with RS485	WC5000310000	40960
MFM 5000 LCD meter Cl 0.5 with Ethernet	WC5000220000	44775
MFM 5000 LCD meter Cl 0.5S with Ethernet	WC5000320000	45960
MFM 5000 LCD meter Cl 0.2 with RS485	WC5000410000	43340
MFM 5000 LCD meter Cl 0.2S with RS485	WC5000510000	47520
MFM 5000 LED meter Cl 1 RS485 2A/O	WL5000110B00	
MFM 5000 LED meter Cl 0.5 RS485 2D/I	WL5000210OBO	
MFM 5000 LED meter Cl 0.5 RS485 4D/O	WL500021000D	
MFM 5000 LCD meter Cl 1 RS485 2A/O	WC5000110B00	Price on request
MFM 5000 LCD meter Cl 0.5 RS485 2D/I	WC5000210OBO	
MFM 5000 LCD meter Cl 0.5 RS485 4D/O	WC500021000D	
MFM 5000 LCD meter Cl 1 + RS485, 1AO, 1DO	WC5000110AOA	

5000 series with Digital outputs are preconfigured for

I - THD% at 8% and True PF at 0.98.

Meter can be site selected for parameters and values - A THD, V THD, VA, W, under PF, under/over (VLL, A, F) with programmable trip time (1 to 180 sec) to protect the equipments from electrical abnormalities.

Parameters	Data Log Interval			
	15 Min	30 Min	45 Min	60 Min
No. of Days				
1	10230	20460	30690	40920
2	6820	13640	20460	27280
4	4092	8184	12276	16368
9	2046	4092	6138	8184
14	1364	2728	4092	5456
29	682	1364	2046	2728

## Advanced Multifunction Meters [9030]

### 5010 Series

#### Features

- > 128 samples / cycle
- > Running demand, max demand, prediction demand in single page window

#### Parameters

- > V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Interrupts, Phase angle, THD, Neutral current, Max Demand (with RTC)
- > Bi-directional (Import-Export)
- > Events (high-low) with time stamp
- > Individual Harmonics upto 31st.

True and Displacement PF available



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 5010 LED meter Cl 1	WL5010100000	14155
MFM 5010 LED meter Cl 1 with RS485	WL5010110000	14765
MFM 5010 LED meter Cl 0.5S	WL5010300000	17415
MFM 5010 LED meter Cl 0.5S with RS485	WL5010310000	18375
MFM 5010 LED meter Cl 0.2 with RS485	WL5010410000	20310

### Maximum Demand Controller [9030]

### 6000 Series

#### Features

- > Accuracy Class 1.0, 0.5S
- > Input voltage measurement range 50-520 VAC (P-P)
- > Aux supply 80-300 VAC/DC
- > CT secondary site selectable 1A / 5A
- > Flush mounting 96 x 96 mm
- > CT/PT site programmable
- > Datalog (8MB)
- > 4 relay outputs for Max. demand controller
- > Time of Day (TOD) 6 slots available
- > Block/sliding window site selectable
- > Running demand, max demand, prediction demand in single page window
- > Individual harmonics upto 31st.

8MB Datalog - Configurable for 29 parameters including kWh, Demand and Harmonics for Minimum 1 mins interval

#### Parameters

- > V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Intr, Phase angle, THD, Events, Neutral current, Max Demand (with RTC)



True and Displacement PF available

Description	Cat. No.	M.R.P. (₹) Per Unit
MDC 6000 LED meter Cl 1 with RS485	WL6000110000	32330
MDC 6000 LED meter Cl 0.5S with RS485	WL6000310000	35440
MDC 6000 LCD meter Cl 1 with RS485	WC6000110000	33570
MDC 6000 LCD meter Cl 0.5S with RS485	WC6000310000	36680

### Power Quality Meter Range [9030]

#### WC7000 – Power Quality Monitor New

##### Parameters

- > 512 samples/cycle with Class 0.2s accuracy as per IEC 62053-22
- > LCD display with 4-digit instantaneous & 8-digit integrated readings
- > Dual Communication Port (RS485 + Ethernet) with Web Server
- > PQ Parameters Recording & monitoring like THD, TDD, Harmonics (up to 61st order), Sag, Swell & Interruption.
- > USB Port for Downloading Data Log
- > TOU with up to 8 slots
- > Standard 2DI & 2 DO



Description	Cat. No.	M.R.P. (₹) Per Unit
PQM 7000 LCD Cl0.2s RS485+Eth DL, sag+swell	WC70005300BB	Price on request

#### WC8000 – Power Quality Analyzer New

##### Parameters

- > 1024 samples/cycle with Class 0.2s accuracy as per IEC 62053-22
- > Class A metering as per IEC 61000-4-30
- > 5.0" Color TFT with capacitive touch
- > PQ Parameters Recording & monitoring like THD, TDD, Odd, Even & Inter Harmonics (up to 127st order), Sag, Swell, Transient, Flicker, RVC & Interruption.
- > USB port for data log download as well as Event Data in CommTrade Format
- > Dual Communication Port (RS485 + Ethernet) with Web Server
- > MQTT, SMTP, SNTP protocols for secured cloud publishing
- > Report Generation - IEC 61000 - 4 - 30, IEEE 519, EN 50610, ITIC/CBEMA Curve



Description	Cat. No.	M.R.P. (₹) Per Unit
PQA 8000 Class A TFT Cl0.2s RS485+Eth DL	WC8000530000	Price on request





Gateways and converters form the backbone of interconnected networks, and are a crucial link between our devices and cloud-based or on-premises software. They facilitate seamless communication, protocol translation, and data aggregation from various type of devices, enabling efficient data transmission and integration.

#### TG1000

- › Modbus RS485 to MODBUS TCP/IP Gateway
- › Easy integration with SmartComm EMS/PMS On-prem or 3<sup>rd</sup> party Software/HMI



#### MQ1000 \*

- › MQTT Gateway with Ethernet port
- › Only Compatible with SmartComm EMS Cloud
- › Compact & Secure
- › Data storage in case of network failure
- › Web browser-based configuration



Description	Cat. No.	M.R.P. (₹) Per Unit
MODBUS RTU to TCP/IP Gateway	TG10000000	22000

#### MQ2000 \*

- › 4G IoT Gateway with Sim Card (Modbus RS485 and MQTT support)
- › Only Compatible with SmartComm EMS Cloud, SmartComm Operate and SmartComm IMS
- › Compact & Secure
- › Data storage in SD Card in case of network failure
- › 4G with 2G fall back cellular connectivity



#### XR SERIES \*

- › 4G IoT Gateway with Dual Sim (Modbus RS485, Modbus TCP/IP and MQTT support)
- › Only Compatible with SmartComm Operate
- › Advanced VPN Routing
- › Wide range of Industrial protocols support: IEC60870-5-101 Master / Slave , IEC 60870-5-104 Master / Slave , IEEE 62056-21 DLMS , DNP3 Slave



## Thermal Monitoring Module

#### TMZ \*

- › Monitor temperature remotely
- › Wireless monitoring of 8 critical joints in a switchboard with a single module
- › Quick Installation and seamless Monitoring



\*For more details, please contact the nearest branch office

#### ZG1000 \*

##### Only Compatible with TMZ

- › IEEE 802.15.4 to Modbus TCP/IP Gateway
- › Built-in webpages for ease of monitoring and multi-client support
- › Integrates with SmartComm PMS/HMI/any 3rd party software on the Modbus TCP/IP side

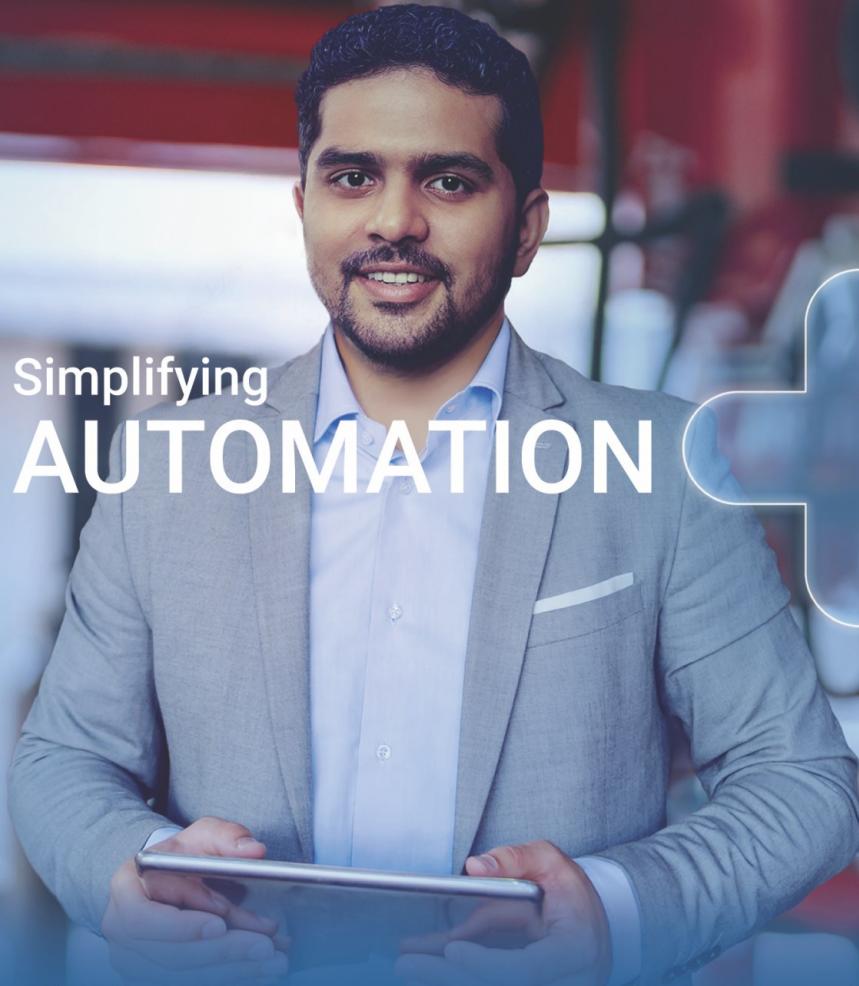


**SMARTCOMM**  
Edge

**Wireless Thermal Monitoring**  
Insight into Every Critical Joint in a Switchboard

**Anytime Anywhere**





# Simplifying **AUTOMATION**



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Scan to enquire



### xD1000

Range : 0.37kW HD to 30kW ND

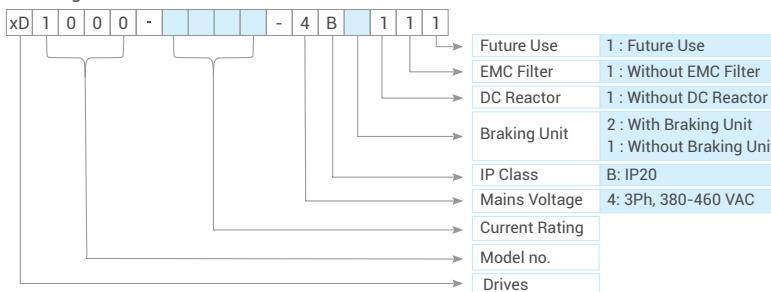


- › Rated @ 55°C (HD), @ 50°C (ND)
- › Transient overtorque 170%~200%
- › 4 DI, 2 DOs, 1AI, 1AO
- › Inbuilt PID with 4 Preset PID references, Sleep & Wakeup, Predictive speed
- › Auxiliary Pump control
- › Catch on the Fly
- › Skip Frequency
- › Automatic Restart
- › Stall Prevention
- › Current limiting function

Input Voltage	Description	Cat. No.	Frame Size	M.R.P. (₹) Per Unit
Three Phase 415 VAC	xD1000 415V Drive 0.37kW(HD)	XD1000-01P5-4B1111	S1	*
	xD1000 415V Drive 0.75kW(HD)	XD1000-02P3-4B1111	S1	*
	xD1000 415V Drive 1.50kW(HD)	XD1000-04P1-4B2111	S2	*
	xD1000 415V Drive 2.20kW(HD)	XD1000-05P5-4B2111	S2	*
	xD1000 415V Drive 3.00kW(HD)/4.00kW(ND)	XD1000-08P9-4B2111	S3	*
	xD1000 415V Drive 4.00kW(HD)/5.50kW(ND)	XD1000-12P1-4B2111	S3	*
	xD1000 415V Drive 5.50kW(HD)/7.50kW(ND)	XD1000-16P0-4B2111	S3	*
	xD1000 415V Drive 7.50kW(HD)/11.0kW(ND)	XD1000-22P8-4B2111	S4	*
	xD1000 415V Drive 11.0kW(HD)/15.0kW(ND)	XD1000-30P0-4B2111	S4	*
	xD1000 415V Drive 15.0kW(HD)/18.5kW(ND)	XD1000-36P0-4B2111	S5	*
	xD1000 415V Drive 18.5kW(HD)/22.0kW(ND)	XD1000-43P0-4B2111	S5	*
	xD1000 415V Drive 22.0kW(HD)/30.0kW(ND)	XD1000-60P0-4B2111	S6	*

Note: \* For prices please contact nearest branch office

Ordering Information for xD1000 AC Drive



### xD2000

Range : 0.37kW HD to 160kW ND



- › Suitable for non-regenerative applications
- › Rated for -15 to 45°C HD as well as ND ratings
- › Inbuilt EMC filter with Category C3 EMC levels
- › Inbuilt DC reactor from 4 kW to 160kW
- › Inbuilt detachable LCD keypad
- › 6 DI, 3 RO, 3 AI, 2 AO
- › External 24 VDC connection to keep control circuit alive during power outage
- › Pump and Compressor specific functions
- › 2 functions to one DI
- › Torque Boost (IR Compensation)
- › Slip Compensation
- › Auto Tuning
- › Decel. Ramp Adaptation
- › 16 Preset speeds
- › Skip (Jump) Frequency
- › Current Limitation
- › DC Braking / Stop
- › Freewheel Stop & Fast Stop

