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Effective from 01-05-2024





Good quality products and customer service, continuous improvement in processes, systems and capabilities are the hallmark of leaders in business.

The Electrical Standard Products (ESP) business and New Product Development (NPD) function of L&T Electrical & Automation (E&A) have been awarded the Deming Prize 2019, by JUSE (Union of Japanese Scientists and Engineers), Japan.

The Deming Prize is one of the highest awards on Total Quality Management (TQM) in the globe. It is presented to an organization that has implemented TQM suitable for its management philosophy, scope/type/scale of business and management environment.

The TQM activities of ESP were evaluated for establishment of customer oriented objectives and strategies & top management leadership, suitable utilisation and implementation of TQM, effects obtained regarding business objectives and demonstration of organizational capabilities.

E&A's ESP is the first low voltage switchgear manufacturer in India that has received this recognition.





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

- Final Distribution Products - 6kA MCBs
- Servo & Motion Control Solutions
- 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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Designed for plants
up to 800 V AC

L&T Electrical & Automation (E&A) - India's leading supplier of low-voltage switchgear – presents a comprehensive, technically superior range of electricals for solar power installations up to 800 V AC.

Competitively priced, E&A's advanced product range comprises MCCBs, ACBs, AC-Load Break Switches, Outdoor VCBs, ABTs, Tariff Meters, Fuses, and SPDs. All designed to maximize the efficiency of your installation.

Give your solar power installation the high-tech, high-productivity edge. **Contact us today.**



Knowledge Portal

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Benefits of the Portal

This portal is an online repository of all L&T Electrical & Automation's literatures like

Catalogues Pricelists User Manuals Dimension Drawings Product Improvement Notes
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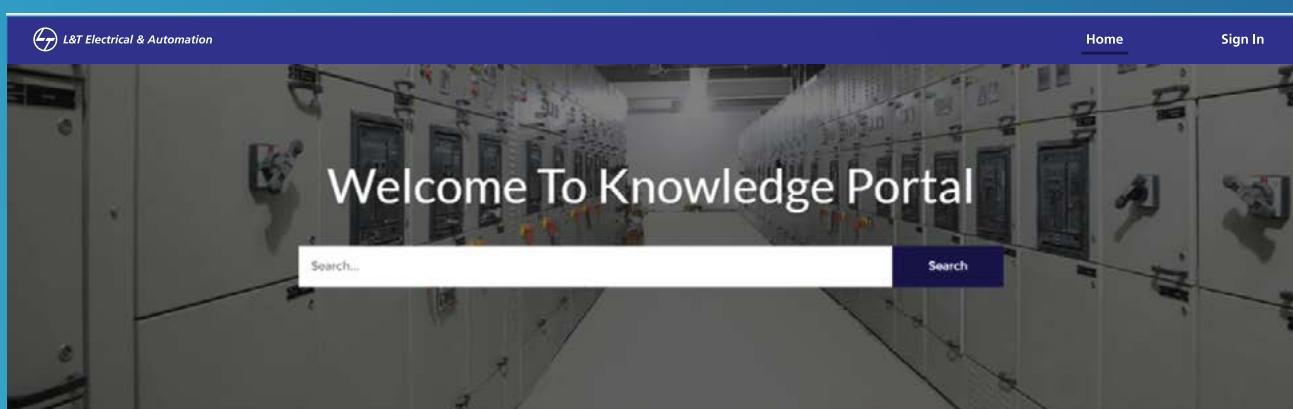
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Contactors

Power Contactors

1 Pole 2 Pole

- MR
- 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.

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com

Type	Cat. No.	M.R.P. (₹) Per Unit
MI 6 (With 1 NO aux contact)	CS90401	Price on request*
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	

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

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Size	AC 4 Rating (A)	AC 3e Rating (A)	AC 1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9	1 NO	CS94106	1000	20	Fr 0	9	9	30	MO 9	1 NO + 1 NC	CS94833	1700	10
				1 NC	CS94107	1000	20		12	12	32	MO 12	1 NO + 1 NC	CS94834	1920	10
	12	30	MNX 12	1 NO	CS94108	1160	20		18	18	32	MO 18	1 NO + 1 NC	CS94835	2150	10
				1 NC	CS94109	1160	20		25	25	45	MO 25	#	CS94567	2410	10
	18	30	MNX 18	1 NO	CS94100	1370	20		32	32	50	MO 32	#	CS94568	5110	10
				1 NC	CS94101	1370	20		40	40	50	MO 40	#	CS94569	7760	10
	22	32	MNX 22	1 NO	CS94980	1580	20		45	45	50	MO 45 ▲	#	CS94570	9900	10
				1 NC	CS94981	1580	20		50	50	100	MO 50	#	CS94572	10500	1
	25	45	MNX 25	#	CS94110	1630	20	Fr 2	60	60	100	MO 60	#	CS94573	11300	1
	32	55	MNX 32	#	CS94111	3450	20		70	70	100	MO 70	#	CS94574	14100	1
	40	55	MNX 40	#	CS94190	5380	20		80	80	125	MO 80	#	CS94576	17700	1
Fr 3	50	85	MNX 50	#	CS97075	7240	1	Fr 3	95	95	125	MO 95	#	CS94577	20200	1
	70	100	MNX 70	#	CS97076	10100	1		110	110	140	MO 110	#	CS94578	24500	1
	80	100	MNX 80	#	CS97077	12500	1		140	140	250	MO 140	2 NO + 2 NC	CS95000	33900	1
Fr 4	95	160	MNX 95	2 NO + 2 NC	CS94136	19100	1	Fr 4	185	185	275	MO 185	2 NO + 2 NC	CS95001	39400	1
	110	160	MNX 110	2 NO + 2 NC	CS94137	23200	1		225	225	275	MO 225	2 NO + 2 NC	CS95002	43300	1
	140	160	MNX 140	2 NO + 2 NC	CS94138	29600	1		140	140	250	MO 140	2 NO + 2 NC	CS95042	45500	1
Fr 5	185	250	MNX 185	2 NO + 2 NC	CS94139	35700	1	Fr 4*	185	185	275	MO 185	2 NO + 2 NC	CS95047	56400	1
	225	300	MNX 225	2 NO + 2 NC	CS94140	39300	1		225	225	275	MO 225	2 NO + 2 NC	CS95052	60200	1
	250	300	MNX 250	2 NO + 2 NC	CS94141	44300	1		250	250	400	MO 250	2 NO + 2 NC	CS94441	48800	1
Fr 6	300	400	MNX 300	2 NO + 2 NC	CS90280	53500	1	Fr 5	300	300	500	MO 300	2 NO + 2 NC	CS94440	58800	1
	400	425	MNX 400	2 NO + 2 NC	CS94144	75100	1		250	250	400	MO 250	2 NO + 2 NC	CS94456	66000	1
	550	650	MNX 550	2 NO + 2 NC	CS94145	110300	1		300	300	500	MO 300	2 NO + 2 NC	CS94464	76500	1
	650	800	MNX 650	2 NO + 2 NC	CS96327	168200	1									

Notes:

- 1) # Add-on blocks can be ordered separately
- 2) For ordering MNX/MO, please refer page No. 8
- 3) For ordering MNX/MO surge suppressor and MNX/MO MIL kit, please refer page No. 9
- 4) For ordering Suffix, please refer page No. 10
- 5) 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

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



Switching Solutions 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	850	10
	12	30	MNX 12-2P	1 NO	CS90234	990	10
	18	30	MNX 18-2P	1 NO	CS90236	1160	10
	22	32	MNX 22-2P	1 NO	CS90238	1340	10
Fr 2	25	45	MNX 25-2P	#	CS90240	1390	10
	32	55	MNX 32-2P	#	CS90241	2930	10
	40	55	MNX 40-2P	#	CS90242	4570	10
Fr 3	50	85	MNX 50-2P	#	CS94061	6150	1
	70	100	MNX 70-2P	#	CS94062	8590	1
	80	100	MNX 80-2P	#	CS94063	10600	1
Fr 4	95	160	MNX 95-2P	#	CS94064	16200	1
	110	160	MNX 110-2P	#	CS94065	19700	1
	140	160	MNX 140-2P	#	CS94066	25200	1
Fr 5	185	250	MNX 185-2P	2 NO + 2 NC	CS94978	30300	1
	225	300	MNX 225-2P	2 NO + 2 NC	CS94979	33400	1
	250	300	MNX 250-2P	2 NO + 2 NC	CS90301	37700	1
Fr 6	300	400	MNX 300-2P	2 NO + 2 NC	CS90346	45500	1
	400	425	MNX 400-2P	2 NO + 2 NC	CS94069	63800	1
	550	650	MNX 550-2P	2 NO + 2 NC	CS90243	93800	1
	650	800	MNX 650-2P	2 NO + 2 NC	CS90578	143000	1

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 - 110A AC-3
- Built in surge suppressor for MDX 9 - 110



MDX 25



MDX 38



MDX 110

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	2060	1
	12	28	MDX 12	1 NO	CS96565	2430	1
	18	32	MDX 18	1 NO	CS96566	2840	1
	25	32	MDX 25	1 NO	CS96567	3940	1
Fr 2 (DC Control Coil)	32	56	MDX 32	#	CS96552	7610	1
	38	56	MDX 38	#	CS96553	10400	1
Fr 3 (Electronic Coil-AC/DC)	50	90	MDX 50	#	CS91584	15100	1
	65	110	MDX 65	#	CS91585	17100	1
	80	125	MDX 80	#	CS91586	21200	1
	95	125	MDX 95	#	CS91857	25400	1
	115	125	MDX 115	#	CS91858	28300	1

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, 110V 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
- 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.)
For AC control (Std. Coil Voltage - 24, 110, 240, 415V, 50Hz)						
6A	20A	MX 06	1 NO	CS94012	1210	10
6A	20A	MX 06	1 NC	CS94013	1210	10
9A	20A	MX 09	1 NO	CS94014	1250	10
9A	20A	MX 09	1 NC	CS94015	1250	10
12A	20A	MX 12	1 NO	CS94016	1390	10
12A	20A	MX 12	1 NC	CS94017	1390	10
For DC control (Std. Coil Voltage - 24, 110, 220V)						
6A	20A	MX 06	1 NO	CS94021	1900	10
6A	20A	MX 06	1 NC	CS94022	1900	10
9A	20A	MX 09	1 NO	CS94023	1980	10
9A	20A	MX 09	1 NC	CS94024	1980	10
12A	20A	MX 12	1 NO	CS94025	2180	10
12A	20A	MX 12	1 NC	CS94026	2180	10

3 Pole Power Contactors - Type ML

Features

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



ML 1.5



ML 3



ML 6



ML 12

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	4490	1
Fr 2	32	40	ML 2	2 NO + 2 NC	SS90701	8340	1
	40	45	ML 3	2 NO + 2 NC	SS90721	12300	1
Fr 3	70	100	ML 4	2 NO + 2 NC	SS90910	20100	1
	110	125	ML 6	2 NO + 2 NC	SS90921	31800	1
Fr 4	300	400	ML 12	2 NO + 2 NC	SS91010	72000	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 16A – 800A AC-1
- Wide operating band up to 130A AC-1



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	1200	10
	25	MCX 02	#	CS97010	1270	10
	32	MCX 03	#	CS97011	1350	10
	40	MCX 04	#	CS97012	1880	10
Fr 2	55	MCX 11	#	CS97013	2490	1
	63	MCX 12	#	CS97014	4880	1
	80	MCX 13	#	CS97015	8100	1
Fr 3	105	MCX 22	#	CS97017	10800	1
	130	MCX 23	#	CS97018	12800	1
Fr 4	160	MCX 32	2 NO + 2 NC	CS97020	21100	1
	200	MCX 33	2 NO + 2 NC	CS97021	25800	1
	255	MCX 34	2 NO + 2 NC	CS97022	31700	1
Fr 5	325	MCX 41	2 NO + 2 NC	CS97023	52000	1
	360	MCX 42	2 NO + 2 NC	CS97024	56000	1
	400	MCX 43	2 NO + 2 NC	CS97025	65000	1
	560	MCX 44	2 NO + 2 NC	CS97026	82300	1
	600	MCX 45	2 NO + 2 NC	CS97027	97400	1
	700	MCX 46	2 NO + 2 NC	CS97028	109300	1
Fr 6	900	MCX 47	2 NO + 2 NC	CS94291	144000	1

AST System Components [9032]

Automatic Transfer Controllers (ATC)



AuXC-2000 Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 Controller	ATC20000000	31600	1
AuXC-2100 Controller** with Optional RS485	ATC21000000	63000	1
RS485 Module for AuXC-2100 Controller**	ETACONRS485	12600	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

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



Notes for MCX :

- 1) # Add on blocks can be ordered separately.
- 2) For ordering MCX add-on aux contact blocks, please refer page No. 8
- 3) For ordering MCX surge suppressor and MIL kit, please refer page No. 9
- 4) For Ordering Suffix, please refer page No. 10
- 5) Standard Coil Voltage: MCX - 220V, 240V and 415V 50Hz
- 6) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
- 7) MCX 01-04 and MCX 11-13 available in 48V DC coil. Contact nearest branch for more details.
- 8) MCX 01-04 available with 2NO+2NC power contacts. Contact nearest branch for more details.