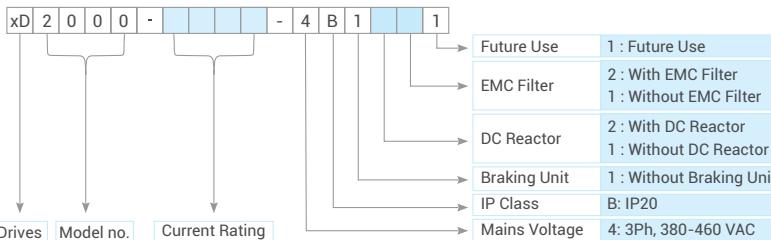
Input Voltage	Description	Cat. No.	Frame Size	M.R.P. (₹) Per Unit
Three Phase 415 VAC	XD2000 415V Drive 0.37kW(HD)/0.75kW(ND)	XD2000-02P2-4B1121	S1	*
	XD2000 415V Drive 0.75kW(HD)/1.50kW(ND)	XD2000-04P0-4B1121	S1	*
	XD2000 415V Drive 1.50kW(HD)/2.20kW(ND)	XD2000-05P6-4B1121	S1	*
	XD2000 415V Drive 2.20kW(HD)/3.00kW(ND)	XD2000-07P2-4B1121	S1	*
	XD2000 415V Drive 3.00kW(HD)/4.00kW(ND)	XD2000-09P3-4B1221	S1	*
	XD2000 415V Drive 4.00kW(HD)/5.50kW(ND)	XD2000-12P7-4B1221	S1	*
	XD2000 415V Drive 5.50kW(HD)/7.50kW(ND)	XD2000-15P8-4B1221	S1	*
	XD2000 415V Drive 7.50kW(HD)/11.0kW(ND)	XD2000-23P5-4B1221	S2	*
	XD2000 415V Drive 11.0kW(HD)/15.0kW(ND)	XD2000-31P7-4B1221	S2	*
	XD2000 415V Drive 15.0kW(HD)/18.5kW(ND)	XD2000-39P2-4B1221	S3	*
	XD2000 415V Drive 18.5kW(HD)/22.0kW(ND)	XD2000-46P3-4B1221	S3	*
	XD2000 415V Drive 22.0kW(HD)/30.0kW(ND)	XD2000-61P5-4B1221	S4	*
	XD2000 415V Drive 30.0kW(HD)/37.0kW(ND)	XD2000-74P5-4B1221	S4	*
	XD2000 415V Drive 37.0kW(HD)/45.0kW(ND)	XD2000-88P0-4B1221	S4	*
	XD2000 415V Drive 45.0kW(HD)/55.0kW(ND)	XD2000-120P-4B1221	S5	*
	XD2000 415V Drive 55.0kW(HD)/75.0kW(ND)	XD2000-145P-4B1221	S5	*
	XD2000 415V Drive 75.0kW(HD)/90.0kW(ND)	XD2000-173P-4B1221	S5	*
	XD2000 415V Drive 90.0kW(HD)/110kW(ND)	XD2000-211P-4B1221	S6	*
	XD2000 415V Drive 110kW(HD)/132kW(ND)	XD2000-250P-4B1221	S6	*
	XD2000 415V Drive 132kW(HD)/160kW(ND)	XD2000-302P-4B1221	S6	*

Note:

\* For prices please contact nearest branch office

Drives are covered under HS code 8504 40 90 and are charged at 18% GST.

Ordering Information for xD2000 AC Drive



## xD3000

Range: 0.18kW HD to 15kW HD



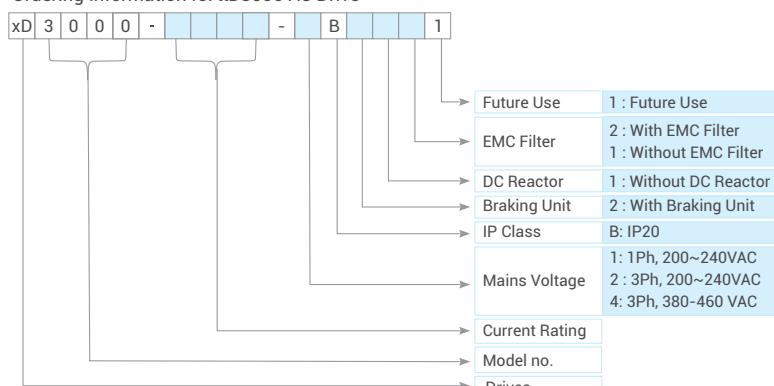
- › Suitable for machine applications
- › Rated for -10 to 50°C ambient temperature
- › Inbuilt EMC filter for EMC category C2
- › Inbuilt braking transistor
- › 6 DI, 3 DO, 3 AI, 1 AO, 1 STO input
- › External 24 VDC to keep control circuit on during power outages
- › Delinearization for Analog Inputs
- › Reference Addition, Subtraction & Multiplication
- › Hoisting - External Brake Control, Load (External Weight) Measurement, High-speed Hoisting, Rope Slack
- › Motor / Generator Torque Limit
- › Line Contactor Control & Output Contactor Control
- › Positioning by Limit Switches or Sensors
- › Traverse control for textile machines
- › 8 nos. trip history

Input Voltage	Description	Cat. No.	Frame Size	M.R.P. (₹) Per Unit
Single Phase 230 VAC	XD3000 230V 1Ph Drive 0.18kW(HD)	XD3000-01P5-1B2121	S1	*
	XD3000 230V 1Ph Drive 0.37kW(HD)	XD3000-03P3-1B2121	S1	*
	XD3000 230V 1Ph Drive 0.55kW(HD)	XD3000-03P7-1B2121	S1	*
	XD3000 230V 1Ph Drive 0.75kW(HD)	XD3000-04P8-1B2121	S1	*
	XD3000 230V 1Ph Drive 1.10kW(HD)	XD3000-06P9-1B2121	S2	*
	XD3000 230V 1Ph Drive 1.50kW(HD)	XD3000-08P0-1B2121	S2	*
	XD3000 230V 1Ph Drive 2.20kW(HD)	XD3000-11P0-1B2121	S2	*
Three Phase 230 VAC	XD3000 230V 3Ph Drive 0.18kW(HD)	XD3000-01P5-2B2111	S1	*
	XD3000 230V 3Ph Drive 0.37kW(HD)	XD3000-03P3-2B2111	S1	*
	XD3000 230V 3Ph Drive 0.55kW(HD)	XD3000-03P7-2B2111	S1	*
	XD3000 230V 3Ph Drive 0.75kW(HD)	XD3000-04P8-2B2111	S1	*
	XD3000 230V 3Ph Drive 1.10kW(HD)	XD3000-06P9-2B2111	S2	*
	XD3000 230V 3Ph Drive 1.50kW(HD)	XD3000-08P0-2B2111	S2	*
	XD3000 230V 3Ph Drive 2.20kW(HD)	XD3000-11P0-2B2111	S2	*
	XD3000 230V 3Ph Drive 3.00kW(HD)	XD3000-13P7-2B2111	S3	*
	XD3000 230V 3Ph Drive 4.00kW(HD)	XD3000-17P5-2B2111	S3	*
	XD3000 230V 3Ph Drive 5.50kW(HD)	XD3000-27P5-2B2111	S4	*
	XD3000 230V 3Ph Drive 7.50kW(HD)	XD3000-33P0-2B2111	S4	*
	XD3000 230V 3Ph Drive 11.0kW(HD)	XD3000-54P0-2B2111	S5	*
	XD3000 230V 3Ph Drive 15.0kW(HD)	XD3000-66P0-2B2111	S5	*
	XD3000 415V 3Ph Drive 0.37kW(HD)	XD3000-01P5-4B2121	S2	*
Three Phase 415 VAC	XD3000 415V 3Ph Drive 0.55kW(HD)	XD3000-01P9-4B2121	S2	*
	XD3000 415V 3Ph Drive 0.75kW(HD)	XD3000-02P3-4B2121	S2	*
	XD3000 415V 3Ph Drive 1.10kW(HD)	XD3000-03P0-4B2121	S2	*
	XD3000 415V 3Ph Drive 1.50kW(HD)	XD3000-04P1-4B2121	S2	*
	XD3000 415V 3Ph Drive 2.20kW(HD)	XD3000-05P5-4B2121	S3	*
	XD3000 415V 3Ph Drive 3.00kW(HD)	XD3000-07P1-4B2121	S3	*
	XD3000 415V 3Ph Drive 4.00kW(HD)	XD3000-09P5-4B2121	S3	*
	XD3000 415V 3Ph Drive 5.50kW(HD)	XD3000-14P3-4B2121	S4	*
	XD3000 415V 3Ph Drive 7.50kW(HD)	XD3000-17P0-4B2121	S4	*
	XD3000 415V 3Ph Drive 11.0kW(HD)	XD3000-27P7-4B2121	S5	*
	XD3000 415V 3Ph Drive 15.0kW(HD)	XD3000-33P0-4B2121	S5	*

**Note:**

\* For prices please contact nearest branch office

Ordering Information for xD3000 AC Drive



## xD4000

Range : 0.37kW HD to 315kW ND

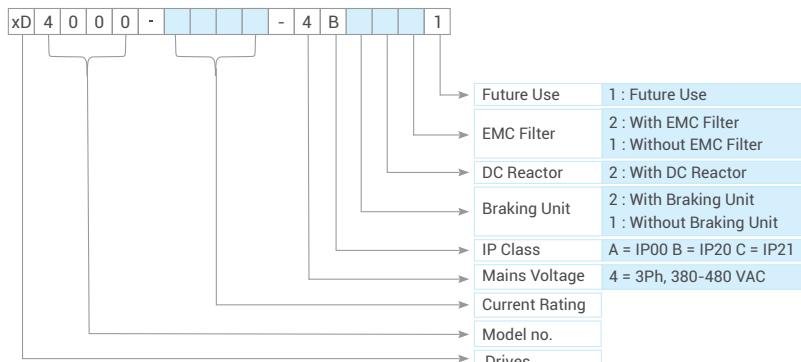


- › Detachable 8 line Graphical LCD keypad with battery for RTC & Help Menu
- › Rated for -10 to 50°C ambient temperature
- › Inbuilt DC Reactor over entire range
- › Inbuilt EMC filter entire range for EMC levels C2 / C3
- › Inbuilt Dual port Ethernet IP / Modbus TCP & Modbus RS485 ports
- › Inbuilt Braking transistor upto 160kW HD.
- › 8 DI, 4 DO, 3 AI, 2 AO, 2 STO inputs
- › Crane specific functions
- › Pump specific functions
- › Line & Output Contactor control
- › Load Sharing, Speed – Torque master slave
- › Multi-motor configuration Mode
- › Automatic Restart
- › Catch on the fly (Flying Start)
- › Fault Inhibition / Error detect disabling (Fire Mode)
- › 15 nos. trip histories with date and time Stamp

Input Voltage	Description	Cat. No.	Frame Size	M.R.P. (₹) Per Unit
Three Phase 415 VAC	XD4000 415V Drive 0.37kW(HD)/0.75kW(ND)	XD4000-02P2-4C2221	S1	*
	XD4000 415V Drive 0.75kW(HD)/1.50kW(ND)	XD4000-04P0-4C2221	S1	*
	XD4000 415V Drive 1.50kW(HD)/2.20kW(ND)	XD4000-05P6-4C2221	S1	*
	XD4000 415V Drive 2.20kW(HD)/3.00kW(ND)	XD4000-07P2-4C2221	S1	*
	XD4000 415V Drive 3.00kW(HD)/4.00kW(ND)	XD4000-09P3-4C2221	S1	*
	XD4000 415V Drive 4.00kW(HD)/5.50kW(ND)	XD4000-12P7-4C2221	S1	*
	XD4000 415V Drive 5.50kW(HD)/7.50kW(ND)	XD4000-16P5-4C2221	S2	*
	XD4000 415V Drive 7.50kW(HD)/11.0kW(ND)	XD4000-23P5-4C2221	S2	*
	XD4000 415V Drive 11.0kW(HD)/15.0kW(ND)	XD4000-31P7-4C2221	S3	*
	XD4000 415V Drive 15.0kW(HD)/18.5kW(ND)	XD4000-39P2-4C2221	S3	*
	XD4000 415V Drive 18.5kW(HD)/22.0kW(ND)	XD4000-46P3-4C2221	S3	*
	XD4000 415V Drive 22.0kW(HD)/30.0kW(ND)	XD4000-61P5-4C2221	S4	*
	XD4000 415V Drive 30.0kW(HD)/37.0kW(ND)	XD4000-74P5-4C2221	S4	*
	XD4000 415V Drive 37.0kW(HD)/45.0kW(ND)	XD4000-88P0-4C2221	S4	*
	XD4000 415V Drive 45.0kW(HD)/55.0kW(ND)	XD4000-106P-4C2221	S5	*
	XD4000 415V Drive 55.0kW(HD)/75.0kW(ND)	XD4000-145P-4C2221	S5	*
	XD4000 415V Drive 75.0kW(HD)/90.0kW(ND)	XD4000-173P-4C2221	S5	*
	XD4000 415V Drive 90.0kW(HD)/110kW(ND)	XD4000-211P-4B2221	S6	*
	XD4000 415V Drive 110kW(HD)/132kW(ND)	XD4000-250P-4B2221	S6	*
	XD4000 415V Drive 132kW(HD)/160kW(ND)	XD4000-302P-4B2221	S6	*
	XD4000 415V Drive 160kW(HD)/220kW(ND)	XD4000-427P-4A2221	S7A	*
	XD4000 415V Drive 200kW(HD)/250kW(ND)	XD4000-481P-4A1221	S7B	*
	XD4000 415V Drive 250kW(HD)/315kW(ND)	XD4000-616P-4A1221	S7B	*

Note: \* For prices please contact nearest branch office

Ordering Information for xD4000 AC Drive



## Accessories for AC Drives [8504]

Drive Model	Description	Cat. No.	M.R.P. (₹) Per Unit
xD1000	IP54 LED Remote Keypad	XDOP-DOP-100	*
xD2000	IP21 LCD Std. Graphical Keypad	XDOP-DOP-300	*
	Remote Mounting Kit for IP21 LCD Keypad	XDKT-DOP-300	*
	IP65 LCD Graphical Keypad	XDOP-DOP-500	*
	Mounting kit for IP65 LCD Keypad	XDKT-DOP-500	*
	IO Expansion Card-1 - 6DI,2DO,2AI	XDIO-EX1-V01	*
	IO Expansion Card-2 - 3RO	XDIO-EX2-V01	*
	Profibus-DP Comm. Card	XDCI-PDP-V01	*
xD3000	IP54 LED Remote Keypad	XDOP-DOP-100	*
	IP65 LCD Graphical Keypad	XDOP-DOP-500	*
	Mounting kit for IP65 LCD Keypad	XDKT-DOP-500	*
	Communication Option Module Adapter	XDKT-ADP-V01	*
	Speed Monitoring Card	XDEN-SPD-V01	*
	Modbus TCP/EtherNet IP Comm. Card	XDCI-ETH-V01	*
	EtherCAT Comm. Card	XDCI-ECT-V01	*
	Profibus-DP Comm. Card	XDCI-PDP-V01	*
	DeviceNet Comm. Card	XDCI-DEN-V01	*
	POWERLINK Comm. Card	XDCI-PLN-V01	*
	ProfiNet Comm. Card	XDCI-PFN-V01	*
	CANopen DaisyChain Comm. Card	XDCI-CND-V01	*
	CANopen SUB-D Comm. Card	XDCI-CNS-V01	*
	CANopen Terminals Comm. Card	XDCI-CNT-V01	*
	Additional Safety Integrity Module	XDSI-SIM-V01	*
xD4000	IP65 LCD Graphical Keypad	XDOP-DOP-500	*
	Mounting kit for IP65 LCD Keypad	XDKT-DOP-500	*
	IO Expansion Card-1 - 6DI,2DO,2AI	XDIO-EX1-V01	*
	IO Expansion Card-2 - 3RO	XDIO-EX2-V01	*
	Digital Encoder Interface Card	XDEN-DEI-V01	*
	Analog Encoder Interface Module	XDEN-AEI-V01	*
	Resolver Interface Module	XDEN-REI-V01	*
	HTL Encoder Interface Module	XDEN-HEI-V01	*
	EtherCAT Comm. Card	XDCI-ECT-V01	*
	Profibus-DP Comm. Card	XDCI-PDP-V01	*
	DeviceNet Comm. Card	XDCI-DEN-V01	*
	POWERLINK Comm. Card	XDCI-PLN-V01	*
	ProfiNet Comm. Card	XDCI-PFN-V01	*
	ProfiNet Comm. Card - Redundant	XDCI-PFN-V02	*
	CANopen DaisyChain Comm. Card	XDCI-CND-V01	*
	CANopen SUB-D Comm. Card	XDCI-CNS-V01	*
	CANopen Terminals Comm. Card	XDCI-CNT-V01	*
	Additional Safety Integrity Module	XDSI-SIM-V01	*

**Note:**

\* For prices please contact nearest branch office  
 Drives are covered under HS code 8504 40 90 and are charged at 18% GST.



## xS1000 Soft Starters

Range: 18A to 200A



### xS1000 Soft Starters: For Standard Applications

- › Inbuilt Bypass Contactor
- › Soft Start / Soft Stop
- › Compact in size
- › Truly plug & play
- › Communication options available

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS1000,18A,M:200-440VAC,C:110/230-440VAC	XS1000-0018-B44111	*	
xS1000,34A,M:200-440VAC,C:110/230-440VAC	XS1000-0034-B44111	*	
xS1000,42A,M:200-440VAC,C:110/230-440VAC	XS1000-0042-B44111	*	
xS1000,48A,M:200-440VAC,C:110/230-440VAC	XS1000-0048-B44111	*	
xS1000,60A,M:200-440VAC,C:110/230-440VAC	XS1000-0060-B44111	*	
xS1000,75A,M:200-440VAC,C:110/230-440VAC	XS1000-0075-B44111	*	
xS1000,85A,M:200-440VAC,C:110/230-440VAC	XS1000-0085-B44111	*	
xS1000,100A,M:200-440VAC,C:110/230-440VAC	XS1000-0100-B44111	*	
xS1000,140A,M:200-440VAC,C:110/230-440VAC	XS1000-0140-B44111	*	
xS1000,170A,M:200-440VAC,C:110/230-440VAC	XS1000-0170-B44111	*	
xS1000,200A,M:200-440VAC,C:110/230-440VAC	XS1000-0200-B44111	*	

Built - In

## xS2000 Soft Starters

Range: 18A to 200A



### xS2000 Soft Starters: For standard applications

- › Inbuilt Bypass Contactor
- › Soft start / Soft stop / Adjustable current limit
- › Essential motor protections against
  - » Overload
  - » Single phasing
  - » Instantaneous overcurrent
  - » Phase sequence reversal
  - » Abnormality in supply
  - » Unbalanced current
- › Thermistor protection through PTC
- › Excess start time setting
- › Communication options available
- › PC Interface as optional

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS2000,18A,M:200-440VAC,C:110/230-440VAC	XS2000-0018-B44111	*	
xS2000,34A,M:200-440VAC,C:110/230-440VAC	XS2000-0034-B44111	*	
xS2000,42A,M:200-440VAC,C:110/230-440VAC	XS2000-0042-B44111	*	
xS2000,48A,M:200-440VAC,C:110/230-440VAC	XS2000-0048-B44111	*	
xS2000,60A,M:200-440VAC,C:110/230-440VAC	XS2000-0060-B44111	*	
xS2000,75A,M:200-440VAC,C:110/230-440VAC	XS2000-0075-B44111	*	
xS2000,85A,M:200-440VAC,C:110/230-440VAC	XS2000-0085-B44111	*	
xS2000,100A,M:200-440VAC,C:110/230-440VAC	XS2000-0100-B44111	*	
xS2000,140A,M:200-440VAC,C:110/230-440VAC	XS2000-0140-B44111	*	
xS2000,170A,M:200-440VAC,C:110/230-440VAC	XS2000-0170-B44111	*	
xS2000,200A,M:200-440VAC,C:110/230-440VAC	XS2000-0200-B44111	*	

Built - In

### Note:

\* For prices please contact nearest branch office

The above xS1000 & xS2000 ratings are based on 400% starting current, 10 starts per hour up to 60A & 6 starts per hour for 75A & above, 6 seconds starting time and ambient temperature of 40°C.

For proper sizing of soft starter based on the application parameters please use Winstart Software.

### Ordering Information for xS1000 & xS2000 Series Soft Starter

xS    nnnn - 1234 - B V C D F F

xS    Soft starters	
<b>Soft starter Name</b>	
nnnn	1000 xS1000
	2000 xS2000
<b>Current Rating</b>	
1234	1234 Nominal Current Rating
<b>Bypass Type</b>	
B	B Internal Bypass
<b>Mains Voltage</b>	
V	4 3Ph, 200-440VAC
	5 3Ph, 200-575VAC
<b>Control Voltage</b>	
C	1 24V AC/DC
	4 110/230-440V AC
<b>Graphical Display</b>	
D	1 No Graphical Display
<b>Future Use</b>	
F	1 Future Use
<b>Future Use</b>	
F	1 Future Use

### We recommend the use of:

1. Line Contactor : This will isolate and protect the soft starter SCR's from any voltage transient while it's not in operation.

2. Bypass Contactor (For models without built-in bypass) : This will bypass and protect the soft starter SCR's while in running state from Current and Voltage transient's.

3. Semiconductor fuses : This will protect the starter SCR's during starting and stopping states from current transient's and excess I<sup>2</sup>T.

### Note:

\* For prices please contact nearest branch office

Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.



## Digital Soft Starters [8504]

### xS3000 Soft Starters

Range: 24A to 580A



- › Built in bypass contactor
- › Compact & Flexible Design
- › Screw-less design for easy and fast servicing
- › USB port for easy and fast commissioning and data extraction
- › Full graphical display with multi-languages support
- › Built-in Simulation Mode
- › 384 event logs
- › Communication options available
- › Fire Mode Function
- › Starts per hour count

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS3000,24A,M:200-525VAC,C:110/220VAC	XS3000-0024-B52211	*	
xS3000,42A,M:200-525VAC,C:110/220VAC	XS3000-0042-B52211	*	
xS3000,52A,M:200-525VAC,C:110/220VAC	XS3000-0052-B52211	*	
xS3000,64A,M:200-525VAC,C:110/220VAC	XS3000-0064-B52211	*	
xS3000,69A,M:200-525VAC,C:110/220VAC	XS3000-0069-B52211	*	
xS3000,105A,M:200-525VAC,C:110/220VAC	XS3000-0105-B52211	*	
xS3000,115A,M:200-525VAC,C:110/220VAC	XS3000-0115-B52211	*	
xS3000,135A,M:200-525VAC,C:110/220VAC	XS3000-0135-B52211	*	
xS3000,184A,M:200-525VAC,C:110/220VAC	XS3000-0184-B52211	*	Built - In
xS3000,200A,M:200-525VAC,C:110/220VAC	XS3000-0200-B52211	*	
xS3000,229A,M:200-525VAC,C:110/220VAC	XS3000-0229-B52211	*	
xS3000,250A,M:200-525VAC,C:110/220VAC	XS3000-0250-B52211	*	
xS3000,352A,M:200-525VAC,C:110/220VAC	XS3000-0352-B52211	*	
xS3000,397A,M:200-525VAC,C:110/220VAC	XS3000-0397-B52211	*	
xS3000,410A,M:200-525VAC,C:110/220VAC	XS3000-0410-B52211	*	
xS3000,550A,M:200-525VAC,C:110/220VAC	XS3000-0550-B52211	*	
xS3000,580A,M:200-525VAC,C:110/220VAC	XS3000-0580-B52211	*	

### xS4000 Soft Starters

Range: 24A to 1250A



- › Built in bypass contactor
- › Compact & Flexible Design
- › Screw-less design for easy and fast servicing
- › USB port for easy and fast commissioning and data extraction
- › Full graphical display with multi-languages support
- › Real time graphs of motor operating performance
- › 384 event logs with time stamping
- › Advanced protection system
- › Communication options available
- › Smart card for level controlled pump activation and pump protection
- › Under Voltage / Over Voltage protection available
- › Fire Mode Function
- › Starts per hour count
- › Power through function available
- › Scheduling based on RTC

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS4000,24A,M:200-525VAC,C:110/220VAC	XS4000-0024-B52211	*	
xS4000,42A,M:200-525VAC,C:110/220VAC	XS4000-0042-B52211	*	
xS4000,52A,M:200-525VAC,C:110/220VAC	XS4000-0052-B52211	*	
xS4000,64A,M:200-525VAC,C:110/220VAC	XS4000-0064-B52211	*	
xS4000,69A,M:200-525VAC,C:110/220VAC	XS4000-0069-B52211	*	
xS4000,105A,M:200-525VAC,C:110/220VAC	XS4000-0105-B52211	*	
xS4000,115A,M:200-525VAC,C:110/220VAC	XS4000-0115-B52211	*	
xS4000,135A,M:200-525VAC,C:110/220VAC	XS4000-0135-B52211	*	
xS4000,184A,M:200-525VAC,C:110/220VAC	XS4000-0184-B52211	*	
xS4000,200A,M:200-525VAC,C:110/220VAC	XS4000-0200-B52211	*	
xS4000,229A,M:200-525VAC,C:110/220VAC	XS4000-0229-B52211	*	
xS4000,250A,M:200-525VAC,C:110/220VAC	XS4000-0250-B52211	*	
xS4000,352A,M:200-525VAC,C:110/220VAC	XS4000-0352-B52211	*	
xS4000,397A,M:200-525VAC,C:110/220VAC	XS4000-0397-B52211	*	
xS4000,410A,M:200-525VAC,C:110/220VAC	XS4000-0410-B52211	*	
xS4000,550A,M:200-525VAC,C:110/220VAC	XS4000-0550-B52211	*	
xS4000,580A,M:200-525VAC,C:110/220VAC	XS4000-0580-B52211	*	
xS4000,835A,M:200-525VAC,C:110/220VAC	XS4000-0835-B52211	*	
xS4000,940A,M:200-525VAC,C:110/220VAC	XS4000-0940-B52211	*	
xS4000,1070A,M:200-525VAC,C:110/220VAC	XS4000-1070-B52211	*	
xS4000,1230A,M:200-525VAC,C:110/220VAC	XS4000-1230-B52211	*	
xS4000,1250A,M:200-525VAC,C:110/220VAC	XS4000-1250-B52211	*	
xS4000,735A,M:200-525VAC,C:110/220VAC	XS4000-0735-C52211	*	
xS4000,830A,M:200-525VAC,C:110/220VAC	XS4000-0830-C52211	*	
xS4000,1025A,M:200-525VAC,C:110/220VAC	XS4000-1025-C52211	*	
xS4000,1170A,M:200-525VAC,C:110/220VAC	XS4000-1170-C52211	*	
xS4000,1220A,M:200-525VAC,C:110/220VAC	XS4000-1220-C52211	*	

xS	nnnn	-	1234	-	B	V	C	D	F	F
xS	Soft starters									
nnnn	Soft starter Name									
	3000 xS3000									
	4000 xS4000									
1234	Current Rating									
	1234 Nominal Current Rating									
B	Bypass Type									
	B Internal Bypass									
	C Continuous / External Bypass									
V	Mains Voltage									
	5 3Ph, 200-525VAC									
	6 3Ph, 380-600VAC									
	7 3Ph, 380-690VAC									

#### Note:

\* For prices please contact nearest branch office  
Prices for 1000V and External Bypass soft starter below 735A available on request Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.

We recommend the use of:

1. Line Contactor : This will isolate and protect the soft starter SCR's from any voltage transient while it's not in operation.
2. Semiconductor fuses : This will protect the starter SCR's during starting and stopping states from current transient's and excess i<sub>T</sub>.
3. Bypass Contactor (For models without built-in bypass) : This will bypass and protect the soft starter SCR's while in running state from Current and Voltage transient's.