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

Control Relays (Auxiliary Contactors) [8536]

Type MX0 AC



MX0 40E

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

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94018	1460	10
	MX0 31E (3 NO + 1 NC)	CS94019	1460	10
	MX0 22E (2 NO + 2 NC)	CS94020	1460	10
	MX0 13E (1 NO + 3 NC)	CS94041	1460	10
	MX0 04E (4 NC)	CS94042	1460	10

Type MX0 DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94027	1910	10
	MX0 31E (3 NO + 1 NC)	CS94028	1910	10
	MX0 22E (2 NO + 2 NC)	CS94029	1910	10
	MX0 13E (1 NO + 3 NC)	CS94043	1910	10
	MX0 04E (4 NC)	CS94044	1910	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

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A at 415V	MO0 40E (4 NO)	CS91623	935	10
	MO0 31E (3 NO + 1 NC)	CS91624	935	10
	MO0 22E (2 NO + 2 NC)	CS91625	935	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

Type 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.)
For DC control std. Coil Voltage - 24, 48, 110, 220				
AC-15 4A at 415 V	MO0 40E (4 NO)	CS90045	2090	10
	MO0 31E (3 NO + 1 NC)	CS90046	2090	10
	MO0 22E (2 NO + 2 NC)	CS90047	2090	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

Capacitor Duty Contactors [8536]

Capacitor Duty Contactors - Type MO C



MO C25



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	2120	1
	5	MO C5	1NO	CS96127	2220	1
	8.5	MO C8.5	1NO	CS96320	2490	1
	10	MO C10	1NO	CS96156	2650	1
	12.5	MO C12.5	1NO	CS96321	2780	1
	15	MO C15	1NO	CS90019	3750	1
	20	MO C20	1NO	CS90021	4220	1
	25	MO C25▲	1NO	CS96322	4860	1
Fr 2	30	MO C30\$	1NO	CS96148	7360	1
	40	MO C40	1NO	CS96147	12200	1
	50	MO C50	1NO	CS96324	13400	1
Fr 3	60	MO C60\$	1NO	CS96149	14700	1
	75	MO C75	1NO	CS96150	17800	1
	85	MO C85	1NO	CS96157	19200	1
	100	MO C100\$	1NO	CS96158	19800	1

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. 68-73**

Note :

- 1) For ordering add-on aux. contact block, please refer page No. 8
- 2) For ordering suffix, please refer page No.10
- 3) For ordering spare coils, please refer page No. 11
- 4) Standard coil voltage : 240V, 50/60 Hz
- 5) 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

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	1200	10
25A	MR 11NW	CS94178	1280	10
40A	MR 13	CS94992	1310	40

Note:

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

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	990	10
25A	MU25-2P	CS90118	1210	10
40A	MU40-2P	CS90119	1535	10

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
- 3) 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 9-110	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# 9-110	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^	625	CS94594^	625	-	-	CS94033^	590	-	-
3 NO + 1 NC	CS94113^	625	CS94595^	625	-	-	CS94034^	590	-	-
2 NO + 2 NC	CS94114^	625	CS94596^	625	CS96569~	820	CS94035^	590	-	-
1 NO + 3 NC	CS94115^	625	CS94597^	625	CS90906~	820	CS94036^	590	-	-
4 NC	CS94116^	625	CS94598^	625	-	-	CS94037^	590	-	-
2 NO	CS94117^	415	CS94591^^	415	-	-	CS94030^	380	CS90692^	415
1 NO + 1 NC	CS94118^	415	CS94592^^	415	CS96568~	480	CS94031^	380	CS90693^	415
2 NC	CS94119^	415	CS94593^^	415	-	-	CS94032^	380	CS90694^	415
1 NO	CS94120^	215	CS94585^^	215	CS96586~	265	-	-	CS90695^	215
1 NC	CS94121^	215	CS94586^^	215			-	-	CS90696^	215

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



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^	665	CS94201^	715	CS94201^	715	CS94580^	665	
First Right	1 NO + 1 NC	CS94221^	665	CS94202^	715	CS94202^	715	CS94581^	665	
Second Left	1 NO + 1 NC	-	-	-	-	CS94203^	715	CS94582^	665	
Second right	1 NO + 1 NC	-	-	-	-	CS94204^	715	CS94583^	665	

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.



MO
Left 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# 9-110	M.R.P. (₹) Per Unit
First left	1 NO + 1 NC	CS94205^	815	CS95033^	815	ST94985^	980
First Right	1 NO + 1 NC	CS94206^	815	CS95034^	815		
Second Left	1 NO + 1 NC	CS94207^	815	CS95035^	815	-	-
Second right	1 NO + 1 NC	CS94208^	815	CS95036^	815	-	-

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

Accessories - Add-on Auxiliary Contact Blocks [8538]

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



ML Add-on aux. contact Block

Side Mounting	Aux Contact	Suitable for			
		ML 4/6	M.R.P. (₹) Per Unit	ML 12	M.R.P. (₹) Per Unit
Left	1 NO + 1 NC	SS91494^	1010	-	-
Right	1 NO + 1 NC	-	-	SS91474^	1010

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



MR 1NO

Description	For Contactor	Contacts Type	Cat. No.	M.R.P. (₹) Per Unit
Top add-on single pole	MR	1 NO	CS94179^	315

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

Accessories - Surge Suppressors [8538]

For MX, MNX, MCX, MO & MO C



MNX S1



MX - S1



MO/MO C/MO0-SS



Ordering Suffix * 110-240V: BOOO, 415V: DOOO

110V: AOOO, 220-240V: BOOO, 360-525V: DOOO
^ 110V: AOOO, 220-320V: BOOO, 360-415V: DOOO

MDX 9-110, 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*	530	10
MNX 9 - 40 / MCX 01 - 04 (S1)	CS94166*	535	10
MNX 50 - 80 / MCX 11 - 23 (S3)	CS94163*	595	10
MNX 95 - 250 / MCX 32 - 34 (S4)	CS94164#	1960	10
MNX 300 - 400 / MCX 41 - 44 (S6)	CS94165#	2650	10
MO Frame 0/1, MO C Frame 1, MO0 Control	CS91706^	535	10
MO/MO C - Frame 2	CS91707^	595	10
MO/MO C - Frame 3	CS91708^	1960	10
MO Frame - 4/5	CS91854^	2650	10

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

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



MNX M1
(MNX 9-40)



MCX M3
(MCX 22)



MO MI Kit
(MO 9-110)



MX-M1
(MX0 / MX06-MX09)

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0	CS94038	530	10
MO 9 - 110*	CS94584	750	10
MDX 9 - 38	CS96572	595	1
MDX 50 - 110	CS96573	1820	1
MNX 9 - 40	CS94126	430	10
MNX 50 - 80	CS94197	3030	1
MNX 95 - 140	CS94198	4710	1
MNX 185 - 250	CS94199	5370	1
MNX 300 - 650	CS94200	6080	1
MCX 01 - 04	CS94126	430	10
MCX 11 - 13	ST50540	850	10
MCX 22 - 23	CS93095	4000	1
MCX 32 - 34	SS94992	4130	1
MCX 41 - 47	CS94301	6820	1

Note:

- Ordering Suffix for Mechanical Interlock Kits : OOOO
- * MO MIL Kit contains inbuilt 2 NC Contacts
- Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
- MIL kit for MNX 50-80 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC
- 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

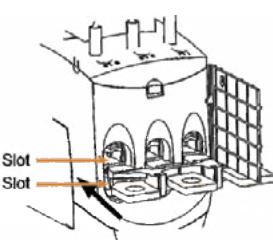


For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9 - 45 / MOC 3 - 30	CS94274	500	10
MO 50 - 70 / MOC 40 - 60	CS94093	790	10
MO 80 - 110 / MOC 75 - 100	CS94094	1140	1
MO 140 - 225	CS91057	3200	1
MO 250 - 300	CS90940	4990	1

Note:

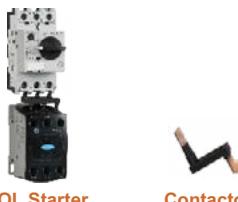
- If using 16 sq mm cable for MO 45/MO C25 use of spreader link is mandatory
- Spreader Link Kit consists of six terminals along with phase barrier (Not applicable for MO 250-300)
- In MO C 30, MO C 60 & MO C 100 spreader link is included in packing
- Ordering Suffix: OOOO

5) Insert spreader link in top slot only



Accessories - Connecting Links [8538]

DOL Starter - Link



Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90396 #	415	10
MOG H1/S1 with MO 25-45	CS90391 #	415	10

Reversing DOL Starter - Link



Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90548 #	1040	10
MOG H1/S1 with MO 25-45	CS90546 #	1040	10

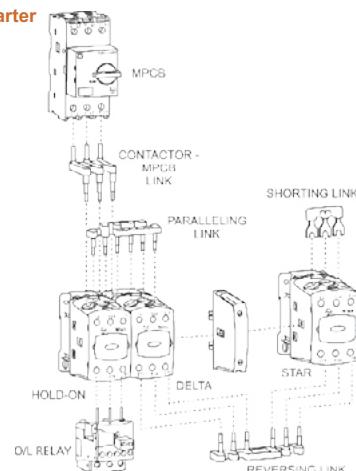
Star Delta Starter - Link



Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	CS90549 #	1250	10
MOG H1/S1 with MO 25-45	CS90547 #	1250	10

Ordering Suffix OOOO

Example of Star Delta Starter Connection with Link



Accessories - Mechanical Latch [8538]

Mechanical Latch

Features

- Keeps contactor in closed condition even after removal of coil supply
- Ideal for logical operations
- Suitable for sites where voltage fluctuation is frequent
- Saves energy as coil supply can be removed once contactor is picked up

Suitable For	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9-70A, MO 0 control	Mechanical Latch	CS90136	2780	10

For Ordering Suffix refer below table
Standard Coil Voltage of Mechanical Latch is 24V AC, 110V AC & 240V AC

Ordering Suffix for Standard Coil Voltages

Ordering Suffix for Standard Coil Voltages			
AC Control		DC Control*	
Voltage (V)	Suffix	Voltage (V)	Suffix
24	GOOO	24	4000
110	A0OO	48	5000
220	K0OO	110	1000
240	B0OO	220	2000
415	D0OO		
440	P0OO		

Ordering suffix for Electronic coil Contactor		
AC / DC control		
Voltage (V)	Suffix	Contactor
20-48	JOOO	MDX 50-110
60-110	A0OO	MDX 50-110
110-240	BOOO	MDX 50-110 & MO 140-300
240-415	DOOO	MO 140-300

Note:

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

Spares [8538]

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^	2320	SS90873 ^	925
ML 2	SS95307^	4240	SS90545 ^	1700
ML 3	SS95309^	7150		
ML 4	SS95311^	11100	SS91258 ~	3250
ML 6	SS95313^	19600		
ML 10	SS95315~	40000	SS91011 ~	7120
ML 12	SS95317~	43100	CS94102 ^	700
MR	-	-	CS90793 ^	385
MU16-2P	CS90217^	290		
MU25-2P	CS90218^	380		
MU40-2P	CS90219^	550		
MO 0 AC	-	-	CS94841 ^	500

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

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^	555		
	MO 12 (1 NO + 1 NC)	CS94844^	720		
	MO 18 (1 NO + 1 NC)	CS94845^	790		
MO Contactors	MO 9	CS96380~	555		
	MO 12	CS96381~	720		
	MO 18	CS96382~	790		
	MO 25	CS96383~	905		
	MO 32	CS96384~	2050		
	MO 40	CS96385~	3460		
	MO 45	CS96386~	3500		
	MO 50	CS96387~	3540		
	MO 60	CS96388~	4580		
	MO 70	CS96389~	5090		
MVO	MO 80	CS96390~	7000		
	MO 95	CS96391~	8830		
	MO 110	CS96392~	12900		
	MO 140	CS90357~	15500		
	MO 185	CS90358~	18600		
	MO 225	CS90359~	21300		
	MO 250	CS94444~	25600		
	MO 300	CS94443~	28900		
	MO 140 (electronic coil)	CS90357~	15500		
	MO 185 (electronic coil)	CS90358~	18600		
MNX Contactors	MO 225 (electronic coil)	CS90359~	21300		
	MO 250 (electronic coil)	CS94444~	25600		
	MO 300 (electronic coil)	CS94443~	28900		
	MVO	-	-	CS90174~	32000
	MNX 9	CS94123^	555		
	MNX 12	CS94124^	720		
	MNX 18	CS94125^	790		
	MNX 22	CS94269^	835		
	MNX 25	CS94127^	905		
	MNX 32	CS94128^	2050		
MCX Contactors	MNX 40	CS94147^	3460		
	MNX 50	CS94150^	3540		
	MNX 70	CS94151^	5090		
	MNX 80	CS94152^	7000		
	MNX 95	CS94153~	8830		
	MNX 110	CS94154~	12900		
	MNX 140	CS94155~	15500		
	MNX 185	CS94156~	18600		
	MNX 225	CS94157~	21300		
	MNX 250	CS90310~	25600		
MCX Contactors	MNX 300	CS90283~	28900		
	MNX 400	CS94161~	42400		
	MNX 550	CS94162~	55900		
	MNX 650	CS96336~	86500		
	MCX 01-04	-	-	CS94105^	500
	MCX 11	CS94077^	1800		
	MCX 12	CS94078^	3530		
	MCX 13	CS90307^	5410		
	MCX 22	CS94331~	6340		
	MCX 23	CS90078~	7930		
MCX Contactors	MCX 32	CS94082^	12300		
	MCX 33	CS94083^	15900		
	MCX 34	CS94084^	18000		
	MCX 41	CS94295~	28100		
	MCX 42	CS94296~	33000		
	MCX 43	CS94297~	39600		
	MCX 44	CS94298~	48600		
	MCX 45	CS94299~	51800		
	MCX 46	CS94300~	60200		
	MCX 47	CS90308~	81400		

* Ordering Suffix for 240V AC - F0OO, 415V AC - R0OO

~ Standard Packing is 1

^~ Standard Packing is 5

^ Standard Packing is 10

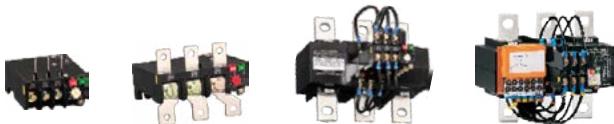
~~ Standard Packing is 50

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.)
Direct Mounting on MNX 9 - 40				
MN 2 (Directly Operated)	0.2 - 0.33	SS94141OOEO	1690	10
	0.3 - 0.5	SS94141OOGO	1690	10
	0.45 - 0.75	SS94141OOJO	1690	10
	0.6 - 1	SS94141OOKO	1690	10
	0.9 - 1.5	SS94141OOMO	1700	10
	1.4 - 2.3	SS94141OOP0	1700	10
	2 - 3.3	SS94141OOQ0	1700	10
	3 - 5	SS94141OOS0	1700	10
	4.5 - 7.5	SS94141OOU0	1700	10
	6 - 10	SS94142OOVO	1700	10
	9 - 15	SS94142OOBO	1710	10
	14 - 23	SS94144OODO	1860	10
	20 - 33	SS94145OOEO	2740	10
	24 - 40	SS94145OOFO	2880	10
Direct Mounting on MNX 50 - 80				
MN 5 (Directly Operated)	9 - 15	SS94135OOBO	3410	10
	14 - 23	SS94135OODO	3410	10
	20 - 33	SS94136OOEO	3410	10
	30 - 50	SS94136OOGO	4200	10
	36 - 60	SS94136OOTO	4520	10
	45 - 75	SS94137OOJO	4850	10
	66 - 110	SS94137OOKO	5530	10
Separate Mounting				
MN 12 (CT Operated)	28 - 46.5	SB94211OOGO	8060	1
	42 - 69	SS94138OOHO	8060	1
	60 - 100	SS94138OOKO	8060	1
	90 - 150	SS94138OOMO	8060	1
	135 - 225	SS94138OOP0	10100	1
	180 - 300	SS94139OOQ0	10600	1
	270 - 450	SS94139OOR0	13300	1
Separate Mounting				
MN 12L # (CT Operated)	42 - 69	SS94127OOHO	25900	1
	60 - 100	SS94127OOKO	25900	1
	90 - 150	SS94127OOMO	25900	1
	135 - 225	SS94127OOP0	25900	1
	180 - 300	SS94127OOQ0	25900	1
	340 - 570	SS94127OOS0	25900	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