External bypass contactor (AC1 rating)  
All protections remain active during bypass operation



## Optional Modules/Cards for xS Series

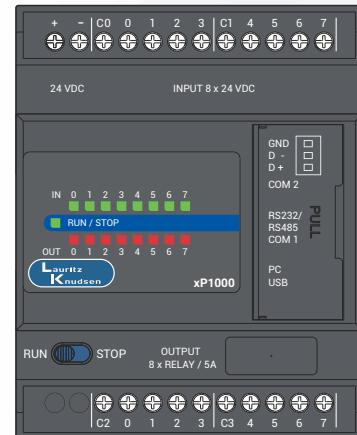
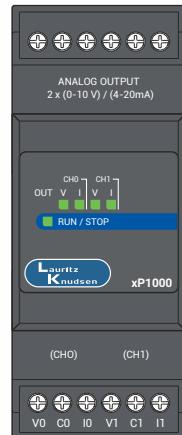
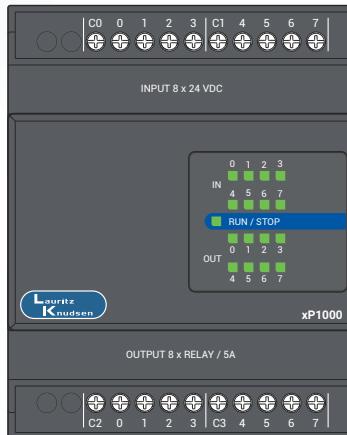


Description	Cat. No.	M.R.P. (₹) Per Unit
xS1000 & xS2000 Modbus RTU Card	XSCI-RTU-121	*
xS1000 & xS2000 Modbus TCP Card	XSCI-TCP-123	*
xS1000 & xS2000 Profibus Card	XSCI-PDP-121	*
xS1000 & xS2000 Profinet Card	XSCI-PFN-122	*
xS1000 & xS2000 Ethernet Card	XSCI-ETH-122	*
xS1000 & xS2000 DeviceNet Card	XSCI-DEN-121	*
xS1000 & xS2000 USB Interface Card	XSCI-USB-121	*
xS1000 & xS2000 Operator interface Card	XSOP-DOC-100	*
xS1000 & xS2000 Digital Operator Kit	XSOP-DOK-100	*
xS3000 and xS4000 Modbus RTU Card	XSCI-RTU-341	*
xS3000 and xS4000 Modbus RTU + GF Card	XSCI-RTU-342	*
xS3000 and xS4000 Modbus TCP + GF Card	XSCI-TCP-343	*
xS3000 and xS4000 Profibus Card	XSCI-PDP-341	*
xS3000 and xS4000 Profinet + GF Card	XSCI-PFN-343	*
xS3000 and xS4000 Ethernet + GF Card	XSCI-ETH-343	*
xS3000 and xS4000 DeviceNet Card	XSCI-DEN-341	*
xS3000 and xS4000 Operator & Cable	XSOP-DOP-200	*
xS3000 and xS4000 Operator Interface Card	XSOP-DOC-200	*
xS3000 and xS4000 Digital Operator Kit	XSOP-DOK-200	*
xS3000 and xS4000 Pumping Smart Card	XSSC-PSC-341	*

**Note:**

\* For prices please contact nearest branch office  
Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.





## xP1000 PLC Features:

### Main CPU

**xP1000-MM1DR16AA11**

- › 8 Digital Inputs
- › 24 V DC Power Supply
- › 8 Digital Outputs (Relay Output) 5 A (Res.) @ 230 VAC / 30 VDC
- › 2 Serial Communication Ports (COM1 - RS232/RS485, COM2 - RS485)
- › 256KB User Program Memory, 8KB User Data Memory.
- › Operating Temperature : 0°C to 55°C, Storage Temperature: - 40°C to 70°C

### Expansion Modules:

**Digital I/Os : xPEXPN-ME4DR16AA11**

- › Extension with 8 Digital Inputs and 8 Relay Outputs, Relay Load 5 A (Res.) @ 230 VAC / 30 VDC
- › 24 V DC Power Supply

**Analog Inputs : xPEXPN-ME2AX04AA11**

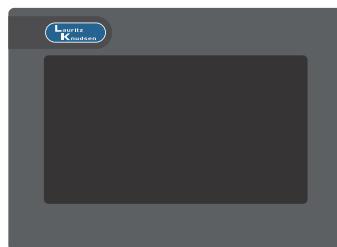
- › Extension with 4 Analog Inputs (0-10V / 4-20mA)
- › 24 V DC Power Supply

**Analog Outputs: xPEXPN-ME3AY02AA11**

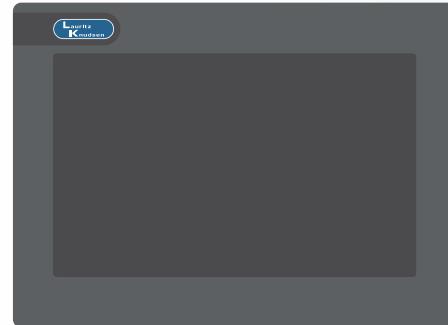
- › Extension with 2 Analog Outputs (0-10V / 4-20mA)
- › 24 V DC Power Supply



4.3 inch



7 inch



10.1 inch

## xT1000 HMI Features:

### HMI Size

4.3", 7" & 10.1" with colour TFT display options with & without Ethernet model

### Touch Screen

Higher brightness level up to 440 cd/m<sup>2</sup> & long backlight life up to 50000 hours for display

### Protection

Shock & Vibration protection as per IEC Standard

### CPU

Equipped with powerful CPU Cortex-M7 (600MHz)

### Data Logging

Equipped with powerful CPU Cortex-M7 (600MHz)

### Operating Temperature

Operation temperature range: 0 to 50 °C

### Memory

RAM - 32 MB for all Models

### Password Management

User access levels & application password management

### Safety Standards

CE, RoHS Compliant, IP 65 protection for front panel with Class 2 Pollution Degree.

### Memory

ROM - 32 MB for Serial models & 64 MB for with Ethernet model, ROM Expandable up to 4 GB via USB Stick/SD card

### Picture Library

Inbuilt picture library with high resolution images



## Programmable Logic Controller (PLC) [8537/8538]

### xP Series



- › AC / DC power supply
- › Supports Upto 196 IOs, Relay and transistor outputs
- › Flexible I/Os, 2 cartridges, and up to 4 expansions
- › Ethernet and Serial line ports
- › Micro-SD card slot and USB port
- › 2 High speed counters, 2@100KHz
- › 2 Pulse Outputs at 100kHz\*2

	Category	Description	Cat. No.	M.R.P. (₹) Per Unit
CPU	xP3000	xP1000 CPU, 8 DI, 8 RO, 2 Serial Port	xP1000-MM1DR16AA11	*
		xP3000, CPU, AC220, 09DI, 07DO RY	xP3000-M1DR16AA11	*
		xP3000, CPU, AC220, 14DI, 10DO RY	xP3000-M1DR24AA11	*
		xP3000, CPU, AC220, 20DI, 12DO RY	xP3000-M1DR32AA11	*
		xP3000, CPU, AC220, 24DI, 16DO RY	xP3000-M1DR40AA11	*
	xP5000	xP5000, CPU, AC220, 09DI, 07DO RY	xP5000-M1DR16AA11	*
		xP5000, CPU, DC24, 09DI, 07DO TN	xP5000-M1DU16AA11	*
		xP5000, CPU, DC24, 09DI, 07DO TP	xP5000-M1DT16AA11	*
		xP5000, CPU, AC220, 14DI, 10DO RY	xP5000-M1DR24AA11	*
		xP5000, CPU, DC24, 14DI, 10DO TN	xP5000-M1DU24AA11	*
		xP5000, CPU, DC24, 14DI, 10DO TP	xP5000-M1DT24AA11	*
		xP5000, CPU, AC220, 14DI, 10DO RY, Eth	xP5000-M1DR24EA11	*
		xP5000, CPU, DC24, 14DI, 10DO TN, Eth.	xP5000-M1DU24EA11	*
		xP5000, CPU, DC24, 14DI, 10DO TP, Eth	xP5000-M1DT24EA11	*
		xP5000, CPU, AC220, 20DI, 12DO RY	xP5000-M1DR32AA11	*
		xP5000, CPU, DC24, 20DI, 12DO TN	xP5000-M1DU32AA11	*
		xP5000, CPU, DC24, 20DI, 12DO TP	xP5000-M1DT32AA11	*
		xP5000, CPU, AC220, 20DI, 12DO RY, Eth	xP5000-M1DR32EA11	*
		xP5000, CPU, AC220, 24DI, 16DO RY,	xP5000-M1DR40AA11	*
		xP5000, CPU, DC24, 24DI, 16DO TN	xP5000-M1DU40AA11	*
		xP5000, CPU, DC24, 24DI, 16DO TP	xP5000-M1DT40AA11	*
		xP5000, CPU, AC220, 24DI, 16DO RY, Eth	xP5000-M1DR40EA11	*
		xP5000, CPU, DC24, 24DI, 16DO TN, Eth.	xP5000-M1DU40EA11	*
		xP5000, CPU, DC24, 24DI, 16DO TP, Eth	xP5000-M1DT40EA11	*
		xP5000, CPU, AC220, 36DI, 24DO RY	xP5000-M1DR60AA11	*
		xP5000, CPU, AC220, 36DI, 24DO RY, 1 Eth	xP5000-M1DR60EA11	*

Note: \* For prices please contact nearest branch office

## Human Machine Interface (HMI) [8537]

### xT Series

- › Wide Range upto 15" in size
- › Application Memory: FLASH EPROM / Screen area: 64MB/User font area 8 MB / Logic program area: 132KB
- › Backup Memory: Screen Area: SRAM 320KB, Variable Area: SRAM 64KB
- › Various Communication Interface: Ethernet /RS-232C / RS-422/485
- › USB host and device
- › SD memory card interface
- › Certificates: CE, RoHS



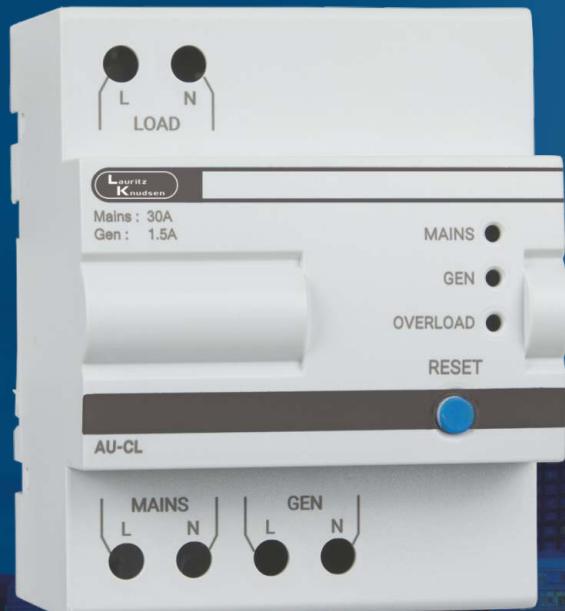
	Category	Description	Cat. No.	M.R.P. (₹) Per Unit
HMI	xT1000	xT1000 series, 4" TFT, Serial,2 Port	xT1000-E104SDAAA1	*
		xT1000 series, 4" TFT, Serial,2 Port, 1 Eth Port	xT1000-E104EDAAA1	*
		xT1000 series, 7" TFT, Serial,2 Port	xT1000-E107SDAAA1	*
		xT1000 series, 7" TFT, Serial,2 Port, 1 Eth Port	xT1000-E107EDAAA1	*
		xT1000 series, 10" TFT, Serial,2 Port	xT1000-E110SDAAA1	*
		xT1000 series, 10" TFT, Serial,2 Port, 1 Eth Port	xT1000-E110EDAAA1	*
xTE6000	xTE6000	xTE6000 Series 7" HMI, DC 24V, Eth.	xTE6000-07EDAA1	*
		xTE6000 Series 10" HMI, DC 24V, Eth.	xTE6000-10EDAA1	*
		xTE6000 Series 12" HMI, DC 24V, Eth.	xTE6000-12EDAA1	*
		xTE6000 Series 15" HMI, DC 24V, Eth.	xTE6000-15EDAA1	*
xTS6000	xTS6000	xTS6000 Series 04" Advance HMI, DC 24V, Eth.	xTS6000-04EDAA1	*
		xTS6000 Series 07" Advance HMI, DC 24V, Eth.	xTS6000-07EDAA1	*
		xTS6000 Series 10" Advance HMI, DC 24V, Eth.	xTS6000-10EDAA1	*
		xTS6000 Series 12" Advance HMI, DC 24V, Eth.	xTS6000-12EDAA1	*
		xTS6000 Series 15" Advance HMI, DC 24V, Eth.	xTS6000-15EDAA1	*

Note: \* For prices please contact nearest branch office



# *Experience the robust performance of our ACCL*

## Single Phase ACCL



Mains rating : 30A

Genset rating : 1A to 30A

## Three Phase ACCL With MCX contactors inside

Range : 32A to 125A



Settable overload current limit at DG side



Separate power consumption monitoring for Mains & Genset



Settable TPN / SPN mode for three phase and single phase DG supply



To Experience Scan or Click



# Miniature Circuit Breaker (MCB) [8536]

## Range Highlights

- › True contact indication for individual pole
- › Label holder facility for all configurations
- › Conforms to IS/IEC 60898 - 10kA
- › Conforms to IS/IEC 60947 - 2
  - » 15kA C-curve till 40 A
  - » 10kA C-curve for 50A, 63A
- › Available in B, C & D curves
- › Low watt loss - almost 50% of the values prescribed by IS/IEC 60898
- › Trip free mechanism
- › Design based on advanced current limiting hammer trip mechanism
- › No Line-Load bias
- › Bi connect feature on both sides
- › Suitable for accessory fitment

Rating	Modules 1 Mod = 17.5 mm	B-Curve Cat. No.	M.R.P. (₹) Per Unit	C-Curve Cat. No.	M.R.P. (₹) Per Unit	D-Curve Cat. No.	M.R.P. (₹) Per Unit
<b>Single Pole (SP)</b>							
0.5A	1	-	-	BB10E50C	500	BB10E50D	510
1A	1	-	-	BB10010C	500	BB10010D	510
2A	1	-	-	BB10020C	500	BB10020D	510
3A	1	-	-	BB10030C	500	BB10030D	510
4A	1	-	-	BB10040C	500	BB10040D	510
6A	1	BB10060B	294	BB10060C	294	BB10060D	425
10A	1	BB10100B	294	BB10100C	294	BB10100D	425
16A	1	BB10160B	294	BB10160C	294	BB10160D	425
20A	1	BB10200B	294	BB10200C	294	BB10200D	425
25A	1	BB10250B	294	BB10250C	294	BB10250D	425
32A	1	BB10320B	294	BB10320C	294	BB10320D	425
40A	1	BB10400B	700	BB10400C	700	BB10400D	765
50A	1	BB10500B	700	BB10500C	700	BB10500D*	765
63A	1	BB10630B	700	BB10630C	700	BB10630D*	765
<b>Double Pole (DP)</b>							
0.5A	2	-	-	BB20E50C	1410	BB20E50D	1430
1A	2	-	-	BB20010C	1410	BB20010D	1430
2A	2	-	-	BB20020C	1410	BB20020D	1430
3A	2	-	-	BB20030C	1410	BB20030D	1430
4A	2	-	-	BB20040C	1410	BB20040D	1430
6A	2	BB20060B	1000	BB20060C	1000	BB20060D	1040
10A	2	BB20100B	1000	BB20100C	1000	BB20100D	1040
16A	2	BB20160B	1000	BB20160C	1000	BB20160D	1040
20A	2	BB20200B	1000	BB20200C	1000	BB20200D	1040
25A	2	BB20250B	1000	BB20250C	1000	BB20250D	1040
32A	2	BB20320B	1000	BB20320C	1000	BB20320D	1040
40A	2	BB20400B	1630	BB20400C	1630	BB20400D	1700
50A	2	BB20500B	1630	BB20500C	1630	BB20500D*	1700
63A	2	BB20630B	1630	BB20630C	1630	BB20630D*	1700
<b>Three Pole (TP)</b>							
0.5A	3	-	-	BB30E50C	2050	BB30E50D	2080
1A	3	-	-	BB30010C	2050	BB30010D	2080
2A	3	-	-	BB30020C	2050	BB30020D	2080
3A	3	-	-	BB30030C	2050	BB30030D	2080
4A	3	-	-	BB30040C	2050	BB30040D	2080
6A	3	BB30060B	1575	BB30060C	1575	BB30060D	1660
10A	3	BB30100B	1575	BB30100C	1575	BB30100D	1660
16A	3	BB30160B	1575	BB30160C	1575	BB30160D	1660
20A	3	BB30200B	1575	BB30200C	1575	BB30200D	1660
25A	3	BB30250B	1575	BB30250C	1575	BB30250D	1660
32A	3	BB30320B	1575	BB30320C	1575	BB30320D	1660
40A	3	BB30400B	2455	BB30400C	2455	BB30400D	2570
50A	3	BB30500B	2455	BB30500C	2455	BB30500D*	2570
63A	3	BB30630B	2455	BB30630C	2455	BB30630D*	2570

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.