RTO 4

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Direct Mounting on MO 9 - 45				
RTO - 1 (Directly Operated)	0.23 - 0.41	CS96355OOFO	2280	10
	0.31 - 0.55	CS96355OOGO	2280	10
	0.55 - 0.85	CS96355OOJO	2280	10
	0.78 - 1.2	CS96355OOLO	2280	10
	1.2 - 2.0	CS96355OONO	2280	10
	1.9 - 2.8	CS96355OOP0	2310	10
	2.4 - 3.6	CS96355OOQ0	2310	10
	3.5 - 5.2	CS96355OOS0	2310	10
	4.6 - 6.7	CS96355OOTO	2310	10
	6.7 - 9.7	CS96355OOVO	2310	10
	8.5 - 12.5	CS96355OOAO	2350	10
	12.5 - 18.5	CS96356OOCO	2350	10
	17 - 25.5	CS96356OODO	2500	10
	25 - 37	CS96356OOEO	3680	10
	35 - 45	CS96356OOGO	3870	10
Direct Mounting on MO 50 - 70				
RTO - 2 (Directly Operated)	5 - 7.5	CS96366OOU0	4510	1
	7 - 11	CS96366OOVO	4510	1
	10.5 - 16	CS96366OOBO	4510	1
	15 - 21	CS96366OOC0	4510	1
	20 - 31	CS96366OOEO	4640	1
	30 - 43	CS96366OOFO	5600	1
	40 - 57	CS96366OOS0	6210	1
	50 - 75	CS96367OOJO	6490	1
Direct Mounting on MO 80 - 110				
RTO - 3 (Directly Operated)	23 - 30	CS90873OOEO	7550	1
	29 - 38	CS96303OOQ0	7840	1
	37 - 49	CS96304OOG0	8090	1
	47 - 62	CS96312OOTO	8240	1
	60 - 78	CS96313OOJO	9710	1
	75 - 110	CS96314OOKO	10600	1
Separate Mounting				
RTO - 4 (CT Operated)	23.4 - 36	CS97096OOG0	11100	1
	36 - 60	CS97096OOJO	11100	1
	57 - 84	CS97096OOKO	11100	1
	72 - 108	CS97096OOLO	11100	1
	105 - 156	CS97096OOM0	11100	1
	138 - 201	CS97096OONO	13700	1
	201 - 291	CS97096OOQ0	14300	1
	255 - 375	CS97096OOR0	17600	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) Direct Mounting on MX Contactors	0.23-0.41	CS96357OOFO	1370	10
	0.45-0.78	CS96357OOJO	1370	10
	0.78-1.2	CS96357OOLO	1370	10
	1.2-1.9	CS96357OONO	1370	10
	1.8-2.8	CS96357OOPO	1370	10
	2.6-3.6	CS96357OOQO	1370	10
	3.6-5.2	CS96357OOSO	1370	10
	4.8-7	CS96357OOTO	1370	10
	6.4-9.7	CS96357OOVO	1370	10
	8.2-12.1	CS96357OOAO	1370	10

Type 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	3110	10
	0.25 - 0.4	SS918580OFO	3110	10
	0.4 - 0.65	SS918580OHO	3110	10
	0.6 - 1	SS918580OKO	3110	10
	1 - 1.6	SS918580OMO	3110	10
	1.5 - 2.5	SS918580OPO	3110	10
	2.5 - 4	SS918580ORO	3110	10
	4 - 6.5	SS918580OTO	3110	10
	6 - 10	SS918580OVO	3110	10
	10 - 16	SS918580OOBO	3110	10
	11 - 18	SS918580OCO	3110	10
Direct Mounting on ML 2/3 Contactors				
ML 2 / ML 3 (Directly Operated)	9 - 14	SS918590OAO	4590	10
	13 - 21	SS918590OCO	4590	10
	20 - 32	SS918590OE0	4590	10
	28 - 42	SS918590OFO	4590	10

Type MU-2P (2 Pole)



Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	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	CS90207OOOMO	715	1	Direct Mounting on MU-2P Contactor	11 - 18A	CS90207OOOCO	800	1
	1.5 - 2.5A	CS90207OOPO	715	1		13 - 22A	CS90207OOODO	800	1
	2.5 - 4A	CS90207OOORO	715	1		16 - 26A	CS90207OOBO	800	1
	4 - 6.5A	CS90207OOOTO	715	1		20 - 32A	CS90207OOEO	1000	1
	6 - 10A	CS90207OOVO	715	1		26 - 40A	CS90207OOFO	1000	1
	9 - 14A	CS90207OOAO	715	1					

Accessories for Thermal Overload Relays [8538]

Accessories for Thermal Overload Relays



Relay Mounting Kit Kit for Mounting MN5 Relay Din Rail Mounting Kit MN2 Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Push button extn. unit for MN 2 Relays	SS949680000	65	100
Kit for Mounting MN 2 Relay on ML 1.5 contactor	SS947010000	225	50
Kit for Mounting MN 2 Relay separately (Direct Mounting Type)	SS947000000	225	50
Kit for Mounting MN 5 Relay on MNX 95 / 110 / 140 contactor	SS946380000	360	20
Kit for Mounting MN 5 Relay on ML 2 / ML 3 contactor	SS941510000	235	20
Kit for Mounting MN5 Relay on ML 4 / ML 6 contactor	SS941520000	320	20
DIN Rail Mounting Kit Relay on MN 2 Relay	SS918870000	175	50

Relay Reset Cord for MN & RTO relay



Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN Relay reset cord - 400mm	SB942070000	820	1
MN Relay reset cord - 650mm	SB942080000	850	1
MN Relay reset cord - 900mm	SB942090000	875	1
MN Relay reset cord - 1200mm	SB942100000	980	1
RTO Relay reset cord - 400mm	CS909410000	820	1
RTO Relay reset cord - 650mm	CS909420000	850	1
RTO Relay reset cord - 900mm	CS909430000	875	1
RTO Relay reset cord - 1200mm	CS909440000	980	1

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RTO-1 Relay Separate Mounting Kit	CS963350000	305	1
RTO-2 Relay Separate Mounting Kit	CS963060000	725	1
RTO-3 Relay Separate Mounting Kit	CS963070000	1030	1

Separate Mounting Kit for RTO Relay



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	CS90418OOJO	5360	REO 1.1G	CS90423OOJO	8940	10
		0.6-3	CS90418OOQO	5360		CS90423OOQO	8940	10
		2.4-12	CS90418OOLO	5360		CS90423OOLO	8940	10
		9-45	CS90418OOGO	6030		CS90423OOGO	9250	10
REO 4	Separate Mounting	18-90	CS90418OOUO	15900	REO 4G	CS90423OOUO	16400	1
		72-360	CS90418OORO	23300		CS90423OORO	23500	1

New 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	CS91911OOJO	7450	1
		0.6-3	CS91911OOQO	7450	1
		2.4-12	CS91911OOLO	7450	1
		9-45	CS91911OOGO	7450	1

Accessories for REO - Electronic Overload Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO Relay Reset Cord - 400mm	CS90425OOOO	820	1
Separate Mounting Kit for REO 1.1/1.1G/1.1c Relay	CS96335OOOO	305	1

MPR200nX Electronic Motor Protection Relay



- Protections:
 - Overload
 - Locked Rotor
 - Single Phasing, Current Unbalance, Phase Sequence Reversal
 - Under Current
 - Inbuilt CT's (1 A to 88 A)
 - Trip indication
 - Test facility
 - 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
MPR200nX	240V AC	1 - 2.75	49, 51LR, 37, 46,	MPR200BE010	3600
		2 - 5.5		MPR201BE020	4200
		4 - 11		MPR202BE040	4800
		8 - 22		MPR203BE080	5400
		16 - 44		MPR204BE160	6000
	110V AC	32 - 88		MPR205BE320	6600
		1 - 2.75		MPR200BB010	3600
		2 - 5.5		MPR201BB020	4200
		4 - 11		MPR202BB040	4800
		8 - 22		MPR203BB080	5400



- Protections:
 - Overload
 - Earth Fault
 - Locked Rotor
 - Single Phasing, Current Unbalance, Phase Sequence Reversal
 - Under Current
 - Inbuilt CT's (1 A to 88 A)
 - Trip indication
 - Test facility
 - 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
MPR300	240V AC	1 - 2.75	49, 51LR, 64, 37, 46,	MPR300BE010	7900
		2 - 5.5		MPR301BE020	8500
		4 - 11		MPR302BE040	9100
		8 - 22		MPR303BE080	9700
		16 - 44		MPR304BE160	10300
	110V AC	32 - 88		MPR305BE320	10900
		1 - 2.75		MPR300BB010	7900
		2 - 5.5		MPR301BB020	8500
		4 - 11		MPR302BB040	9100
		8 - 22		MPR303BB080	9700

Note: MPR200nX / MPR300 must sense Line current in case of Star-Delta Starter.

Electronic Motor Protection Relay [8536]

MPR300 with Fail safe logic

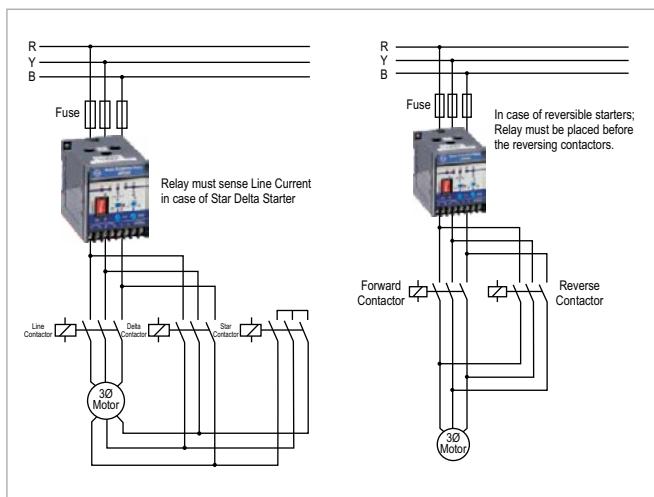
MPR300 with Fail safe logic will trip the Motor in case of Aux. supply failure



Model	Aux. Supply	Thermal Over load range	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MPR300	240 VAC	1 - 2.75	49, 51LR, 64, 37, 46	MPR300BF010	7900
		2 - 5.5		MPR301BF020	8500
		4 - 11		MPR302BF040	9100
		8 - 22		MPR303BF080	9700
		16 - 44		MPR304BF160	10300
		32 - 88		MPR305BF320	10900

Note : MPR300 must sense line current in case of Star-Delta Starter.

MPR200nX / MPR300 Application Diagram



MPR200nX / MPR300 Trip Time Characteristics

Trip class	Trip time delay		
	I = 120% of Im	I = 150% of Im	I = 720% of Im
10A	< 2 hours	< 2 min	2 - 10 secs
10	< 2 hours	< 4 min	4 - 10 secs
20	< 2 hours	< 6 min	6 - 20 secs
30	< 2 hours	< 12 min	9 - 30 secs

Im - Motor Full Load Current
I - Actual current drawn by the Motor

MC2 - 30M / MC2 - 30MW

Comprehensive Motor Protection Relay for Medium and Large Sized Induction Motors

- Modbus RTU / IEC870-5-103 Communication Protocol
- MC2-30M offers Current based protections whereas, MC2-30MW offers Current + Voltage based protections



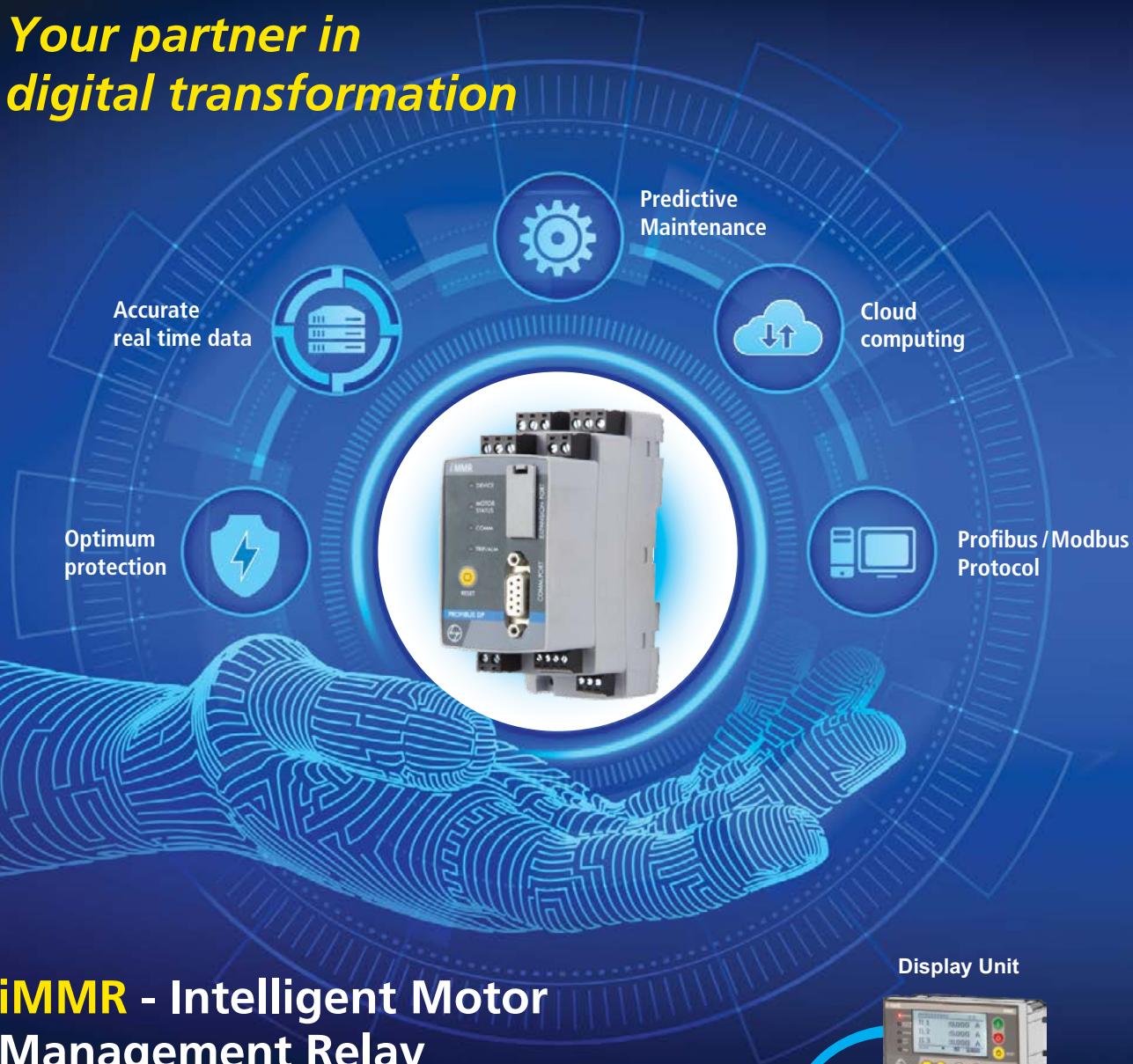
Product	Aux. Supply	CT Secondary	Cat. No.	M.R.P. (₹) Per Unit
**MC2-30M	24 to 110VAC/DC	1 / 5 Ampere Site selectable	MC230MA000	140000
	80 to 220VAC/DC		MC230MBO00	140000
**MC2-30MW	24 to 110VAC/DC	1 / 5 Ampere Site selectable	MC230MWAO0	150000
	80 to 220VAC/DC		MC230MWBO0	150000

** MC2-30M & MC2-30MW are long lead items. Contact nearest branch for delivery schedule & technical specs before ordering.

* Available till stock last



**Your partner in
digital transformation**



Intelligent MCC's for enhanced plant efficiency and safety

TI - Motor Control Center

- Modular MCC's designed as per IEC 61439-1 & 2
- Internal arc resistance design of 70kA- 500msec.

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"

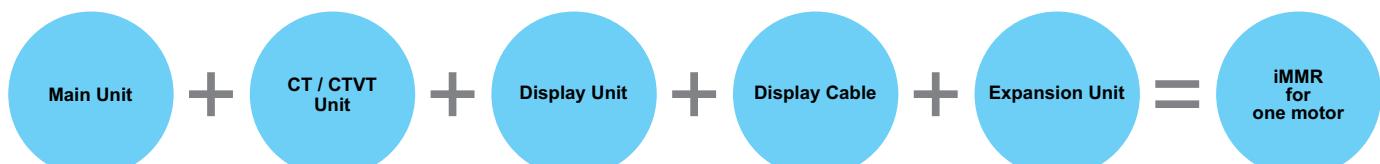
Features

- 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
- Modbus RTU, Modbus TCP/IP and Profibus-DP protocols available for seamless integration with DCS/PLC

Product	Description	Cat. No.	M.R.P. (₹) Per Unit
Main Unit	iMMR MODBUS RTU 85-265 VAC/DC	CS912440000	17800
	iMMR PROFIBUS-DP 85-265 VAC/DC	*Available On Request	
	iMMR MODBUS TCP/IP 85-265 VAC/DC	*Available On Request	
CT Unit	CT1 (0.3-3A) with 15 cm cable	CS912450000	4750
	CT2 (2.5-25A) with 15 cm cable	CS912460000	6300
	CT3 (7-70A) with 15 cm cable	CS912470000	10000
CTVT Unit	CT1 (0.3-3A) + VT with 15 cm cable	CS912490000	11000
	CT2 (2.5-25A) + VT with 15 cm cable	CS912500000	13000
	CT3 (7-70A) + VT with 15 cm cable	CS912510000	17000
Display Unit	iMMR Display unit without cable	CS912530000	10000
Display Cable	iMMR Display Cable - 1 meter	XK131280000	1000
	iMMR Display Cable - 2 meter	XK131290000	1500
Expansion Unit	4DI + 2DO with 10 cm cable	*Available On Request	
	Earth Leakage + 2DI + 2DO with 10 cm cable	*Available On Request	
	2AI + 1AO with 10 cm cable	*Available On Request	

* Please contact our nearest branch for details

iMMR selection guide



Select **Main Unit** based on required communication protocol.

For Current based protection select **CT Unit**.
For Current & Voltage based protection select **CTVT Unit**.

Select a panel mounted **Display Unit & Cable** for monitoring and parametrization.

Add up to 5 **Expansion Unit** based on DI/DO & AI/AO requirement.

Complete package selection of **iMMR**.



Cat.no. selection guide

Modbus RTU communication and Current based protection and metering

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

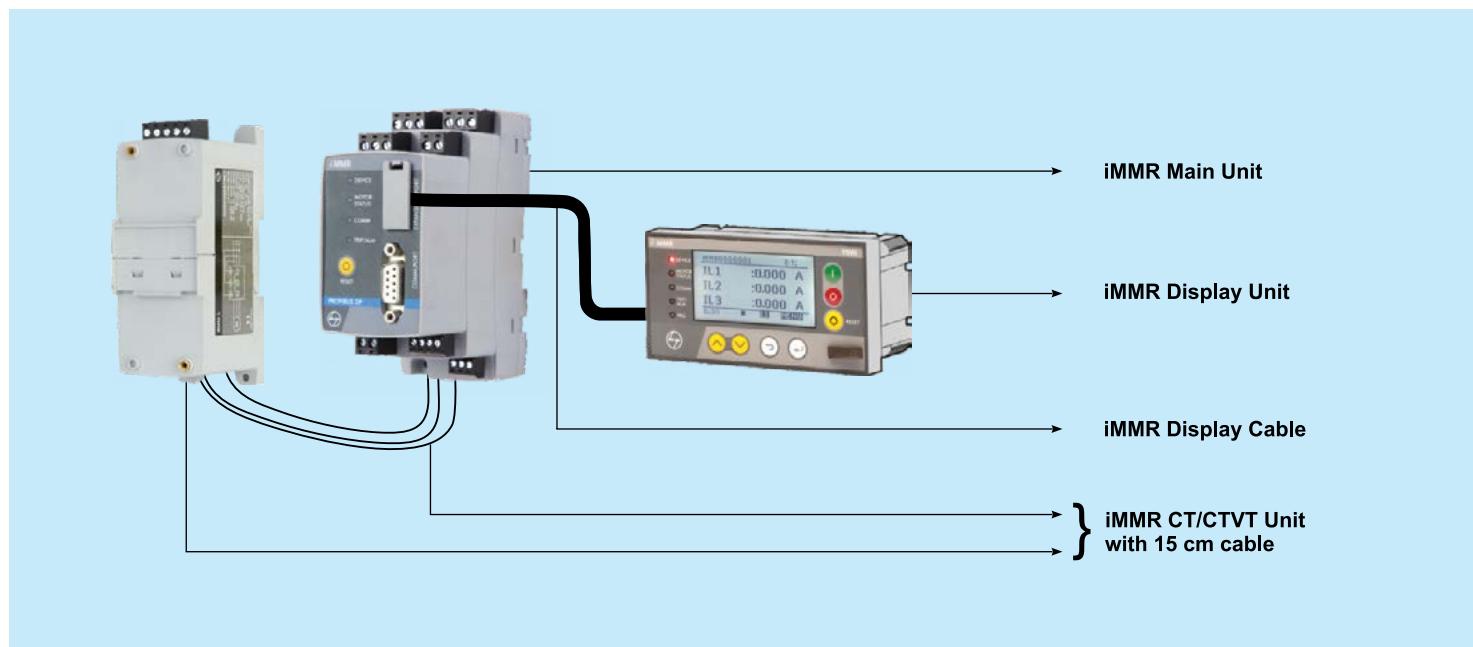
* with External Protection class CT's of -/5Amp

Modbus RTU communication and Current + Voltage based protection and metering

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

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

Selection guide



Motor Protection Circuit Breakers [8536]

Rocker Type

- MOG-S1: upto 32A
- Short circuit + Overload protection
- Icu=100kA upto 10A, Icu=50kA for 13A & Icu=25kA for 16-32A

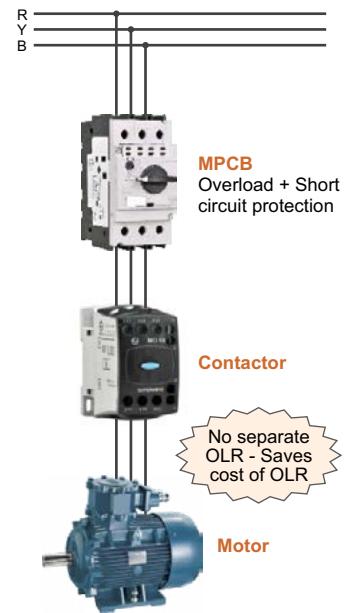
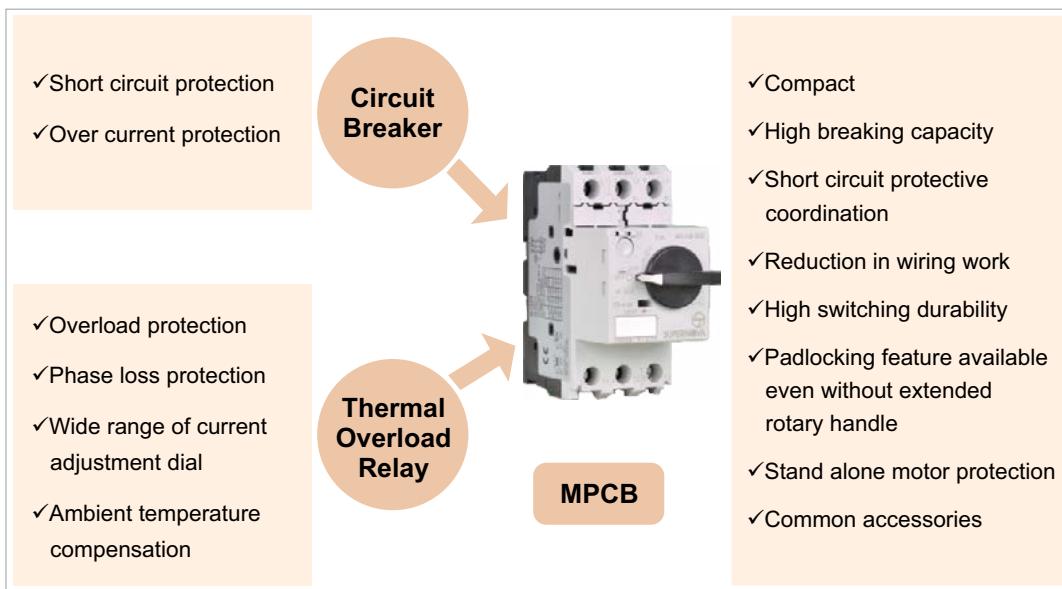
Rotary Type

- MOG-H1M: upto 32A
- MOG-H2M: 32A-63A
- Short circuit protection
- Icu=100kA upto 13A & Icu=50kA from 16A-63A

Rotary Type

- MOG-H1: upto 32A
- MOG-H2: 32A-63A
- Short circuit + Overload protection
- Icu=100kA upto 13A & Icu=50kA from 16A-63A

Rocker type and Rotary Type Motor Protection Circuit Breaker conforms to IEC 60947-4-1 & 60947-2



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	2870	1
0.25	0.06	0.16 - 0.25	3.3	ST418900000	2870	1
0.40	0.09	0.25 - 0.40	5.2	ST418910000	2870	1
0.63	0.12	0.40 - 0.63	8.2	ST418920000	3260	1
1.00	0.25	0.63 - 1.00	13	ST418930000	3260	1
1.60	0.55	1.00 - 1.60	20.8	ST418940000	3280	1
2.50	0.75	1.60 - 2.50	32.5	ST418950000	3280	1
4.00	1.50	2.50 - 4.00	52	ST418960000	3400	1
6.30	2.20	4.00 - 6.30	81.9	ST418970000	3400	1
10.00	4.00	6.30 - 10.00	130	ST418980000	3630	1
13.00	5.40	9.00 - 13.00	169	ST418990000	4090	1
16.00	7.50	11.00 - 16.00	208	ST419000000	4470	1
20.00	9.00	14.00 - 20.00	260	ST419010000	4700	1
25.00	12.50	19.00 - 25.00	325	ST419020000	4940	1
32.00	15.00	24.00 - 32.00	416	ST419030000	8790	1

Breaking capacity: Icu = 100kA upto 10A, Icu = 50kA for 13A & Icu = 25kA for 16-32A

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	3650	1
0.25	0.06	0.16 - 0.25	3.3	ST419050000	3650	1
0.40	0.09	0.25 - 0.40	5.2	ST419060000	3650	1
0.63	0.12	0.40 - 0.63	8.2	ST419070000	4080	1
1.00	0.25	0.63 - 1.00	13	ST419080000	4080	1
1.60	0.55	1.00 - 1.60	20.8	ST419090000	4210	1
2.50	0.75	1.60 - 2.50	32.5	ST419100000	4210	1
4.00	1.50	2.50 - 4.00	52	ST419110000	4290	1
6.30	2.20	4.00 - 6.30	81.9	ST419120000	4330	1
10.00	4.00	6.30 - 10.00	130	ST419130000	4610	1
13.00	5.40	9.00 - 13.00	169	ST419140000	5110	1
16.00	7.50	11.00 - 16.00	208	ST419150000	5500	1
20.00	9.00	14.00 - 20.00	260	ST419160000	5930	1
25.00	12.50	19.00 - 25.00	325	ST419170000	6170	1
32.00	15.00	24.00 - 32.00	416	ST419180000	10000	1