\*For details, please contact nearest branch office



## Miniature Circuit Breaker (MCB) [8536]



Rating	Modules 1 Mod = 17.5 mm	B-Curve Cat. No.	M.R.P. (₹) Per Unit	C-Curve Cat. No.	M.R.P. (₹) Per Unit	D-Curve Cat. No.	M.R.P. (₹) Per Unit
<b>Four Pole (FP)</b>							
0.5A	4	-	-	BB40E50C	2580	BB40E50D	2585
1A	4	-	-	BB40010C	2580	BB40010D	2585
2A	4	-	-	BB40020C	2580	BB40020D	2585
3A	4	-	-	BB40030C	2580	BB40030D	2585
4A	4	-	-	BB40040C	2580	BB40040D	2585
6A	4	BB40060B	2180	BB40060C	2180	BB40060D	2235
10A	4	BB40100B	2180	BB40100C	2180	BB40100D	2235
16A	4	BB40160B	2180	BB40160C	2180	BB40160D	2235
20A	4	BB40200B	2180	BB40200C	2180	BB40200D	2235
25A	4	BB40250B	2180	BB40250C	2180	BB40250D	2235
32A	4	BB40320B	2180	BB40320C	2180	BB40320D	2235
40A	4	BB40400B	3060	BB40400C	3060	BB40400D	3310
50A	4	BB40500B	3060	BB40500C	3060	BB40500D*	3310
63A	4	BB40630B	3060	BB40630C	3060	BB40630D*	3310

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.

\*For details, please contact nearest branch office

## MCBs (Miniature Circuit Breakers) : 80A-125A [8536]

### Range Highlights

- › Short circuit Breaking Capacity - 15kA (IS/IEC 60947-2, EN 60947-2)
- › C & D Characteristics
- › Available in SP, DP, TP and FP
- › Suitable for Isolation
- › Protection Degree - IP 20
- › Availability of wide Range of Site Mountable Accessories



Rating	Modules 1 Mod = 17.5 mm	C Curve Cat. No.	M.R.P. (₹) Per Unit	D Curve Cat. No.	M.R.P. (₹) Per Unit
<b>Single Pole (SP)</b>					
80A	1.5	AU15S10803C	2940	AU15S10803D	3345
100A	1.5	AU15S11003C	3295	AU15S11003D	3745
125A	1.5	AU15S11253C	3545	AU15S11253D	4045
<b>Double Pole (DP)</b>					
80A	3	AU15S20803C	6515	AU15S20803D	7415
100A	3	AU15S21003C	6950	AU15S21003D	7905
125A	3	AU15S21253C	7650	AU15S21253D	8695
<b>Three Pole (TP)</b>					
80A	4.5	AU15S30803C	10280	AU15S30803D	11705
100A	4.5	AU15S31003C	10965	AU15S31003D	12460
125A	4.5	AU15S31253C	12165	AU15S31253D	13825
<b>Four Pole (FP)</b>					
80A	6	AU15S40803C	13425	AU15S40803D	15245
100A	6	AU15S41003C	13965	AU15S41003D	15890
125A	6	AU15S41253C	15815	AU15S41253D	17975

**CERTIFIED TO LEAD,  
TRUSTED FOR SAFETY.**

BIS-Certified HR MCBs Range - 80A, 100A & 125A



## Solar Combo MCBs [8536]

(AC MCB + DC MCB)



AC MCB<sup>A</sup> with C-Curve

Description	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
1 AC 16A DP MCB <sup>A</sup> + 1 DC 16A DP 500V MCB	2+2	SC221616	1805
New! 1 AC 20A DP MCB <sup>A</sup> + 1 DC 25A DP 500V MCB	2+2	SC222020	1805
New! 1 AC 20A DP MCB <sup>A</sup> + 1 DC 20A DP 500V MCB	2+2	SC222025	1805
New! 1 AC 20A DP MCB <sup>A</sup> + 1 DC 32A DP 500V MCB	2+2	SC222032	1805
1 AC 25A DP MCB <sup>A</sup> + 1 DC 16A DP 500V MCB	2+2	SC222516	1805
New! 1 AC 25A DP MCB <sup>A</sup> + 1 DC 25A DP 500V MCB	2+2	SC222525	1805
1 AC 32A DP MCB <sup>A</sup> + 1 DC 16A DP 500V MCB	2+2	SC223216	1805
New! 1 AC 32A DP MCB <sup>A</sup> + 1 DC 25A DP 500V MCB	2+2	SC223225	1805
1 AC 32A DP MCB <sup>A</sup> + 1 DC 32A DP 500V MCB	2+2	SC223232	1805

# Double the Protection, Twice the Power!

## Complete Protection for Solar Rooftop Installations

**DC MCB:**  
**10kA as per IEC 60947-2**

**AC MCB:**  
**10kA as per IS/IEC 60898-1**



## Miniature Circuit Breaker (MCB) [8536]

### DC MCBs as per IEC 60947-2 [8536]

Rated Voltage:

Breaking capacity of 6 kA - BB Series DC MCBs

#### 130V DC SP MCB



Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)			
0.5A	1	BB10E5DC	700
1A	1	BB1001DC	700
2A	1	BB1002DC	700
3A	1	BB1003DC	700
4A	1	BB1004DC	700
6A	1	BB1006DC	605
10A	1	BB1010DC	605
16A	1	BB1016DC	605
20A	1	BB1020DC	605
25A	1	BB1025DC	605
32A	1	BB1032DC	605
40A	1	BB1040DC	795
50A	1	BB1050DC	795
63A	1	BB1063DC	795

Rated Voltage:

Breaking capacity of BJ Series DC MCBs

» 10kA till 40 A

» 6kA for 50A, 63A

#### 250V DC SP MCB

Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)			
0.5A	1	BJ10E5DC	850
1A	1	BJ1001DC	850
2A	1	BJ1002DC	850
3A	1	BJ1003DC	850
4A	1	BJ1004DC	850
6A	1	BJ1006DC	695
10A	1	BJ1010DC	695
16A	1	BJ1016DC	695
20A	1	BJ1020DC	695
25A	1	BJ1025DC	695
32A	1	BJ1032DC	695
40A	1	BJ1040DC	960
50A	1	BJ1050DC	960
63A	1	BJ1063DC	960

New

#### 250V DC DP MCB



Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
0.5A	2	BB20E5DC	1495
1A	2	BB2001DC	1495
2A	2	BB2002DC	1495
3A	2	BB2003DC	1495
4A	2	BB2004DC	1495
6A	2	BB2006DC	1315
10A	2	BB2010DC	1315
16A	2	BB2016DC	1315
20A	2	BB2020DC	1315
25A	2	BB2025DC	1315
32A	2	BB2032DC	1315
40A	2	BB2040DC	1780
50A	2	BB2050DC	1780
63A	2	BB2063DC	1780

#### 500V DC DP MCB

Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
0.5A	2	BJ20E5DC	1775
1A	2	BJ2001DC	1775
2A	2	BJ2002DC	1775
3A	2	BJ2003DC	1775
4A	2	BJ2004DC	1775
6A	2	BJ2006DC	1500
10A	2	BJ2010DC	1500
16A	2	BJ2016DC	1500
20A	2	BJ2020DC	1500
25A	2	BJ2025DC	1500
32A	2	BJ2032DC	1500
40A	2	BJ2040DC	1910
50A	2	BJ2050DC	1910
63A	2	BJ2063DC	1910

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos.

### 1000V DC MCBs [8536]

Rated Voltage: 1000V DC

with breaking capacity of 6 kA - BK Series DC MCBs

New



Description	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
DP 6A 1000V DC 6kA MCB	4	BK2006DC	2355
DP 10A 1000V DC 6kA MCB	4	BK2010DC	2355
DP 16A 1000V DC 6kA MCB	4	BK2016DC	2355
DP 20A 1000V DC 6kA MCB	4	BK2020DC	2355
DP 25A 1000V DC 6kA MCB	4	BK2025DC	2355
DP 32A 1000V DC 6kA MCB	4	BK2032DC	2355
DP 40A 1000V DC 6kA MCB	4	BK2040DC	2860
DP 50A 1000V DC 6kA MCB	4	BK2050DC	2860
DP 63A 1000V DC 6kA MCB	4	BK2063DC	2860



## Isolators [8536]



### Range Highlights

- Conforms to IEC 60947-3
- Utilization category AC-22A
- Available in DP, TP and FP versions in 40A, 63A, 80A & 100A ratings

Rating	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
<b>Double Pole (DP)</b>					<b>Three Pole (TP)</b>		<b>Four Pole (FP)</b>		
40A	2	BF204000	625	3	BF304000	1090	4	BF404000	1410
63A	2	BF206300	805	3	BF306300	1270	4	BF406300	1475
80A	2	BF208000	1030	3	BF308000	1395	4	BF408000	1655
100A	2	BF210000	1070	3	BF310000	1485	4	BF410000	1785

Note: Standard Pack Quantity for Isolator : DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.

## RCCB (Residual Current Circuit Breaker) [8536]

### Range Highlights

- Conforms to IS 12640 (Part 1) / IEC 61008-1
- RCCBs are available in DP and FP versions from 25 to 100A ratings with 30 mA, 100 mA and 300mA sensitivity

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
<b>Double Pole (DP)</b>				
25A	30 mA	2	BG202503	3380
	100 mA	2	BG202510	3585
	300 mA	2	BG202530	3585
40A	30 mA	2	BG204003	3795
	100 mA	2	BG204010	4100
	300 mA	2	BG204030	4100
63A	30 mA	2	BG206303	4735
	100 mA	2	BG206310	4945
	300 mA	2	BG206330	4945
100A	30 mA	2	BG210003	8425
	100 mA	2	BG210010	8530
	300 mA	2	BG210030	8530



- Truly current operated - operation even at nominal Voltage
- Operates on Core Balance Current Transformer (CBCT) principle
- Advanced neutral mechanism

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
<b>Four Pole (FP)</b>				
25A	30 mA	4	BG402503	4425
	100 mA	4	BG402510	4635
	300 mA	4	BG402530	4635
40A	30 mA	4	BG404003	4470
	100 mA	4	BG404010	4710
	300 mA	4	BG404030	4710
63A	30 mA	4	BG406303	5055
	100 mA	4	BG406310	5405
	300 mA	4	BG406330	5405
100A	30 mA	4	BG410003	8725
	100 mA	4	BG410010	9050
	300 mA	4	BG410030	9050

## RCCBs (Residual Current Circuit Breakers) : Type-Adi (with Added immunity) [8536]



### Range Highlights

- Wide Range of Current Ratings - 25A to 100A
- Precise Sensitivities for variety of applications - from 30mA to 300mA
- 2P & 4P versions
- Suitable for Isolation
- Protection Degree - IP 20
- Availability of wide Range of Site Mountable Accessories
- Type Adi: Suitable for AC + Pulsating DC (Type A) + Harmonics

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
<b>2P Adi</b>				
25A	30mA	2	AURAD202503	5815
	100mA	2	AURAD202510	6080
	300mA	2	AURAD202530	6080
40A	30mA	2	AURAD204003	6170
	100mA	2	AURAD204010	6270
	300mA	2	AURAD204030	6270
63A	30mA	2	AURAD206303	7220
	100mA	2	AURAD206310	7355
	300mA	2	AURAD206330	7355
100A	30mA	2	AURAD210003	10665

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
<b>4P Adi</b>				
25A	30mA	4	AURAD402503	7030
	100mA	4	AURAD402510	7165
	300mA	4	AURAD402530	7165
40A	30mA	4	AURAD404003	7300
	100mA	4	AURAD404010	7415
	300mA	4	AURAD404030	7415
63A	30mA	4	AURAD406303	7950
	100mA	4	AURAD406310	8115
	300mA	4	AURAD406330	8115
100A	30mA	4	AURAD410003	12665
	300mA	4	AURAD410030	12665

# All-Rounder RCDs (RCCB & RCBO)

Specially designed Adi RCDs ensure Safe and Reliable protection for All Applications in AC networks with Pulsating DC along with Harmonics

Type A



Added Immunity



# RCBOs (Residual Current Breaker with Overcurrent Protection) [8536]

## Range Highlights\*

- Conforms to IEC 61009-1, IS 12640-2, EN 61009-1
- Short circuit Breaking Capacity - 10kA
- Precise Sensitivities for a variety of applications
  - from 10mA to 300mA
- Suitable for Isolation