Breaking capacity: Icu = 100kA upto 13A & Icu = 50kA from 16A - 32A

Motor Protection Circuit Breakers [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	3280	1
0.25	0.06	3.3	ST419240000	3280	1
0.40	0.09	5.2	ST419250000	3280	1
0.63	0.12	8.2	ST419260000	3710	1
1.00	0.25	13	ST419270000	3780	1
1.60	0.55	20.8	ST419280000	3780	1
2.50	0.75	32.5	ST419290000	3810	1
4.00	1.50	52	ST419300000	3850	1
6.30	2.20	81.9	ST419310000	3850	1
10.00	4.00	130	ST419320000	3970	1
13.00	5.40	169	ST419330000	4150	1
16.00	7.50	208	ST419340000	4150	1
20.00	9.00	260	ST419350000	4360	1
25.00	12.50	325	ST419360000	4490	1
32.00	15.00	416	ST419370000	7390	1

Breaking capacity: Icu = 100kA upto 13A & Icu = 50kA from 16A - 32A

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	12800	1
40.00	20.00	28.00 - 40.00	520	ST419200000	14100	1
50.00	25.00	35.00 - 50.00	650	ST419210000	17600	1
63.00	34.00	45.00 - 63.00	819	ST419220000	17900	1

Breaking capacity: Icu = 50kA from 32A - 63A

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	12300	1
40.00	20.00	520	ST419390000	12400	1
50.00	25.00	650	ST419400000	12700	1
63.00	34.00	819	ST419410000	13000	1

Breaking capacity: Icu = 50kA from 32A - 63A

Accessories for MOG [8538]



Short Circuit Alarm



Auxiliary + Alarm



Extended Rotary Handle



Shunt Trip



MPCBs 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	565	10	
F1/F2	Auxiliary Contact Front mtg. 1NC	ST419430000	565	10	
L	Auxiliary Contact Left side mtg. 2NO	ST419440000	780	1	
L	Auxiliary Contact Left side mtg. 1NO + 1NC	ST419450000	780	1	
L	Auxiliary Contact Left side mtg. 2NC	ST419460000	780	1	
F2	Trip Alarm Contact Front mtg. 1NO	ST419470000	1010	10	
F2	Trip Alarm Contact Front mtg. 1NC	ST419480000	1010	10	
L	Auxiliary + Alarm Left side mtg. 2NO	ST419490000	1070	1	
L	Short circuit alarm Left side mtg. 1NO + 1NC	ST419500000	1070	1	
R	Shunt trip 24V DC	ST419510000	2060	1	
R	Shunt trip 110V, 50Hz	ST419520000	2170	1	
R	Shunt trip 230V, 50Hz	ST429520000	2170	1	
R	Under Voltage release, 110V, 50Hz	ST419530000	2170	1	
R	Under Voltage release, 415V, 50Hz	ST419540000	2170	1	
-	External operating handle, (Black) Frame 1	ST419550000	1250	1	
-	External operating handle, (Black) Frame 2	ST419560000	1250	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 MPCB 45 mm width w/o acc		ST419570000	655	5
3 MPCB 45 mm width w/o acc		ST419580000	720	5
4 MPCB 45 mm width w/o acc		ST419590000	775	5
5 MPCB 45 mm width w/o acc		ST419600000	990	5
2 MPCB 45 mm width with one acc 9 mm		ST419610000	765	5
3 MPCB 45 mm width with one acc 9 mm		ST419620000	825	5
4 MPCB 45 mm width with one acc 9 mm		ST419630000	890	5
5 MPCB 45 mm width with one acc 9 mm		ST419640000	950	5
2 MPCB 55 mm width w/o acc		ST419660000	1190	1
3 MPCB 55 mm width w/o acc		ST419670000	1360	1
4 MPCB 55 mm width w/o acc		ST419680000	1630	1
2 MPCB 55 mm width with one acc 9 mm		ST419690000	1300	1
3 MPCB 55 mm width with one acc 9 mm		ST419700000	1470	1
4 MPCB 55 mm width with one acc 9 mm		ST419710000	1740	1
2 MPCB 55 mm width with two acc 18 mm		ST419720000	1520	1
4 MPCB 55 mm width with two acc 18 mm		ST419730000	1690	1
Feed in terminal for 45 mm width Busbar		ST419650000	765	1
Feed in terminal for 55 mm width Busbar		ST419740000	1320	1
Bus bar safety cover 45 mm width Busbar		ST419750000	330	10
Bus bar safety cover 55 mm width Busbar		ST419760000	355	10

acc: Accessories

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



MN 45



ML 3

Max. Motor Output at 415V, 3-Ph HP kW	Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
10.0 7.5	9 - 15	MN 16 DOL	SS94351	4940	1
15.0 11.0	14 - 23	MN 25 DOL	SS94352	7540	1
20.0 15.0	20 - 33	MN 32 DOL	SS94353	12200	1
30.0 22.5	30 - 50	MN 45 DOL	SS94017	20800	1
45.0 33.5	45 - 75	MN 65 DOL	SS94018	28500	1
30.0 22.5	28 - 42	ML 3 DOL	SS90722	25600	1

Fully Automatic Star-Delta Starters [8536]



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

MN 16F

Max. Motor Output at 415V, 3-Ph HP kW	Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
17.5 13.0	9 - 15	MN 16 FASD	SS94362	16600	1
30.0 22.5	14 - 23	MN 25 FASD	SS94364	18600	1
40.0 30.0	20 - 33	MN 32 FASD	SS94366	30600	1
50.0 37.5	30 - 50	MN 45 FASD	SS94021	49100	1
75.0 55.0	45 - 75	MN 65 FASD	SS94022	81400	1
90.0 67.5	45 - 75	MN 80 FASD	SS94705	88900	1
150.0 110.0	66 - 110	MN 110 FASD	SS94706	116400	1
180.0 132.0	90 - 150	MN 140 FASD	SS94707	121900	1
50.0 37.5	28 - 42	ML3 FASD	SS90730	61700	1
75.0 55.0	45 - 75	ML4 FASD	SS90913	105700	1
125.0 90.0	66 - 110	ML6 FASD	SS90923	173300	1

Spares for MN Starters [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Bracket for Mounting cont. MNX 25 - 32	SS940300000	155	20
MN DOL/FASD Push Button	SS939410000	265	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	1960	1
12 - 120 secs.	ST803290000	1960	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.

Ordering Suffix for ML & MN Starters

Coil Voltages	ML Relay Range (A)	MN Relay Range (A)
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	



Selection as per Type 2 Co-ordination

All our type 2 charts are available on **Knowledge Portal & ProductWhiz**.



Access E&A's Knowledge Portal from
www.intebg.com/KP



L&T Electrical & Automation,
ESP BizWhiz and ProductWhiz from
Google Play Store/Apple App Store

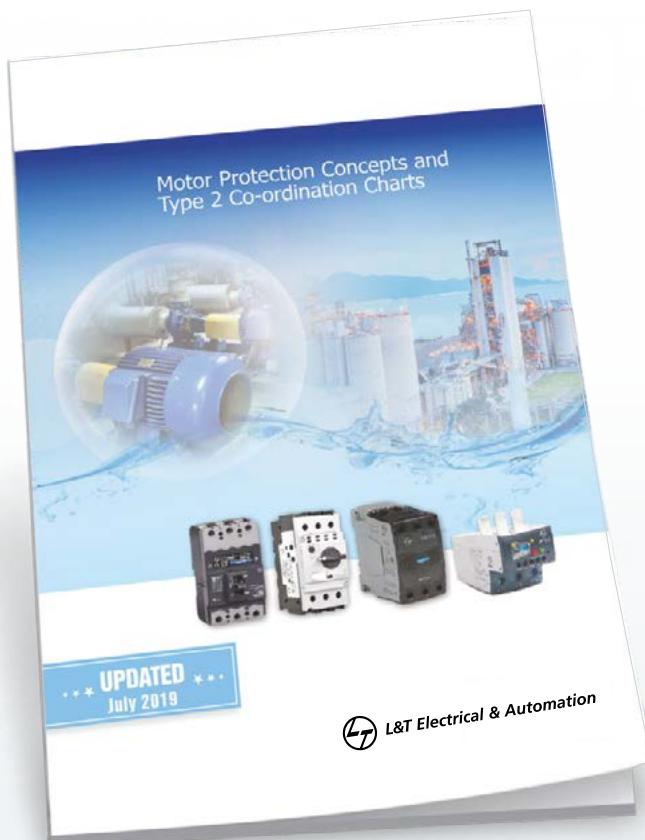
Following combination of Type 2 Charts available

Fuse Based Charts		Fuseless Charts			
IE2/IE3	IE2/IE3	IE2	IE2	IE3	IE3
DOL	SD	DOL	SD	DOL	SD
FN	FN	MPCB/MCCB	MPCB/MCCB	MPCB/MCCB	MPCB/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



DIGITAL SINGLE PHASE CONTROLLER

The power of flexibility and versatility



Basic version

FEATURES

Auto version

- Microcontroller Based Solution
- Dry Run Protection
- UV/OV Protection
- Current, Voltage Metering
- & Periodic Display
- Start & Run Capacitor
- Bypass Mode (For bore cleaning)
- Off Timer
- Digital Display
- Capacitor cut-off
- Water Tank Status Indication
- Automatic Current Setting

- All features of Basic Version
- Inbuilt Water Level Controller
- Water tank status indication
- 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
- Timer Compensation

• Refer Agricultural Electrical Product Pricelist for Agricultural Electrical Product Range



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Digital Enabled Smart Agriculture



- * Digital Products for effective monitoring & remote operation
- * Agri products for all seasons and all crops
- * Complete protection from all faults
- * Maintenance free product life

* Refer Agricultural Electrical Product Pricelist for Agricultural Electrical Product Range



**Complete your panel
with our
panel accessories**

			
Rotary Switches & Cable Ducts	Timing Devices & Supply Monitors	Modular Remote Control Units	Digital Panel Meters

For Cam operated Rotary switches, Cable ducts, Load break switches, Timers, Time switches, Supply monitors, Ø22.5 mm range of Modular remote control & Indicating units please refer Panel Accessories Price List.

For Digital Panel Meter details please refer Pg.76



Enclosed Automatic Transfer Switch

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	CK90161BSOO	80200	1
Enclosed ATS, Frame 2, 160A	160A	CK90162BSOO	88500	1
Enclosed ATS, Frame 2, 200A	200A	CK90163BSOO	95900	1
Enclosed ATS, Frame 3, 250A	250A	CK90164BSOO	109600	1
Enclosed ATS, Frame 3, 315A	315A	CK90165BSOO	117200	1
Enclosed ATS, Frame 4, 400A	400A	CK90166BSOO	129900	1
Enclosed ATS, Frame 4, 630A	630A	CK90167BSOO	157800	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]

Changover 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	-	-	-	-	CK90944BOOO	24300	1
	63	CO1-63	CO106300000	5390	CO10630OSOO	8320	CK90945BOOO	25800	1
	63	CO1-63	CO10630000D ▲	5300	CO11000OSOO	10500	CK90946BOOO	31500	1
	100	CO1-100	CO110000000	7140	CO11250OSOO	13400	CK90947BOOO	33500	1
	100	CO1-100	CO11000000D ▲	6880					
	125	CO1-125	CO112500000	9290					
Fr 2	125	CO2-125	CO212500000	11100	CO21250OSOO	15900	CK90161BOOO	40900	1
	160	CO2-160	CO216000000	12100	CO21600OSOO	17300	CK90162BOOO	50000	1
	200	CO2-200	CO220000000A	14700	CO22000OSOO	19900	CK90163BOOO	54500	1
Fr 3	250	CO3-250	CO325000000	20600	CO32500OSOO	27000	CK90164BOOO	67200	1
	315	CO3-315	CO331500000	21600	CO33150OSOO	28400	CK90165BOOO	70300	1
Fr 4	400	CO4-400	CO440000000	31800	CO44000OSOO	41400	CK90166BOOO	83100	1
	630	CO4-630	CO463000000	37100	CO46300OSOO	48000	CK90167BOOO	99200	1
Fr 5	630	CO5-630 ^α	CO563000000 ^α	44100	-	-	CK90168BOOO	106700	1
	800	CO5-800	CO580000000	52900	CO58000OSOO	77700	CK90169BOOO	142700	1
	1000	CO5-1000	CO510000000	94400	CO51000OSOO	125800	CK90170BOOO	187100	1
Fr 6	1250	CO6-1250	CO612500000	126600	-	-	CK90081BOOO	231200	1
	1600	CO6-1600	CO616000000	149700	-	-	CK90082BOOO	283800	1
	2000	CO6-2000	CO620000000	230300	-	-	CK90083BOOO	338500	1

▲ Direct handle version

Sheet Steel Enclosure version is with CO with extended handle

α Fuse mounting kit CX56300OODO is suitable for mounting on CO5-630 Changeover Switch

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

β Chapter ID [9032]

Spares & Accessories for Changeover S-D [8538]

Auxiliary Contact	Operating Handle (63A to 200A)	Flip-able Handle (250A to 2000A)	Castell Type Lock
Auxiliary Contact Kit (2 sets of C/O contact)	CO1-(63-125A)	CX100020000	470
	CO2-(125-200A)	CX200020000	890
	CO3-(250-315A)	CX300020000	1270
	CO4-(400-630A)	CX400020000	1350
	CO5-(630-1000A)	CX500020000	1530
	CO6-(1250-2000A)	CX600020000	1700
Operating Handle Kit (handle + shaft + center bush + bush clip)	CO1-(63-125A)	CX100010000	780
	CO2-(125-200A)	CX300010000	1590
	CO3-(250-315A)	CK903920000	1690
	CO4-(400-630A)	CX400010000	1730
	CO5-(630-1000A)	CX500010000	1860
Operating Handle	CO6-(1250-2000A)	CX600010000	2110
Castell Type Lock\$	CO-(125-1000A)	CX400040000	2790
	CO6-(1250-2000A)	CX600040000	2790
Output shorting link	CO1-(63-125A) Top Side	CX10005000T	820
	CO1-(63-125A) Bottom Side	CX10005000B	820
Operating Handle for Motorised Changeover	C/O Frame 2 & 3 (125-315A)	CK903740000	1480
	C/O Frame 4 & 5 (400-1000A)	CK903780000	1860
	C/O Frame 6 (1250-2000A)	CK906450000	4620

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



Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Automatic Transfer Controllers	AST Controller with wire harness	CK901920000	19800	1
	AuXC - 2000 Controller** with wire harness	ATC20000000	31600	1
Control Accessories	Illuminated Push Button assembly with Wire harness	CK900990000	4040	1

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	CX10630OC0	2500	1
	HN Size 000	CO2-125	CX21250OODO	4880	1
	HN Size 00	CO2-160	CX21600OODO	6930	1
	HN Size 1	CO3-250	CX32500OODO	9480	1
	HN Size 1	CO3-315	CX33150OODO	9920	1
	HN Size 2	CO4-400	CX44000OODO	14200	1
	HN Size 3	CO5-630	CX56300OODO	28700	1
	HN Size 3	CO5-800	CX58000OODO	32600	1

\$ Chapter ID [8301]





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



Phase Barriers

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



Suitable for Aluminum Termination

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



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



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.



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	17200	1
CZ1	160A	CK908140000	19400	1
CZ1	200A	CK908150000	20500	1
CZ1	250A	CK908160000	29200	1
CZ1	315A	CK908170000	33300	1
CZ2	315A	CK908750000	36800	1
CZ2	400A	CK908760000	44900	1
CZ2	630A	CK908770000	53500	1

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	510	1

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

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Chapter ID [8536]

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

Tcpqgnl q8 47 . T-6 . . T_az/ . . Tba z/ 3 . . Tba

Typical Applications



Switching of feeders in power distribution network



Switching of Machinery/Motors



VFD panels for switching and isolation of VFD (AC as well DC)



Isolation in String Inverter as well as Central Inverter Solar Systems



Battery Charging

4P AC Switch Disconnector					
Frame	Rating 690V, AC 23A	Handle Type	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	Extended	CK907690000	7400	1
CZ1	160A	Extended	CK907700000	9350	1
CZ1	200A	Extended	CK907710000	10890	1
CZ1	250A	Extended	CK907720000	12840	1
CZ1	315A	Extended	CK907730000	13600	1
CZ2	315A	Extended	CK908570000	15090	1
CZ2	400A	Extended	CK908580000	19310	1
CZ2	630A	Extended	CK908590000	24200	1
CZ1	125A	Direct	CK907990000	7100	1
CZ1	160A	Direct	CK908000000	8930	1
CZ1	200A	Direct	CK908010000	10350	1
CZ1	250A	Direct	CK908020000	12200	1
CZ1	315A	Direct	CK908030000	12920	1
CZ2	315A	Direct	CK908720000	14340	1
CZ2	400A	Direct	CK908730000	18340	1
CZ2	630A	Direct	CK908740000	22990	1

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4P AC Switch Disconnector in SS enclosure (with extended handle)				
Frame	Rating 690V, AC 23A	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	CK908190000	13320	1
CZ1	160A	CK908200000	15430	1
CZ1	200A	CK908210000	17420	1
CZ1	250A	CK908220000	19900	1
CZ1	315A	CK908230000	21080	1
CZ2	315A	CK908780000	24900	1
CZ2	400A	CK908790000	29160	1
CZ2	630A	CK908800000	34120	1

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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	510	1

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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



Dawn of a New Era...



CZ Switch Disconnectors

- 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



AC SD

► Operational Voltage upto 800Vac



DC SD

► Operational Voltage 1000Vdc & 1500Vdc

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	*

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DC Switch Disconnectors

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

Chapter ID [8536]

*Available on Request

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



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	2810	1	FN 32 TPN/FP	SK95518	2810	1
	32	HF Size 14x51	2 to 32	FN 32 TPN / FP CE*	SK95703*	2460	1	FN 32 TPN/FP CE*	SK95703*	2460	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP	SK95421	3730	1	FN 63 TPN/FP	SK95421	3730	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP CE*	SK95704*	3330	1	FN 63 TPN/FP CE*	SK95704*	3330	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	SK95568	7070	1	FN 100 FP	SK90496	8040	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	SK95001	9160	1	FN 125 FP	SK90497	10000	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	SK95713	9860	1	FN 160 FP	SK90498	11200	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	SK95418	13300	1	FN 200 FP	SK90471	16000	1
	250	HN Size 1	125 to 250	FN 250 TPN	SK95642	15200	1	FN 250 FP	SK90472	18300	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	SK95461	18200	1	FN 315 FP	SK90473	22200	1
	400	HN Size 2	200 to 400	FN 400 TPN	SK95481	22000	1	FN 400 FP	SK90480	24500	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	SK95521	36800	1	FN 630 FP	SK90481	41300	1
	800	HN Size 3	315 to 800	FN 800 TPN	SK95679	39600	1	FN 800 FP	SK90482	46500	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*	6480	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP CE*	SK90484*	7740	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	SK90485	12700	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	SK90486	14400	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	SK90487	15100	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	SK90488	21600	1
	250	HN Size 1	125 to 250	FN 250 TPN	SK90489	23800	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	SK90490	27500	1
	400	HN Size 2	200 to 400	FN 400 TPN	SK90491	30900	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	SK90492	48000	1
	800	HN Size 3	315 to 800	FN 800 TPN	SK90493	51000	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. SK90489OOOO & SK95681OOOO), order Cat. No. ST97895OOOO
- 6) Please refer Pg. 34 for Switch-Disconnectors
- 7) Add suffix "OOOO" 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

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	2210	1	
	63	HF Size 14x51	FN 63 2P	SK95595	3070	1	
Fr 2	100	HN Size 000/00	FN 100 2P	ST35086	5410	1	
	125	HN Size 000/00	FN 125 2P	ST35087	7730	1	
	160	HN Size 000/00	FN 160 2P	ST35088	8060	1	
Fr 3	200	HN Size 0	FN 200 2P	ST35089	10200	1	
	250	HN Size 1	FN 250 2P	ST31674	12200	1	
Fr 4	315	HN Size 1	FN 315 2P	ST38930	15100	1	
	400	HN Size 2	FN 400 2P	ST31676	17000	1	
Fr 5	630	HN Size 3	FN 630 2P	ST35090	28500	1	

*Add suffix "OOOO" to all cat nos.

Type FN S-D-F suitable for BS fuse-link (TPN) in open execution

For BOLTED fuse-link

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



FN - TPN S-D-F

Size	Rated Current (A)	Suitable fuse-link type	Type FN (TPN) S-D-F suitable for BOLTED fuse-link			Std. Pkg (Nos.)	
			Open Execution				
			Type	Cat. No.	M.R.P. (₹) Per Unit		
Fr 1	32	A1L	FN 32 TPN	SK95653	2620	1	
	63	A1L	FN 63 TPN	SK95651	3530	1	
Fr 2	100	A4	FN 100 TPN	SK95570	6930	1	
	125	A4	FN 125 TPN	SK95009	8840	1	
	160	A4	FN 160 TPN	SK95714	9620	1	
Fr 3	200	B1 / B2	FN 200 TPN	SK95588	13100	1	
	250	B2 / B3	FN 250 TPN	SK95682	15100	1	
Fr 4	315	B3	FN 315 TPN	SK95590	18100	1	
	400	B4	FN 400 TPN	SK95591	21700	1	
Fr 5	630	C2	FN 630 TPN	SK95592	36600	1	

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



FNX TPN S-D-F



in-built Neutral Link

FNX 4P S-D-F

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	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	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	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	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	1
	800	HN Size 3	315 to 800	FNX 800 TPN	SK95813	*	1	FNX 800 FP	SK95821	*	1	

* Available on request

Notes : 1) For 690V AC application, please contact nearest branch office.

2) The prices for S-D-F range are without HRC fuses

3) Add suffix "OOOO" 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



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	146	30
	4		SF90145	146	30
	6		SF90146	146	30
	8		SF90147	146	30
	10		SF90148	146	30
	16		SF90150	146	30
	20		SF90151	146	30
	25		SF90152	146	30
	32		SF90142	146	30
	40	Suitable for Type FN 63 / FNX 63 S-D-F & for HC 63 Fuse base	SF90143	160	30
	50		SF90158	355	30
	63		SF90159	430	30

DIN Type Fuse Links Type HN



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	460	3
	80		SF94941	475	3
	100		SF94942	490	3
	125		SF94946	535	3
00	63	Suitable for Type FN 100/125/160 / FNX 125/160 S-D-F & for HB 160 Fuse base	SF94027	585	3
	80		SF94028	585	3
	100		SF94029	585	3
	125		SF94030	600	3
	160		SF94939	615	3
0	80	Suitable for Type FN 200 / FNX 200 S-D-F & for HB 250 Fuse base	SF94128	750	3
	100		SF94129	750	3
	125		SF94130	750	3
	160		SF94131	760	3
	200		SF94132	795	3
1	125	Suitable for Type FN 250/315 / FNX 250/315 S-D-F & for HB 250 Fuse base	SF94230	800	3
	160		SF94231	815	3
	200		SF94232	860	3
	250		SF94233	905	3
	315		SF94234	1120	3
2	200	Suitable for Type FN 400 / FNX 400 S-D-F & for HB 800 Fuse base	SF94332	1165	3
	250		SF94333	1170	3
	315		SF94334	1230	3
	400		SF94335	1255	3
3	315	Suitable for Type FN 630/800 / FNX 630/800 S-D-F & for HB 800 Fuse base	SF94434	1750	1
	400		SF94435	1845	1
	500		SF94436	1895	1
	630		SF94437	1995	1
	800		SF94938	2470	1

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

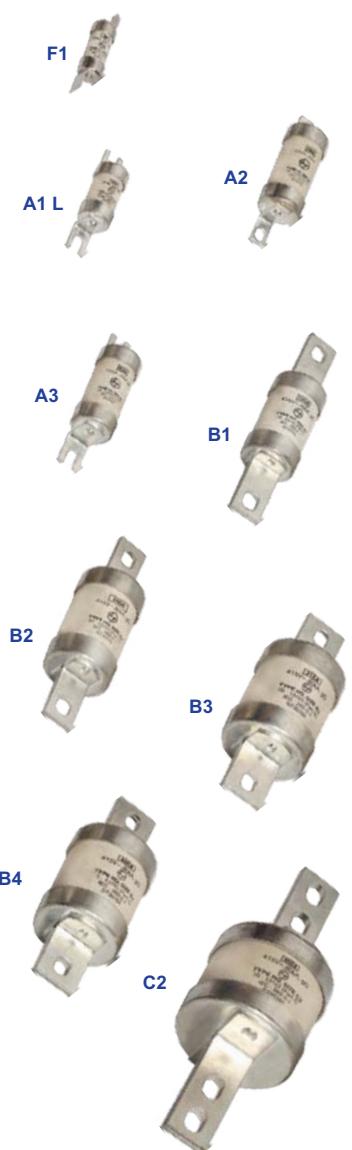


Rated Current (A)	Type	Description	Suitable fuse-link		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
			Type	Range (A)			
32	HCO 32	Fuse holder	HF	2-32	SK91314	290	10
63	HC 63	Fuse holder	HF	2-63	SK91043	325	10
160	HB 160	Fuse base	HN-Size 000 & 00	63-160	SK90405	435	12
250	HB 250	Fuse base	HN-Size 0 & 1	80-250	SK90406	965	3
800	HB 800	Fuse base	HN-Size 2 & 3	200-800	SK91051	1885	3

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



HRC Fuses [8536]



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	61	24	
			4		ST30726	61	24	
			6		ST30727	61	24	
			10		ST30728	61	24	
			16		ST30729	71	24	
			20		ST30730	71	24	
			25		ST30731	76	24	
			32		ST30732	76	24	
HQ	Offset	A1L	20	Suitable for type FN 32/63 S-D-F	ST34527	120	15	
			25		ST34528	120	15	
			32		ST34529	120	15	
			50		ST35827	150	15	
			63		ST35828	150	15	
		A2	4		ST30747	105	12	
			6		ST30748	105	12	
			10		ST30749	105	12	
HQ	Offset		16		ST30750	105	12	
			20		ST30751	105	12	
			25		ST30752	105	12	
			32		ST30753	105	12	
	A3	35	Suitable for type HK 63B/63H Fuse base	ST30759	155	12		
		50		ST30760	165	12		
		63		ST30761	175	12		
HQ	Offset	A4	80	Suitable for type FN 100/125/160 S-D-F & for HK 125H/125B Fuse base	ST30767	335	12	
			100		ST30768	335	12	
			125		ST30769	385	12	
			160		ST35829	440	12	
		B1	80		ST30774	380	12	
			100		ST30775	380	12	
			125		ST30776	460	12	
HQ	Offset	B2	125	Suitable for type FN 200/250 S-D-F	ST30777	480	3	
			160		ST30778	485	3	
			200		ST30779	525	3	
		B3	250	Suitable for type FN 250/315 S-D-F	ST30781	780	3	
			315		ST30782	805	3	
		B4	355	Suitable for type FN 400 S-D-F	ST30783	1130	3	
			400		ST30784	1170	3	
HQ	Centre Tag, 2 holes	C2	400	Suitable for type FN 630 S-D-F	ST30785	2210	1	
			500		ST30786	2330	1	
			630		ST30787	2650	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	165	12
	HD 20P	Both side busbar (Back)	F1	2-20	ST30773	245	12
	HD 20B	Top busbar & bottom cable	F1	2-20	ST30766	225	12
32	HD 32H	Both side cable (Front)	F1	2-32	ST30733	180	12
	HD 32P	Both side busbar (Back)	F1	2-32	ST30734	250	12
	HD 32B	Top busbar & bottom cable	F1	2-32	ST30735	240	12
	HK 32H	Both side cable (Front)	A2	4-32	ST30754	305	12
	HK 32B	Top busbar & bottom cable	A2	4-32	ST30755	370	12
63	HK 63H	Both side cable (Front)	A3	35-63	ST30762	390	6
	HK 63B	Top busbar & bottom cable	A3	35-63	ST30763	470	6
125	HK 125H	Both side cable (Front)	A4	80-125	ST30770	1120	3
	HK 125B	Top busbar & bottom cable	A4	80-125	ST30771	1295	3