- Availability of wide Range of Site Mountable Accessories
- Available in
  - Type AC: For standard AC installations
  - Type Adi: Suitable for AC + Pulsating DC (Type A) + Harmonics

## Type-AC

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
<b>2P AC<sup>#</sup></b>				
6A	10mA	2	AUF3C200601	5405
	30mA	2	AUF3C200603	5405
	100mA	2	AUF3C200610	5515
	300mA	2	AUF3C200630	5580
10A	10mA	2	AUF3C201001	5405
	30mA	2	AUF3C201003	5405
	100mA	2	AUF3C201010	5515
	300mA	2	AUF3C201030	5580
16A	10mA	2	AUF3C201601	5405
	30mA	2	AUF3C201603	5405
	100mA	2	AUF3C201610	5515
	300mA	2	AUF3C201630	5580
20A	30mA	2	AUF3C202003	5405
	100mA	2	AUF3C202010	5515
	300mA	2	AUF3C202030	5580
25A	30mA	2	AUF3C202503	5405
	100mA	2	AUF3C202510	5515
	300mA	2	AUF3C202530	5580
32A	30mA	2	AUF3C203203	5405
	100mA	2	AUF3C203210	5515
	300mA	2	AUF3C203230	5580
40A	30mA	2	AUF3C204003	5405
	100mA	2	AUF3C204010	5515
	300mA	2	AUF3C204030	5580
63A	30mA	4	AUF3C206303	6415
	100mA	4	AUF3C206310	6805
	300mA	4	AUF3C206330	6860
<b>4P AC</b>				
16A	30mA	7.5	AUF3C401603	5800
	100mA	7.5	AUF3C401610	6460
	300mA	7.5	AUF3C401630	6590
20A	30mA	7.5	AUF3C402003	5800
	100mA	7.5	AUF3C402010	6460
	300mA	7.5	AUF3C402030	6590
25A	30mA	7.5	AUF3C402503	5800
	100mA	7.5	AUF3C402510	6460
	300mA	7.5	AUF3C402530	6590
32A	30mA	7.5	AUF3C403203	5990
	100mA	7.5	AUF3C403210	6465
	300mA	7.5	AUF3C403230	6605
40A	30mA	7.5	AUF3C404003	6085
	100mA	7.5	AUF3C404010	6465
	300mA	7.5	AUF3C404030	6625
63A	30mA	7.5	AUF3C406303	7290
	100mA	7.5	AUF3C406310	7425
	300mA	7.5	AUF3C406330	7425
80A	30mA	12	AUF3C408003	27740
	100mA	12	AUF3C408010	28360
	300mA	12	AUF3C408030	28360
100A	30mA	12	AUF3C410003	29655
	100mA	12	AUF3C410010	30365
	300mA	12	AUF3C410030	30365

\*For 2P AC D Curve RCBO, please contact nearest branch office

## Type-Adi

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
<b>2P Adi</b>				
6A	30mA	2	AUF3D200603	7160
	100mA	2	AUF3D200610	7885
	300mA	2	AUF3D200630	8180
	30mA	2	AUF3D201003	7160
10A	100mA	2	AUF3D201010	7885
	300mA	2	AUF3D201030	8180
	30mA	2	AUF3D201603	7160
	100mA	2	AUF3D201610	7885
16A	300mA	2	AUF3D201630	8180
	30mA	2	AUF3D202003	7160
	100mA	2	AUF3D202010	7885
	300mA	2	AUF3D202030	8180
20A	30mA	2	AUF3D202503	7160
	100mA	2	AUF3D202510	7885
	300mA	2	AUF3D202530	8180
	30mA	2	AUF3D203203	7160
32A	100mA	2	AUF3D203210	7885
	300mA	2	AUF3D203230	8180
	30mA	2	AUF3D204003	7160
	100mA	2	AUF3D204010	7885
40A	300mA	2	AUF3D204030	8180
	30mA	4	AUF3D206303	8280
	100mA	4	AUF3D206310	8760
	300mA	4	AUF3D206330	8835
<b>4P Adi</b>				
16A	30mA	7.5	AUF3D401603	7480
	100mA	7.5	AUF3D401610	8320
	300mA	7.5	AUF3D401630	8490
	30mA	7.5	AUF3D402003	7480
20A	100mA	7.5	AUF3D402010	8320
	300mA	7.5	AUF3D402030	8490
	30mA	7.5	AUF3D402503	7480
	100mA	7.5	AUF3D402510	8320
25A	300mA	7.5	AUF3D402530	8490
	30mA	7.5	AUF3D403203	7720
	100mA	7.5	AUF3D403210	8325
	300mA	7.5	AUF3D403230	8500
32A	30mA	7.5	AUF3D404003	7835
	100mA	7.5	AUF3D404010	8325
	300mA	7.5	AUF3D404030	8535
	30mA	7.5	AUF3D406303	9390
40A	100mA	7.5	AUF3D406310	9580
	300mA	7.5	AUF3D406330	9580
	30mA	12	AUF3D408003	27740
	100mA	12	AUF3D408010	28360
80A	300mA	12	AUF3D408030	28360
	30mA	12	AUF3D410003	29655
	100mA	12	AUF3D410010	30365
	300mA	12	AUF3D410030	30365

\*For technical details, please contact nearest branch office



## SPDs (Surge Protection Devices) [8536]



### Range Highlights

- › Conforms to IEC 61643-11
- › Available in Type 2 and Type 1+2
- › Type 2 : Protection against indirect lightning and switching surges
  - » Maximum Discharge Current - Imax up to 70kA
- › Type 1+2 : Protection against direct and indirect lightning surges
  - » Maximum Discharge Current - Imax up to 100kA

New

### 440V Application (Common + Differential Mode)

Description	I <sub>max</sub>	Configuration	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Type 1+2, I <sub>imp</sub> 12.5kA	50kA	1P+N	2	AUSP121PN50D	11070
		3P+N	4	AUSP123PN50D	21205
Type 2	40kA	1P+N	1	AUSP021PN40D	6920
		3P+N	2	AUSP023PN40D	13830
Type 2	15kA	1P+N	1	AUSP021PN15D	5535
		3P+N	2	AUSP023PN15D	10890
Type 1+2, I <sub>imp</sub> 8kA	100kA	1P+N	2	AUSP121PN100D	9955
		3P+N	4	AUSP123PN100D	19555
Type 2	70kA	1P+N	2	AUSP021PN70D	10870
		3P+N	4	AUSP023PN70D	18100

### 800V Solar Application

Description	Configuration	Modules 1 Mod = 17.5 mm	Voltage (Uc)	Cat. No.	M.R.P. (₹) Per Unit
Type 2, I <sub>max</sub> 40kA	3P	4	1500	AUSP023P40-1500	12500
Type 1+2, I <sub>imp</sub> 12.5kA	3P	5	1360	AUSP123P50-1360	41430
Type 1+2, I <sub>imp</sub> 12.5kA	3P	4	880	AUSP123P50-880	30000

### SPD Cartridges

Description	Cat. No.	M.R.P. (₹) Per Unit
Cartridge for AUSP021PN15D	AUSC021PN15D	2720
Cartridge for AUSP021PN40D	AUSC021PN40D	3390
Cartridge for AUSP021PN70D / AUSP023PN70D	AUSC021PN70D	3625
Cartridge for AUSP023PN15D <sup>#</sup>	AUSC023PN15D	3560
Cartridge for AUSP023PN40D <sup>#</sup>	AUSC023PN40D	4525
Cartridge for AUSP121PN100D / AUSP123PN100D	AUSC121PN100D	5430
Cartridge for AUSP121PN50D / AUSP123PN50D	AUSC121PN50D	5860
Cartridge for AUSP023PN15D <sup>#</sup>	AUSC023PN15DG	4125
Cartridge for AUSP023PN40D <sup>#</sup>	AUSC023PN40DG	4305

<sup>#</sup>For technical details, please contact nearest branch office

## ACCL (Automatic Changeover with Current Limiter) [8536]

### Single Phase ACCL



#### Range Highlights

- › Conforms to IEC 60947-6, IEC 60947-3
- › Wide Range of Current Ratings
  - » (Generator side) - 1A to 30A
  - » (Electricity Board side) - 30A
- › RoHS compliant

Description EB/DG	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
30A/1A	4	AUCL01030001	2505
30A/1.5A	4	AUCL010301E5	2505
30A/2A	4	AUCL01030002	2505
30A/2.5A	4	AUCL010302E5	2505
30A/3A	4	AUCL01030003	2505
30A/4A	4	AUCL01030004	2505
30A/5A	4	AUCL01030005	2505
30A/6A	4	AUCL01030006	2505
30A/8A	4	AUCL01030008	2505
30A/10A	4	AUCL01030010	2505
30A/12A	4	AUCL01030012	2505
30A/15A	4	AUCL01030015	2505
30A/20A	4	AUCL01030020	2505
30A/30A	4	AUCL01030030*	2505

\*Non-current limiting variant

### Three Phase ACCL



#### Range Highlights

- › Settable overload current limit at DG side
- › Separate power consumption monitoring for Mains & Genset
- › Settable overvoltage & undervoltage protection
- › Settable TPN or SPN mode at DG side
- › Protection against single phasing

Description (AC-1) EB/DG	Cat. No.	M.R.P. (₹) Per Unit
32A / 32A	AUCL03032032	12295
40A / 32A	AUCL03040032	12670
40A / 40A	AUCL03040040	13715
50A / 50A	AUCL03050050	19545
63A / 50A	AUCL03063050	21570
63A / 63A	AUCL03063063	24430
80A / 80A	AUCL03080080	37235
125A / 125A	AUCL03125125	62680

For 3 Phase ACCL programming video  
please scan the QR code or click here



## Changeover Switches [8536]



### Range Highlights

- › Conforms to IEC 60947-3 and IS/IEC 60947-3
- › Available in 3 positions (I-O-II) with centre off position
- › Utilization category AC-22A

Rating	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
<b>Double Pole</b>			
25A	2	AUC00202500	1795
40A	2	AUC00204000	2745
63A	3	AUC00206300	3195
<b>Four Pole</b>			
40A	4	AUC00404000	4730
63A	6	AUC00406300	5365

## Accessories

### Accessories [8538]



All Half Module and One Module Accessories are common for 80A-125A MCBs, RCBOs and Adi RCCBs

Description	Configuration	Modules 1 Mod = 17.5 mm	Voltage	CAT Nos.	M.R.P. (₹) Per Unit
Auxiliary Contact	1NO+1NC	0.5	240V AC, 24V DC	AUAXAC240	1055
AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	AUATAC240	1240
HR AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	AUATAC240HR	1240
Undervoltage Release	-	1	240V AC	AUUVAC240	2500
Overvoltage Release	-	1	240V AC	AUOVAC240	3090
Shunt Release	-	1	240V AC	AUSRAC240	2865
Shunt Release	-	1	24V DC	AUSRDC024	2865
Padlock-Suitable for Lock Hasp 3.5 - 5 mm dia. max	Suitable for 1Pole=1Mod devices: RCCBs, RCBOs, Changeover Switches up to 40A			AUPD01	565
Padlock-Suitable for Lock Hasp 3.5 - 5 mm dia. max	Suitable for 1Pole-1.5Mod devices: MCBs 80A-125A, Changeover Switch 63A			AUPD02	640

Note: Standard Pack Quantity for Padlock - 2 Nos.

\*For 80A-125A MCBs please contact nearest branch office

## Control & Monitoring Devices

### Modular Contactors [8536]



#### Range Highlights

- › Wide Range of Current Ratings:
  - » 25A, 40A and 63A
- › Conforms to :
  - » IEC 61095, EN 61095
  - » IEC 60947-4-1, EN 60947-4-1
  - » IEC 60947-5-1
- › Protection Degree IP 20

Description (AC-1)	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
25A-1NO	1	AUMC1002501	2015
25A-2NO	1	AUMC2002501	2525
40A-2NO	3	AUMC2004003	4320
40A-3NO	3	AUMC3004003	6190
40A-4NO	3	AUMC4004003	7260
63A-2NO+2NC	3	AUMC2206303	7675
63A-3NO	3	AUMC3006303	7865
63A-4NO	3	AUMC4006303	8660

#### Accessory [8538]

Auxiliary Contact, 2NO	0.5	AUMCAUX240	1880
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### Energy Meters [9030]



#### Range Highlights

- › DIN mounting whole current operated meter
- › Accuracy Class 1.0
- › Inbuilt RS485 option
- › Parameters : Voltage, Current, kW, kWh, kVA, kVAh, RPM, Load hours, Interruptions

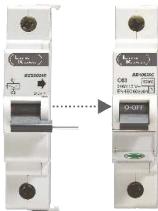
Description	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Single Phase - 60A	2	WD4010100000	3100
Three Phase - 80A	5	WD4020100000	6715
Single Phase - 60A (RS485)	2	WD4010110000	4585
Three Phase - 80A (RS485)	5	WD4020110000	10130

### Indicating Lights [8531]



Description	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
RED	1	AUIL01RED00	1160
YELLOW	1	AUIL01YEL00	1160
BLUE	1	AUIL01BLU00	1160
GREEN	1	AUIL01GRE00	1160
RED-YELLOW-BLUE	1	AUIL01RYB00	1410

## Auxiliary & Accessories for Exora MCBs [8538]



Description	Cat. No.	M.R.P. (₹) Per Unit
Auxiliary Contact - 6A , 240V AC, (1NO+1NC), 0.5 Mod	BZA11006	985
Shunt Release - 240V AC, 1 Mod	BZS00240	2700
Trip Alarm Contact - 6A, 240V AC, (1NO+1NC), 0.5 Mod	BZT11006	1155



## Plugs



### Highlights

- › Conforms to IEC 60309 -1&2
- › Mechanical Impact - IK08
- › Ingress Protection - IP44 & IP67
- › Fire Resistance - 850°C as per IEC 60695-2-11
- › Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
<b>Plug - IP44</b>		
16A, 2P+E	PSKPM30164	610
32A, 2P+E	PSKPM30324	960
16A, 3P+E	PSKPM40164	780
32A, 3P+E	PSKPM40324	1135
16A, 3P+N+E	PSKPM50164	820
32A, 3P+N+E	PSKPM50324	1095
<b>Plug - IP67</b>		
16A, 2P + E	PSKPM30167	1355
32A, 2P + E	PSKPM30327	1915
63A, 2P + E	PSKPM30637	5435
16A, 3P + E	PSKPM40167	1530
32A, 3P + E	PSKPM40327	2420
63A, 3P + E	PSKPM40637	5175
16A, 3P + N + F	PSKPM50167	1640
32A, 3P + N + E	PSKPM50327	2085
63A, 3P + N + E	PSKPM50637	5185
125A, 3P + N + E	PSKPM51257	15840