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

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	2070	1	FN 32 TPN / 4P	SK955410000	2720	1
	63	FN 63 2P	SK904190000	2590	1	FN 63 TPN / 4P	SK955400000	3270	1
Fr 2	100	FN 100 2P	SK904200000	4670	1	FN 100 TPN	SK955710000	6020	1
	125	FN 125 2P	SK904210000	5840	1	FN 125 TPN	SK954050000	7590	1
Fr 3	200	FN 200 2P	SK904500000	9580	1	FN 200 TPN	SK956070000	11600	1
	250	FN 250 2P	SK904540000	10400	1	FN 250 TPN	SK956830000	13100	1
Fr 4	315	FN 315 2P	SK904650000	13700	1	FN 315 TPN	SK956090000	15500	1
	400	FN 400 2P	SK904660000	15000	1	FN 400 TPN	SK956100000	18300	1
Fr 5	630	FN 630 2P	SK904670000	24500	1	FN 630 TPN	SK956110000	29000	1
	800	FN 800 2P	SK904680000	26300	1	FN 800 TPN	SK955510000	31100	1
	1000	FN 1000 2P	SK904690000	33900	1	FN 1000 TPN	SK957100000	49300	1
Fr 6	1000	-	-	-	-	C-Line SD 1000 4P\$	COS1000OO4O	56300	1
	1250	-	-	-	-	C-Line SD 1250 4P\$	COS1250OO4O	70200	1
	1600	-	-	-	-	C-Line SD 1600 4P\$	COS1600OO4O	88400	1
	2000	-	-	-	-	C-Line SD 2000 4P\$	COS2000OO4O	113700	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]



Castell Type Lock



DIN Rail Assembly



Auxiliary Contact Kit



Handle Assembly

Spares & Accessories for type FN [8538]



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

* Available on request

Fuse pulling handle [8538]



For Type HN fuse-link



For Type HF fuse-link

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse pulling handle for HF Fuse-link from 2A-63A	SK91185	230	1
Insulated fuse pulling handle for Type HN fuse-link from 63A-800A	SF90126	820	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	985	1
Operating Handle	CXS6001	2110	1
Castell Type Lock\$	CX60004	2790	1

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

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

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





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Features

Range: 20A to 1250A
Breaking capacity: 25/36/50/70/100kA
Variants: 3P/4P

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 **-DZ MCCBs**



Features

Range: 16A to 800A
Breaking capacity: 36/50/80/120/200kA
Operating Voltage: 415/690/800V AC
Variants: 3P/4P
Plug-in available from: 16A to 800A
Drawout available from: 250A to 800A
Motor Operator available from: 16A to 800A

Our new  -DZ range offers wide range of adjustable overload and short circuit setting with range of internal and external accessories



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												DY125U		DY250U1	
18												DU100D		DU125D	
25															
30												DU100H		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)	EM90982OOBO	1830	AC : 10kA @ 415V AC, 50 Hz/60 Hz DC : 10kA @ 250V DC (3P in series)	EM90983OOBO	2290	EM90984OOBO	3070	1
	20		EM90982OOOCO	1830		EM90983OOOCO	2290	EM90984OOOCO	3070	1
	25		EM90982OOODO	1830		EM90983OOODO	2290	EM90984OOODO	3070	1
	32		EM90982OOEO	1830		EM90983OOEO	2290	EM90984OOEO	3070	1
	40		EM90982OOFO	1830		EM90983OOFO	2290	EM90984OOFO	3070	1
	50		EM90982OOGO	1830		EM90983OOGO	2290	EM90984OOGO	3070	1
	63		EM90982OOHO	1780		EM90983OOHO	2220	EM90984OOHO	2980	1
	80		EM90982OOJO ▲	1960		EM90983OOJO ▲	2500	EM90984OOJO ▲	3450	1
	100		EM90812OOJO	1780		EM90813OOJO	2220	EM90814OOJO	2980	1
	125		EM90982OOKO ▲	1960		EM90983OOKO ▲	2500	EM90984OOKO ▲	3450	1
			EM90812OOOKO	1780		EM90813OOOKO	2220	EM90814OOOKO	2980	1
			EM90982OOOLO ▲	2750		EM90983OOOLO ▲	3670	EM90984OOOLO ▲	4570	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



Shunt Release



Spreader Terminals



Direct ROM



Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary/Trip Alarm Contact			
1C/O	EM909660000	705	1
Shunt Release			
Short Rated 110/240/415V AC	EM90520OMOO	930	1
Under Voltage Release			
240V AC	EM90518BOOO	2820	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole (upto 100A)	CM977850002	285	Set of 4
3 Pole (upto 100A)	CM977850000	435	Set of 6
4 Pole (upto 100A)	CM979210000	685	Set of 8
Rotary Handle			
Direct ROM	EM909690000	1390	1
Extended ROM	EM909700000	2040	1
SS Enclosure			
Size I Enclosure for 3P & 4P	CM909960000	2400	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

Kindly refer page no. 45
for cost effective MCCB for
motor starter application

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	CM90517OOOCO	5020	CM90518OOOCO	6340	1
	20-25		CM90517OOODO	5020	CM90518OOODO	6340	1
	25-32		CM90517OOEO	5020	CM90518OOEO	6340	1
	32-40		CM90517OOFO	5020	CM90518OOFO	6340	1
	40-50		CM90517OOOGO	5020	CM90518OOOGO	6340	1
	50-63		CM90517OOHO	4870	CM90518OOHO	6160	1
	63-80		CM90517OOJO	4870	CM90518OOJO	6160	1
	80-100		CM90517OOOKO	4870	CM90518OOOKO	6160	1
DU125D	100-125		CM90676OOLO	5900	CM90677OOLO	7810	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

For DC application
please refer catalogue

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.	CM97898OOC2	3820	30	CM97894OOC2	5450	CM97933OOC2	7320	1
	20-25		CM97898OOD2	3820		CM97894OOD2	5450	CM97933OOD2	7320	1
	25-32		CM97898OOE2	3820		CM97894OOE2	5450	CM97933OOE2	7320	1
	32-40		CM97898OOF2	3820		CM97894OOF2	5450	CM97933OOF2	7320	1
	40-50		CM97898OOG2	3820		CM97894OOG2	5450	CM97933OOG2	7320	1
	50-63		CM97898OOH2	3710		CM97894OOH2	5290	CM97933OOH2	7110	1
	63-80		CM97898OOJ2	3710		CM97894OOJ2	5290	CM97933OOJ2	7110	1
	80-100		CM97898OOK2	3710		CM97894OOK2	5290	CM97933OOK2	7110	1
DU125H	100-125		CM91198OOLO	5770		CM90678OOLO	6390	CM90679OOLO	8320	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

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O - Right	CM97886OOOO	1100	1
2 C/O - Right	CM97887OOOO	1950	1
Trip Alarm Contact			
1 C/O - Right	CM97888OOOO	1100	1
2 C/O - Right	CM97889OOOO	1950	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM97890OOOO	1880	1
Shunt Release			
24V DC - Left	CM91402O4OO	2180	1
110V AC - Left	CM97883OAOO	2180	1
240/415V AC - Left	CM97883OMOO	2180	1
Under Voltage Release			
240V AC - Left	CM97892BOOO	3620	1



Spreader Terminals



Direct ROM



Extended ROM

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
DU100H - 2 Pole	CM97785OOO2	285	Set of 4
DU125H - 2 Pole	CM91199OOLO	365	Set of 4
DU100D/DU100H - 3 Pole	CM97785OOOO	435	Set of 6
DU125D/DU125H - 3 Pole	CM90687OOLO	565	Set of 6
DU100D/DU100H - 4 Pole	CM97921OOOO	685	Set of 8
DU125D/DU125H - 4 Pole	CM90688OOLO	815	Set of 8
Rotary Handle			
DU100D/DU125D/ Direct ROM	CM97895OOOO	1410	1
DU100H/DU125H Extended ROM	CM97896OOOO	1820	1
DIN rail kit			
DU100D/DU125D/DU100H/DU125H	CM90944OOOO	160	1
SS Enclosure			
Size I Enclosure	CM90996OOOO	2400	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

Kindly refer page no. 46
for cost effective MCCB for
motor starter application

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	CM98195OOOMO ▲	6420	CM98196OOOMO ▲	8820	1
	160-200					CM98195OOONO ▲	7610	CM98196OOONO ▲	9880	1
	200-250					CM98195OOPO ▲	10300	CM98196OOPO ▲	13500	1
DU250C	125-160	-	-	-	25	CM90631OOOMO	8550	CM90634OOOMO	10900	1
	160-200					CM90631OOONO	10300	CM90634OOONO	13100	1
	200-250					CM90631OOPO	11400	CM90634OOPO	15000	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.	CM90905OOOMO	6990	36	CM9806200000	9770	CM98065OOOMO	12100	1
	160-200		CM90905OOONO	8080		CM9806100000	12000	CM98065OOONO	16200	1
	200-250		CM90905OOPO	9050		CM9806000000	13400	CM98065OOPO	17900	1
DU400N	250-320	AC : 65kA @ 240V AC, 50Hz DC : 15kA for DU250 @ 250V DC & 25kA for DU400N @ 250V DC, (2P in Series) L/R < 15 msec.	CM90886OOQO	16400	50	CM9840200QO	20400	CM98404OOQO	25000	1
	320-400		CM90886OORO	16400		CM984020ORO	20400	CM98404OORO	25000	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.)
Auxiliary Contact			
1 C/O - Right	CM97886OOOO	1100	1
2 C/O - Right	CM97887OOOO	1950	1
Trip Alarm Contact			
1 C/O - Right	CM97888OOOO	1100	1
2 C/O - Right	CM97889OOOO	1950	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM97890OOOO	1880	1
Shunt Release			
24V DC - Left	CM91402O4OO	2180	1
110V AC - Left	CM97883OAOO	2180	1
240/415V AC - Left	CM97883OMOO	2180	1
Under Voltage Release			
240V AC - Left	CM97892BOOO	3620	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
DU250 - 2 Pole	CM90960OOOO	1460	Set of 4
DU250C/DU250 - 3 Pole	ST98053OOOO	1870	Set of 6
DU250C/DU250 - 4 Pole	CM92007OOOO	2480	Set of 8
Rotary Handle			
Direct ROM	CM98040OOOO	1510	1
Extended ROM	CM98041OOOO	1940	1
SS Enclosure			
Size II Enclosure	CM91003OOOO	5510	1

Note: Phase Barriers are supplied along with all MCCBs

Accessories for DU400N MCCBs [8538]

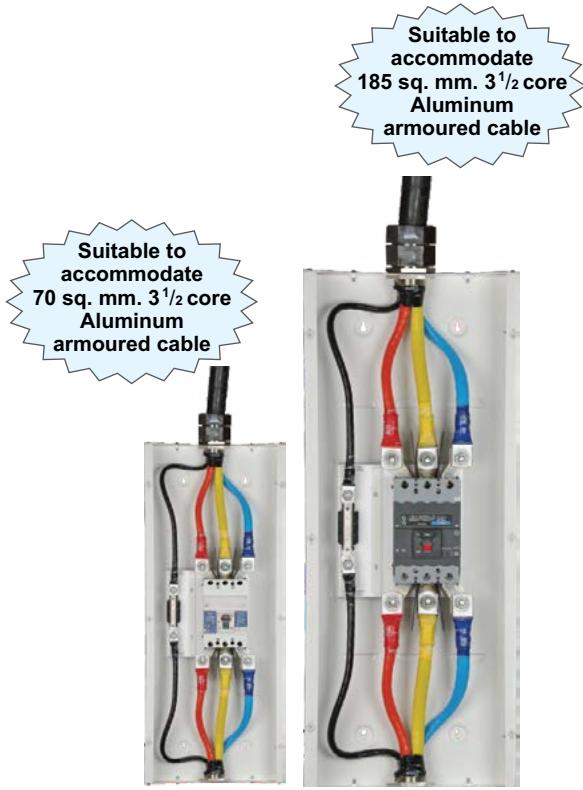
Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O	CM99801OOOO	1280	1
2 C/O	CM99802OOOO	2480	1
Trip Alarm Contact			
1 C/O - Right	CM99803OOOO	1350	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM99804OOOO	2480	1
Shunt Release			
110/240/415V AC, 220V DC	CM99805OOOO	3220@	1
24V DC	CM98976O4OO	3220@	1
Under Voltage Release			
240V AC - Left	CM99986BOOO	4470	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole	CM90964OOOO	2280	Set of 4
3 Pole	ST98065OOOO	3620	Set of 6
4 Pole	ST98066OOOO	5200	Set of 8
Rotary Handle			
Direct ROM	CM99860OOOO	2330	1
Extended ROM	CM99861OOOO	3830	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	CM909960000	2400	1
Size II Enclosure for DY250U1/DU250C/DU250/DN1	CM910030000	5510	1



Easy wall Mounting

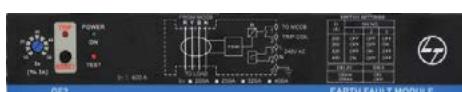


In-built Neutral Link



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 I_n
- 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	ST277450000	10800	Built in CBCT	1
GF2	200 - 400A	ST277460000	16500	Built in CBCT	1
GF11	up to 800A	ST285940000	9960 #	External CT required	1

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

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																DZ1	
36/50/70																DN2	DN3



- 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 and Motorised versions available@
- Wide range of accessories

dsine TM



- Conforms to IS/IEC 60947-2
- 16A to 160A, 3P & 4P
- 36kA & 50kA 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
- Wide range of accessories

dsine-DZ1 TM

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	CM97893OOC2OG	8920	CM97919OOC2OG	12500	1
	20-25		CM97893OOD2OG	8920	CM97919OOD2OG	12500	1
	25-32		CM97893OOE2OG	8920	CM97919OOE2OG	12500	1
	32-40		CM97893OOF2OG	8920	CM97919OOF2OG	12500	1
	40-50		CM97893OOG2OG	8920	CM97919OOG2OG	12500	1
	50-63		CM97893OOH2OG	8660	CM97919OOH2OG	12100	1
	63-80		CM97893OOJ2OG	8660	CM97919OOJ2OG	12100	1
	80-100		CM97893OOK2OG	8660	CM97919OOK2OG	12100	1
DN0-125D*	100-125		CM90680OOLOOG	10600	CM90681OOLOOG	14100	1
DN0-100C	16-20	25	CM91612OOOCOOG	9270	CM91712OOOCOOG	13000	1
	20-25		CM91612OODOOOG	9270	CM91712OODOOOG	13000	1
	25-32		CM91612OOEOOOG	9270	CM91712OOEOOOG	13000	1
	32-40		CM91612OOFOOOG	9270	CM91712OOFOOOG	13000	1
	40-50		CM91612OOGOOG	9270	CM91712OOGOOG	13000	1
	50-63		CM91612OOHOOG	9000	CM91712OOHOOG	12600	1
	63-80		CM91612OOJOOG	9000	CM91712OOJOOG	12600	1
	80-100		CM91612OOKOOG	9000	CM91712OOKOOG	12600	1
DN1-250C	100-125		CM90638OOLO	13000	CM90642OOLO	15900	1
	125-160		CM90638OOMO	16900	CM90642OOMO	20500	1
	160-200		CM90638OONO	21200	CM90642OONO	24600	1
	200-250		CM90638OOPP	24200	CM90642OOPP	28000	1