## Socket Angled



### Highlights

- › Conforms to IEC 60309 -1&2
- › Mechanical Impact - IK08
- › Ingress Protection - IP44 & IP67
- › Fire Resistance - 850°C as per IEC 60695-2-11
- › Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
<b>Socket Angled - IP44</b>		
16A, 2P+E	PSKSA30164	655
32A, 2P+E	PSKSA30324	1160
16A, 3P+E	PSKSA40164	990
32A, 3P+E	PSKSA40324	1370
16A, 3P+N+E	PSKSA50164	1055
32A, 3P+N+E	PSKSA50324	1340
<b>Socket Angled - IP67</b>		
16A, 2P+E	PSKSA30167	1250
32A, 2P+E	PSKSA30327	1630
63A, 2P+E	PSKSA30637	5340
32A, 3P+E	PSKSA40327	2420
63A, 3P+E	PSKSA40637	5350
32A, 3P+N+E	PSKSA50327	1930
63A, 3P+N+E	PSKSA50637	5455
125A, 3P+N+E	PSKSA51257	18105

## Socket



### Highlights

- › Conforms to IEC 60309 -1&2
- › Mechanical Impact - IK08
- › Ingress Protection - IP44 & IP67
- › Fire Resistance - 850°C as per IEC 60695-211
- › Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
<b>Socket - IP44</b>		
16A, 2P+E	PSKSM30164	845
32A, 2P+E	PSKSM30324	1180
16A, 3P+E	PSKSM40164	990
16A, 3P + N + E	PSKSM50164	1080
32A, 3P + N + E	PSKSM50324	1445
<b>Socket - IP67</b>		
16A, 2P+E	PSKSM30167	1590
32A, 2P+E	PSKSM30327	2185
63A, 2P+E	PSKSM30637	5915
16A, 3P+E	PSKSM40167	1995
63A, 3P+E	PSKSM40637	5970
16A, 3P + N + E	PSKSM50167	2085
32A, 3P + N + E	PSKSM50327	2440
63A, 3P + N + E	PSKSM50637	6065
125A, 3P + N + E	PSKSM51257	19040

## Socket Straight



### Highlights

- › Conforms to IEC 60309 -1&2
- › Mechanical Impact - IK08
- › Ingress Protection - IP44 & IP67
- › Fire Resistance - 850°C as per IEC 60695-2-11
- › Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
<b>Socket Straight- IP44</b>		
16A, 2P+E	PSKSS30164	750
32A, 2P+E	PSKSS30324	1190
32A, 3P+N+E	PSKSS50324	1490
<b>Socket Straight- IP67</b>		
16A, 2P+E	PSKSS30167	1260
63A, 2P+E	PSKSS30637	6465
63A, 3P+E	PSKSS40637	5400
63A, 3P+N+E	PSKSS50637	5400
125A, 3P+N+E	PSKSS51257	18105



# Distribution Board suitable for Aluminum shuttering (Mivan) Construction



## DBs suitable for Aluminum Shuttering Construction [8537]

### SPN DBs

#### Highlights

- › Available in CRCA sheet steel, RAL 9003, powder coated
- › Ready to use DBs - Provided with 100A insulated phase bus-bar | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification label
- › With provision for DP MCB/Isolator/RCCB/RCBO as incomer and SP MCBS as outgoings

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit	
	Incomer + Outgoing				
<b>IP 43 - Metal Door</b>					
4 way	2	2	LTSD04M	*	
6 way	2	4	LTSD06M	*	
8 way	2	6	LTSD08M	*	
12 way	2	10	LTSD12M	*	
16 way	2	14	LTSD16M	*	

### TPN DBs

#### Highlights

- › Available in CRCA sheet steel, RAL 9003, powder coated
- › Ready to use DBs - Provided with 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- › With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBS as outgoings

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit	
	Incomer + Outgoing				
<b>IP 43 - Metal Door</b>					
4 way	8	4+4+4	LTTD04M	*	
6 way	8	6+6+6	LTTD06M	*	
8 way	8	8+8+8	LTTD08M	*	

\*For details, please contact nearest branch office



# EXORA.N

Distribution Boards

Lauritz

Knudsen

Electrical & Automation

# DESIGN OR SAFETY?

## OBVIOUSLY BOTH. OBVIOUSLY EXORA DBs.

Built to impress, engineered to protect - The new Exora Distribution Board sets the standard for style and safety.



Elegant,  
Curved Door  
Design



Safe push-type  
latch for  
enhanced safety



Superior Gasketing  
for lasting  
ingress protection



**Highlights**

- > Conforms to IEC 61439-1 & 3
- > IK 08-for single door DBs, IK 09-for double door DBs
- > Available in CRCA sheet steel, RAL9003, powder coated
- > Ready to use DBs - Provided with 100A insulated phase bus-bar | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification label
- > With provision for DP MCB/Isolator/RCCB/RCBO as incomer and SP MCBS as outgoings



Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
<b>IP 30 - Single Door</b>				
4 way	2	2	DESPN004SDS	1625
6 way	2	4	DESPN006SDS	1705
8 way	2	6	DESPN008SDS	1965
12 way	2	10	DESPN012SDS	2330
16 way	2	14	DESPN016SDS	2855
18 way	2	16	DESPN018SDS	3320
<b>IP 43 - Metal Door</b>				
4 way	2	2	DESPN004DDS	2120
6 way	2	4	DESPN006DDS	2440
8 way	2	6	DESPN008DDS	2615
12 way	2	10	DESPN012DDS	3135
16 way	2	14	DESPN016DDS	3965
18 way	2	16	DESPN018DDS	4150
<b>IP 43 - Glazed Door</b>				
4 way	2	2	DESPN004GDS	2835
6 way	2	4	DESPN006GDS	3020
8 way	2	6	DESPN008GDS	3280
12 way	2	10	DESPN012GDS	3995
16 way	2	14	DESPN016GDS	4965
18 way	2	16	DESPN018GDS	5255
<b>IP 54 - Metal Door</b>				
4 way	2	2	DESPN00454S	7395
6 way	2	4	DESPN00654S	8245
8 way	2	6	DESPN00854S	8770
12 way	2	10	DESPN01254S	10070
16 way	2	14	DESPN01654S	11210
18 way	2	16	DESPN01854S	11460

**Highlights**

- > Conforms to IEC 61439-1 & 3
- > IK 08-for single door DBs, IK 09-for double door DBs
- > Available in CRCA sheet steel, RAL 9003, powder coated
- > Ready to use DBs - Provided with 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification label
- > With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SPMCBs as outgoings



Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
<b>IP 30 - Single Door</b>				
4 way	4	4+4+4	DETPE004SDS	4235
6 way	4	6+6+6	DETPE006SDS	5200
8 way	8	4+4+4	DETPN004SDS	4465
12 way	8	6+6+6	DETPN006SDS	5525
16 way	8	8+8+8	DETPN008SDS	6520
18 way	8	12+12+12	DETPN012SDS	9390
20 way	8	16+16+16	DETPN016SDS	11450
<b>IP 43 - Metal Door</b>				
4 way	4	4+4+4	DETPE004DDS	4980
6 way	4	6+6+6	DETPE006DDS	6190
8 way	8	4+4+4	DETPN004DDS	5210
12 way	8	6+6+6	DETPN006DDS	6490
16 way	8	8+8+8	DETPN008DDS	7790
18 way	8	12+12+12	DETPN012DDS	11620
20 way	8	16+16+16	DETPN016DDS	14420
<b>IP 43 - Glazed Door</b>				
4 way	4	4+4+4	DETPE004GDS	6765
6 way	4	6+6+6	DETPE006GDS	8130
8 way	8	4+4+4	DETPN004GDS	7040
12 way	8	6+6+6	DETPN006GDS	8570
16 way	8	8+8+8	DETPN008GDS	10160
18 way	8	12+12+12	DETPN012GDS	15585
20 way	8	16+16+16	DETPN016GDS	18730
<b>IP 54 - Metal Door</b>				
4 way	4	4+4+4	DETPE00454S	16895
6 way	4	6+6+6	DETPE00654S	19745
8 way	8	4+4+4	DETPN00454S	17860
12 way	8	6+6+6	DETPN00654S	21505
16 way	8	8+8+8	DETPN00854S	23510
18 way	8	12+12+12	DETPN01254S	33135
20 way	8	16+16+16	DETPN01654S	39770

For ordering old DBs, replace Cat no with "DB" instead of "DE".

Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.



### Highlights

- › Conforms to IEC 61439-1 & 3
- › IK 09-for double door DBs
- › Available in CRCA sheet steel, RAL 9003, powder coated
- › Ready to use DBs - Provided with 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties| blanking plates and circuit identification labels
- › With provision for FP MCB / Isolator / RCCB / RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings



IP 43 - Metal Door

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
<b>IP 43 - Metal Door</b>					
4 way	8	2+2+2	4+4+4	DEHPI004DD	9265
6 way	8	2+2+2	6+6+6	DEHPI006DD	10970
8 way	8	2+2+2	8+8+8	DEHPI008DD	13155
12 way	8	2+2+2	12+12+12	DEHPI012DD	18125
16 way	8	2+2+2	16+16+16	DEHPI016DD	21745

### Horizontal PPI DBs

### Highlights

- › Conforms to IEC 61439-1 & 3
- › IK 09-for double door DBs
- › Available in CRCA sheet steel, RAL 9003, powder coated
- › Ready to use DBs - Provided with 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties| blanking plates and circuit identification labels
- › With provision for

  - » Modular Incomer - FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings
  - » MCCB Incomer - MCCB\* as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings



### With Modular Incomer

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
<b>IP 43 - Metal Door</b>					
4 way	8	4+4+4	4+4+4	DEPSG004DD	13605
6 way	8	4+4+4	6+6+6	DEPSG006DD	15340
8 way	8	4+4+4	8+8+8	DEPSG008DD	17115
12 way	8	4+4+4	12+12+12	DEPSG012DD	21230



### Tier PPI DBs



### With MCCB Incomer

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
<b>IP 43 - Metal Door</b>					
6 way	8	2+2+2	6+6+6	DETPI006DD	11350
8 way	8	2+2+2	8+8+8	DETPI008DD	14230
10 way	8	2+2+2	10+10+10	DETPI010DD	14920
12 way	8	2+2+2	12+12+12	DETPI012DD	15805
16 way	8	2+2+2	16+16+16	DETPI016DD	18020
12 way	MCCB*	2+2+2	12+12+12	DETPL012DD	16905

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Sub-Incomer	Outgoing		
<b>IP 43 - Metal Door</b>					
4 way	MCCB	4+4+4	4+4+4	DEPGL004DD	18715
6 way	MCCB	4+4+4	6+6+6	DEPGL006DD	21400
8 way	MCCB	4+4+4	8+8+8	DEPGL008DD	24750
12 way	MCCB	4+4+4	12+12+12	DEPGL012DD	27915

\*Suitable for 3 Pole & 4 Pole DU100H, DU100D, DNO-100D & DNO-100C MCCB as incomer

\*Suitable for 3 Pole & 4 Pole DU100H, DU100D, DNO-100D & DNO-100C MCCB as incomer

For ordering old DBs, replace Cat no with "DB" instead of "DE".

Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.



## Vertical TPN DB with MCCB Incomer [8537]

New

### Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with insulated vertical phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for 3 pole and 4 Pole MCCB\* as incomer and SP/TP MCBs as outgoing



### Up to 125A MCCB Incomer

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
<b>IP 43 - Metal Door</b>				
4 way	MCCB	4+4+4	DEVTL004DD	15180
6 way	MCCB	6+6+6	DEVTL006DD	17255
8 way	MCCB	8+8+8	DEVTL008DD	18995
12 way	MCCB	12+12+12	DEVTL012DD	25840
16 way	MCCB	16+16+16	DEVTL016DD	30825
<b>IP 54 - Metal Door</b>				
4 way	MCCB	4+4+4	DEVTL00454	31445
6 way	MCCB	6+6+6	DEVTL00654	35860
8 way	MCCB	8+8+8	DEVTL00854	38820

\*Suitable for 3 Pole & 4 Pole DZ0 MCCB as incomer.

In case of any other MCCB frame requirement please contact nearest branch.

## Vertical TPN DB with MCCB Incomer [8537]

New



### Up to 250A MCCB Incomer

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
<b>IP 43 - Metal Door</b>				
4 way	MCCB	4+4+4	DEVTH004DD	19725
6 way	MCCB	6+6+6	DEVTH006DD	22090
8 way	MCCB	8+8+8	DEVTH008DD	24295
12 way	MCCB	12+12+12	DEVTH012DD	29405
16 way	MCCB	16+16+16	DEVTH016DD	39515
<b>IP 54 - Metal Door</b>				
4 way	MCCB	4+4+4	DEVTH00454	36090
6 way	MCCB	6+6+6	DEVTH00654	39405
8 way	MCCB	8+8+8	DEVTH00854	40755

\*Suitable for 3 pole and 4 pole DU250, DU250C & DN1 MCCB as incomer

For ordering old DBs, replace Cat no with "DB" instead of "DE".

Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

## Vertical TPN DB with Modular Incomer [8537]

New

### Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with insulated vertical phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP/ TP MCBs as outgoing



Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
<b>IP 43 - Metal Door</b>				
4 way	8	4+4+4	DEVTM004DD	12835
6 way	8	6+6+6	DEVTM006DD	14300
8 way	8	8+8+8	DEVTM008DD	16600
12 way	8	12+12+12	DEVTM012DD	22390
16 way	8	16+16+16	DEVTM016DD	26715
<b>IP 54 - Metal Door</b>				
4 way	8	4+4+4	DEVTM00454	27135
6 way	8	6+6+6	DEVTM00654	29605
8 way	8	8+8+8	DEVTM00854	32690

## Flexi/Row DB [8537]

New

### Highlights

- Conforms to IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | cable ties | circuit identification labels
- With provision to mount modular devices as per requirement



Description	No. of Modules Per Row	Cat. Nos.	M.R.P. (₹) Per Unit
<b>IP 43 - Metal Door</b>			
2 Row 28 Module	14	DEROW228DD	6630
3 Row 42 Module	14	DEROW342DD	7950
4 Row 56 Module	14	DEROW456DD	8645
4 Row 64 Module	16	DEROW464DD	10055

For ordering old DBs, replace Cat no with "DB" instead of "DE".

Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

## TPN Phase Selector DB [8537] New

### Highlights

- › Conforms to IEC 61439-1 & 3
- › IK09-for double door Dbs
- › Available in CRCA sheet steel, RAL 9003, powder coated
- › Ready to use DBs - Provided with 3 nos. of 63A E&A rotary switches | 3 nos. of rocker switches for phase identification | 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- › With provision for - FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBS as outgoings



Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
<b>IP 43 - Metal Door</b>				
4 way	8	4+4+4	DEPSR004DD	16710
6 way	8	6+6+6	DEPSR006DD	16975
8 way	8	8+8+8	DEPSR008DD	18185
10 way	8	10+10+10	DEPSR010DD	19430
12 way	8	12+12+12	DEPSR012DD	20485

## EV charging DB 8537] New



### Highlights

- › Engineered specifically Charging application-3.3kW
- › Robust earth leakage, short circuit and overload protection with RCBO-
- › Factory fitted RCBO, switch and socket

Description	No. of Modules	Cat. Nos.	M.R.P. (₹) Per Unit
2 way EVDB	2	DEEVC002LD	*
4 way EVDB	4	DEEVC004LD	*

\*For details, please contact nearest branch office

## Enclosure [8537] New



### Highlights

- › Conforms to IEC 61439-1 & 3
- › Suitable for Surface and Flush mounting
- › Available in CRCA sheet steel, RAL9003, powder coated
- › With provision to mount MCB/Isolator/RCCB/RCBO and other modular devices

## IP 30 - Metal Door

Description	No. of Modules	Cat. Nos.	M.R.P. (₹) Per Unit
<b>IP 30 - Metal Door</b>			
2 way	2	DEENC002SD	825
3 way	3	DEENC003SD	825
4 way	4	DEENC004SD	825
6 way	6	DEENC006SD	1280

For ordering old DBs, replace Cat no with "DB" instead of "DE".

Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

## Plug & Socket DB [8537] New

### Highlights

- › Conforms to IEC 61439-1 & 3
- › Suitable for Surface and Flush mounting
- › Available in CRCA sheet steel, RAL9003, powder coated
- › Loose Metal Plugs & Sockets conforms to IS 8804; available in Single Phase & Three Phase



### Metal Plug & Socket

### Plastic Plug & Socket

Description	No. of Pins	No. of Modules	Cat. Nos.	M.R.P. (₹) Per Unit
				Metal Plug & Sockets
10 A, 2 Pin + SC^	P + N	1	DEMPS110SD	2050
20 A, 2 Pin + SC^	P + N	1	DEMPS120SD	2205
20 A, 2 Pin + SC^	P + N	2	DEMPS220SD	2390
20 A, 3 Pin + SC^	3P	3	DEMPS320SD	4050
32 A, 3 Pin + SC^	3P	3	DEMPS332SD	4795
32 A, 3 Pin + SC^	3P	4	DEMPS432SD	5100
63 A, 5 Pin + SC^	3P+N+E	4	DEMPS463SD	17280
Plastic Plug & Sockets				
16 A, 3 Pin	P+N+E	2	DEPPS316SD	3355
32 A, 3 Pin	P+N+E	4	DEPPS332SD	3620
32 A, 5 Pin	3P+N+E	8	DEPPS532SD	6045
63 A, 5 Pin	3P+N+E	8	DEPPS563SD	15145

## Metal Plug [8536]



Description	No. of Pins	Cat. Nos.	M.R.P. (₹) Per Unit
10 A, 2 Pin + SC^	P + N	MPS210P	255
20 A, 2 Pin + SC^	P + N	MPS220P	270
20 A, 3 Pin + SC^	3P	MPS320P	355
32 A, 3 Pin + SC^	3P	MPS332P	675

Note: Standard pack quantity - 20 nos.

## Metal Socket [8536]



Description	No. of Pins	Cat. Nos.	M.R.P. (₹) Per Unit
10 A, 2 Pin + SC^	P + N	MPS210S	265
20 A, 2 Pin + SC^	P + N	MPS220S	290
20 A, 3 Pin + SC^	3P	MPS320S	400
32 A, 3 Pin + SC^	3P	MPS332S	675

<sup>^</sup> SC-Scraping Earth

Note: Standard pack quantity - 20 nos.

## DBs with provision for TV / Telephone splitters [8537]



### Highlights

- › Distribution Boards equipped with provisions to mount TV / Telephone splitters
- › Available in SPN & TPN Dbs
- › Communication DB equipped with provisions to mount 2 ONT, Spike guard, Data switch, TV / Telephone splitters



TV / Telephone



Communication DB

DB Type	Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
		Incomer + Outgoing			
IP 43 - Metal Door					
SPN	6 way	2	4	DESPN006DDTV	4615
	8 way	2	6	DESPN008DDTV	4960
	12 way	2	10	DESPN012DDTV	6105
	16 way	2	14	DESPN016DDTV	7080
	18 way	2	16	DESPN018DDTV	8375
TPN	4 way	8	4+4+4	DETBN004DDTV	9070
	6 way	8	6+6+6	DETBN006DDTV	10475
	8 way	8	8+8+8	DETBN008DDTV	12490
Communication DB				DECOM01DD	*

\*For details, please contact nearest branch office

## Cable End Boxes [8537]

### Highlights

- › Available in CRCA sheet steel, RAL9003, powder coated
- › Can be either at the top or bottom of the distribution board

Description	Cat. Nos.	M.R.P. (₹) Per Unit
CEB for SPN DBs		
CEB-SPN Double Door, 4 way	DESPN004CBS	905
CEB-SPN Double Door, 6 way	DESPN006CBS	975
CEB-SPN Double Door, 8 way	DESPN008CBS	1090
CEB-SPN Double Door, 12 way	DESPN012CBS	1215
CEB-SPN Double Door, 16 way	DESPN016CBS	1710
CEB-SPN Double Door, 18 way	DESPN018CBS	1765
CEB for TPN DBs		
CEB-TPE Double Door, 4 way	DETPE004CBS	1170
CEB-TPE Double Door, 6 way	DETPE006CBS	1670
CEB-TPN Double Door, 4 way	DETPN004CBS	1225
CEB-TPN Double Door, 6 way	DETPN006CBS	1720
CEB-TPN Double Door, 8 way	DETPN008CBS	2165
CEB-TPN Double Door, 12 way	DETPN012CBS	3595
CEB-TPN Double Door, 16 way	DETPN016CBS	3630
CEB for Horizontal PPI DBs		
CEB-Horz. PPI Double Door, 4 way	DEHPI004CB	1815
CEB-Horz. PPI Double Door, 6 way	DEHPI006CB	2265
CEB-Horz. PPI Double Door, 8 way	DEHPI008CB	2840
CEB-Horz. PPI Double Door, 12 way	DEHPI012CB	3565
CEB-Horz. PPI Double Door, 16 way	DEHPI016CB	3875
CEB for VTPN DBs		
CEB-VTPN Double Door, Modular Incomer	DEVTMXXXCB	1215
CEB-VTPN Double Door, MCCB Incomer	DEVTXXXXCB	4285
CEB for Phase Segregated DBs		
CEB-PSG Double Door, 4 way	DEPSG004CB	3180
CEB-PSG Double Door, 6 way	DEPSG006CB	3790
CEB-PSG Double Door, 8 way	DEPSG008CB	4185
CEB-PSG Double Door, 12 way	DEPSG012CB	4660

For ordering old DBs, replace Cat no with "DB" instead of "DE".

Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

## DB Accessories

### Busbar - Fork Type [8538]

#### Highlights

- › Available in Single Pole, Double Pole, Three Pole and Four Pole versions
- › Material : Copper

Description	Cat. Nos..	M.R.P. (₹) Per Unit	Std. Pack Qty.
SP 13 Mod	BSP13	405	5
SP 56 Mod	BSP56	1655	5
DP 12 Mod	BDP12	720	5
TP 12 Mod	BTP12	775	5
FP 12 Mod	BFP12	1535	5
End Caps for SP	ECP01	25	10
End Caps for DP/TP	ECP03	55	10
End Caps for FP	ECP04	90	10



### Blanking Plates [8538]

#### Highlights

- › Available in One module and Half module

Description	Cat. Nos.	M.R.P. (₹) Per Unit	Std. Pack Qty.
One Module	BKP10	25	10
Half Module	BKP05	25	10



### Padlock [8301]

#### Highlights

- › Version with standard lock and a common key

Description	Cat. Nos.	M.R.P. (₹) Per Unit	Std. Pack Qty.
Lock and Key Kit	PDK02	705	5



## Discontinued Products/Suggested Alternate Products

Product Group	Discontinued Products	Suggested Alternate Products
MCCB	DTH800 3P & Acc	 DN4-1250N 800A 3P & Acc
Controlgear	MN0 control contactor, its spares and accessories	MO0 control contactor, its spares and accessories
Controlgear	MVO contactors	MNX contactor (up to 650 A)
Soft Starters	CSX	xS1000
Soft Starters	CSXi	xS2000
Soft Starters	EMX4e	xS3000
Soft Starters	EMX4i	xS4000
AC Drives	x2000 Series	xD Series
Electronic Motor Protection Relay	MPR200, MPR300	eMPR300
Protection Relay	MC12	OCR11
Protection Relay	MV12	VPR11
FDP	Common Mode SPD	Common+ Differential Mode SPD



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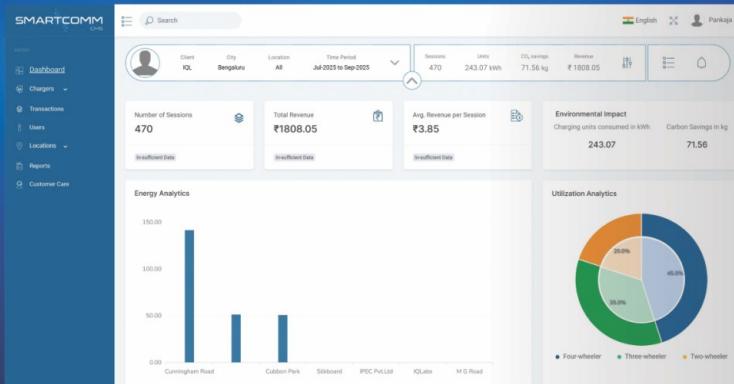
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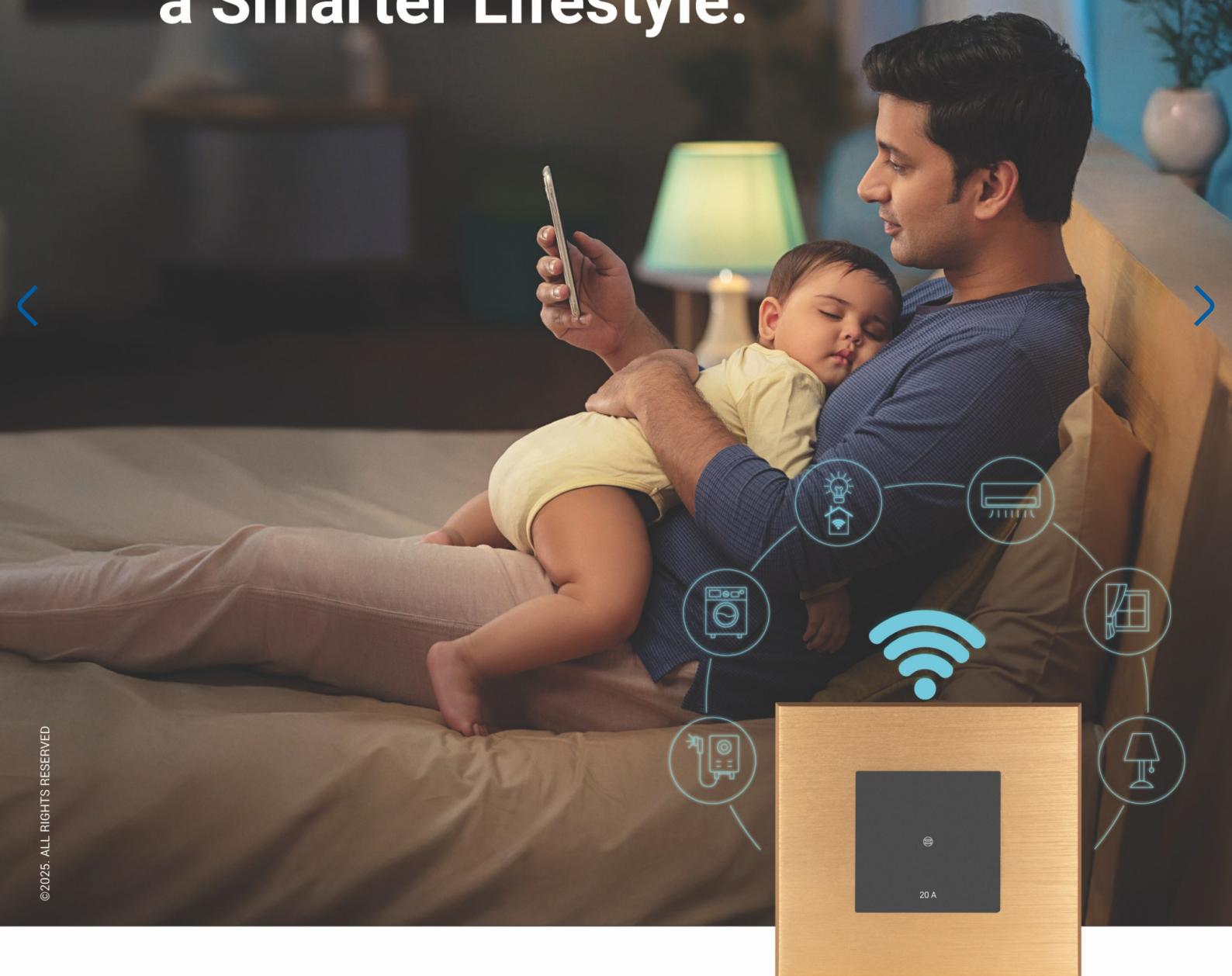
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Product improvement is a continuous process. For the latest information and special application,  
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