Kindly refer page no. 46
for cost effective MCCB for
motor starter application

Note:

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

@ Motorised version available for DN0 and DN3 frames (please refer page No. 46)

* 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)



 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	
DZ1-160D	11-16	36	DZ1T0016DXC1A	12000	DZ1F0016DXC1A	15400	1
	14-20		DZ1T0020DXC1A	12000	DZ1F0020DXC1A	15400	1
	17-25		DZ1T0025DXC1A	12000	DZ1F0025DXC1A	15400	1
	22-32		DZ1T0032DXC1A	12000	DZ1F0032DXC1A	15400	1
	27-40		DZ1T0040DXC1A	12000	DZ1F0040DXC1A	15400	1
	34-50		DZ1T0050DXC1A	12000	DZ1F0050DXC1A	15400	1
	43-63		DZ1T0063DXD1A	11700	DZ1F0063DXD1A	14900	1
	54-80		DZ1T0080DXD1A	11700	DZ1F0080DXD1A	14900	1
	67-100		DZ1T0100DXD1A	11700	DZ1F0100DXD1A	14900	1
	84-125		DZ1T0125DXD1A	13500	DZ1F0125DXD1A	16600	1
	108-160		DZ1T0160DXD1A	17700	DZ1F0160DXD1A	21000	1
DN2-250D	100-125		CM92008OOL1OG	17700	CM92108OOL1OG	21900	1
	125-160		CM92008OOM1OG	23400	CM92108OOM1OG	27800	1
	160-200		CM92009OON1OG	25200	CM92109OON1OG	32200	1
	200-250		CM92009OOP1OG	28300	CM92109OOP1OG	34100	1
DN3B-400D	250-320		CM98401OOQOOG	34100	CM98403OOQOOG	41600	1
	320-400		CM98401OOROOG	34100	CM98403OOROOG	41600	1
DN3-400D	250-320		CM94005OOQ1OG	*	CM94105OOQ1OG	*	1
	320-400		CM94005OOR1OG	*	CM94105OOR1OG	*	1
DN3-630D	400-500		CM94006OOS1OG	47000	CM94106OOS1OG	58100	1
	500-630		CM94006OOT1OG	47000	CM94106OOT1OG	58100	1
DZ1-160N	11-16	50	DZ1T0016NXC1A	15600	DZ1F0016NXC1A	19100	1
	14-20		DZ1T0020NXC1A	15600	DZ1F0020NXC1A	19100	1
	17-25		DZ1T0025NXC1A	15600	DZ1F0025NXC1A	19100	1
	22-32		DZ1T0032NXC1A	15600	DZ1F0032NXC1A	19100	1
	27-40		DZ1T0040NXC1A	15600	DZ1F0040NXC1A	19100	1
	34-50		DZ1T0050NXC1A	15600	DZ1F0050NXC1A	19100	1
	43-63		DZ1T0063NXD1A	15100	DZ1F0063NXD1A	18500	1
	54-80		DZ1T0080NXD1A	15100	DZ1F0080NXD1A	18500	1
	67-100		DZ1T0100NXD1A	15100	DZ1F0100NXD1A	18500	1
	84-125		DZ1T0125NXD1A	20100	DZ1F0125NXD1A	23200	1
	108-160		DZ1T0160NXD1A	22800	DZ1F0160NXD1A	27300	1
	100-125		CM92005OOL1OG	24600	CM92105OOL1OG	29900	1
DN2-250N	125-160		CM92005OOM1OG	26900	CM92105OOM1OG	35200	1
	160-200		CM92006OON1OG	27800	CM92106OON1OG	37600	1
	200-250		CM92006OOP1OG	30400	CM92106OOP1OG	38900	1
DN3-400N	250-320		CM94003OOQ1OG	37200	CM94103OOQ1OG	45600	1
	320-400		CM94003OOR1OG	37200	CM94103OOR1OG	45600	1
DN3-630N	400-500		CM94004OOS1OG	50300	CM94104OOS1OG	63700	1
	500-630		CM94004OOT1OG	50300	CM94104OOT1OG	63700	1
DN2-250S	100-125	70	CM92002OOL1OG	33800	CM92102OOL1OG	39900	1
	125-160		CM92002OOM1OG	36100	CM92102OOM1OG	42600	1
	160-200		CM92003OON1OG	40200	CM92103OON1OG	47700	1
	200-250		CM92003OOP1OG	42200	CM92103OOP1OG	50800	1
	250-320		CM94001OOQ1OG	44800	CM94101OOQ1OG	53100	1
DN3-400S	320-400		CM94001OOR1OG	44800	CM94101OOR1OG	53100	1
	400-500		CM94002OOS1OG	59500	CM94102OOS1OG	71500	1
	500-630		CM94002OOT1OG	59500	CM94102OOT1OG	71500	1

* Price on request Note: Add suffix as "0000" to all DZ1 cat. nos.

General Information

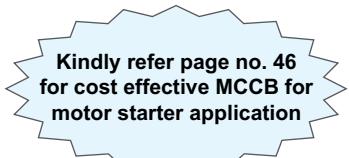
- Use of phase barriers is mandatory. These are supplied along with MCCBs
- **It is recommended to use spreader terminals for enhancing termination capacity**
- Spreader terminals are available as accessories, unless otherwise specified against cat. nos.

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 such as DN0-M, DZ1-N, DN1-M, DN2-M, DN3-M
- For isolator applications, use SD version (without protection release)



For DC application
please refer catalogue



Kindly refer page no. 46
for cost effective MCCB for
motor starter application

d sine With Microprocessor Release :

Rating (A)	40	63	100	160	250	400	630	800	1000	1250
Icu (kA)										
36/50				DZ1						
36/50/70/100					DN2		DN3			
50/70/100									DN4	

d sine With Microprocessor Release MTX1.0 & iTRP1 :

dsine 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 and Motorised versions available@
- Wide range of accessories


dsine-DZ iTRP1

- Conforms to IS/IEC 60947-2
- 16A to 160A, 3P & 4P
- 36kA & 50kA 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
- OR Instantaneous setting from 1.5 to 12 x In
- Switchable thermal memory
- Variable trip class
- Transparent sealable release cover
- Compact size
- 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	
DZ1-160D#	10-40	36	DZ1T0040DXF1A	20500	DZ1F0040DXF1A	25700	1
	16-63		DZ1T0063DXF1A	20500	DZ1F0063DXF1A	25700	1
	25-100		DZ1T0100DXF1A	20500	DZ1F0100DXF1A	25700	1
	40-160		DZ1T0160DXF1A	25900	DZ1F0160DXF1A	36000	1
DN2-250D	16-40	50	CM920630000X1	24800	CM921550000X1	31100	1
	25-63		CM920710000X1	24800	CM921540000X1	31100	1
	40-100		CM920510000X1	24800	CM921530000X1	31100	1
	63-160		CM920740000X1	31400	CM921520000X1	43600	1
	100-250		CM920540000X1	35400	CM921510000X1	48500	1
DN3-400D	160-400	70	CM930010000X1	43500	CM930030000X1	53800	1
DN3-630D	250-630		CM930050000X1	48500	CM930070000X1	63100	1
DZ1-160N#	10-40	36	DZ1T0040NXF1A	24400	DZ1F0040NXF1A	32600	1
	16-63		DZ1T0063NXF1A	24400	DZ1F0063NXF1A	32600	1
	25-100		DZ1T0100NXF1A	24400	DZ1F0100NXF1A	32600	1
	40-160		DZ1T0160NXF1A	31900	DZ1F0160NXF1A	40300	1
DN2-250N	16-40	50	CM920640000X1	29500	CM921600000X1	38500	1
	25-63		CM920720000X1	29500	CM921590000X1	38500	1
	40-100		CM920520000X1	29500	CM921580000X1	38500	1
	63-160		CM920750000X1	38600	CM921570000X1	47600	1
	100-250		CM920550000X1	40200	CM921560000X1	51900	1
DN3-400N	160-400	70	CM930020000X1	47600	CM930040000X1	61500	1
DN3-630N	250-630		CM930060000X1	52300	CM930080000X1	68200	1
DN4-1250N	320-800	70	CM960210000X1	77100	CM961110000X1	98000	1
	400-1000		CM960220000X1	109900	CM961120000X1	159100	1
	500-1250		CM960230000X1	137200	CM961130000X1	185600	1
	16-40		CM920650000X1	31400	CM921650000X1	40000	1
DN2-250S	25-63	70	CM920730000X1	31400	CM921640000X1	40000	1
	40-100		CM920590000X1	31400	CM921630000X1	40000	1
	63-160		CM920760000X1	42300	CM921620000X1	53500	1
	100-250		CM920560000X1	46400	CM921610000X1	60000	1
DN3-400S	160-400	70	CM940530000X1	59100	CM941530000X1	76100	1
DN3-630S	250-630		CM940790000X1	62500	CM941790000X1	86900	1
DN4-1250S	320-800	70	CM960250000X1	93600	CM961150000X1	119100	1
	400-1000		CM960260000X1	134700	CM961160000X1	196600	1
	500-1250		CM960270000X1	164900	CM961170000X1	224300	1

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

@ Motorised version available for DN2, DN3 and DN4 frames (please refer page No. 46)

Add suffix as "OOOO" to all DZ1 cat. nos. # For 25A, please contact nearest branch office



d sine With Microprocessor Release MTX2.0 & iTRP3 :



dsine MTX2.0

- 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
- Inbuilt ground fault protection from 20%-50% of In
- Adjustable neutral overload protection from 50% to 150% of Ir
- Switchable thermal memory
- Variable trip class
- Front LED Indication
- Panel mounted display for current metering & trip record
- Manual, Rotary and Motorised versions available@
- Wide range of accessories



dsine-DZ iTRP3

- Conforms to IS/IEC 60947-2
- 16A to 160A, 3P & 4P
- 36kA & 50kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 10 x Ir
- Adjustable Instantaneous setting, 6 In & 12 In
- Inbuilt ground fault protection from 20%-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
- 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	
DZ1-160D#	10-40	36	DZ1T0040DXH1A	36100	DZ1F0040DXH1A	41300	1
	16-63		DZ1T0063DXH1A	36100	DZ1F0063DXH1A	41300	1
	25-100		DZ1T0100DXH1A	36100	DZ1F0100DXH1A	41300	1
	40-160		DZ1T0160DXH1A	41500	DZ1F0160DXH1A	51600	1
DN2-250D	16-40	36	CM920630000AG	42400	CM921550000AG	48800	1
	25-63		CM920710000AG	42400	CM921540000AG	48800	1
	40-100		CM920510000AG	42400	CM921530000AG	48800	1
	63-160		CM920740000AG	46900	CM921520000AG	57600	1
	100-250		CM920540000AG	48800	CM921510000AG	60500	1
DN3-400D	160-400	36	CM930010000AG	58900	CM930030000AG	68200	1
DN3-630D	250-630		CM930050000AG	63800	CM930070000AG	78000	1
DZ1-160N#	10-40	50	DZ1T0040NXH1A	40000	DZ1F0040NXH1A	48200	1
	16-63		DZ1T0063NXH1A	40000	DZ1F0063NXH1A	48200	1
	25-100		DZ1T0100NXH1A	40000	DZ1F0100NXH1A	48200	1
	40-160		DZ1T0160NXH1A	47500	DZ1F0160NXH1A	55900	1
DN2-250N	16-40	50	CM920640000AG	46100	CM921600000AG	55000	1
	25-63		CM920720000AG	46100	CM921590000AG	55000	1
	40-100		CM920520000AG	46100	CM921580000AG	55000	1
	63-160		CM920750000AG	51700	CM921570000AG	61100	1
	100-250		CM920550000AG	52100	CM921560000AG	63900	1
DN3-400N	160-400	50	CM930020000AG	62400	CM930040000AG	73100	1
DN3-630N	250-630		CM930060000AG	67800	CM930080000AG	87400	1
DN4-1250N	320-800	50	CM960210000AG	108700	CM961110000AG	130300	1
	400-1000		CM960220000AG	140000	CM961120000AG	187400	1
	500-1250		CM960230000AG	164000	CM961130000AG	212200	1
	16-40		CM920650000AG	48200	CM921650000AG	57400	1
DN2-250S	25-63	70	CM920730000AG	48200	CM921640000AG	57400	1
	40-100		CM920590000AG	48200	CM921630000AG	57400	1
	63-160		CM920760000AG	57900	CM921620000AG	69000	1
	100-250		CM920560000AG	63600	CM921610000AG	80600	1
DN3-400S	160-400		CM940530000AG	78500	CM941530000AG	98300	1
DN3-630S	250-630	70	CM940790000AG	85000	CM941790000AG	118900	1
DN4-1250S	320-800		CM960250000AG	126400	CM961150000AG	158000	1
	400-1000		CM960260000AG	169800	CM961160000AG	229800	1
	500-1250		CM960270000AG	201500	CM961170000AG	264400	1

Accessories for MTX2.0 [8538]

Modules for MTX2.0 release	Cat. No.	M.R.P. (₹) Per Unit
Current Metering Module (Display & Metering Module)	CM956980000	33100
Cable (2m length)	CM011960000	1690
Power Supply Module	CL907220000	*
UNCO Module for Status Indication & Control through communication	CL908520000	13800



MTX2.0 with current metering module

Note: dsine-V Version (Icu=Ics=100kA)

MCCBs are available on request.

@ Motorised version available for DN2, DN3 and DN4 frames (please refer page No. 46)

Add suffix "OOOO" to all DZ1 cat nos.

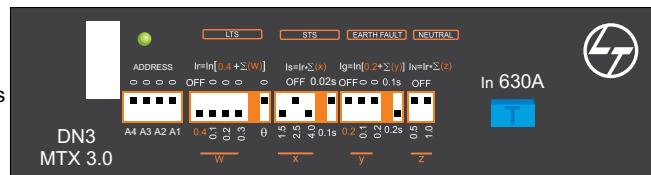
For 25A, please contact nearest branch office

*Price on request

With Microprocessor Release 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 or Motorised 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		CM930010000BG		CM930030000BG		1
DN3-630D	250 - 630		CM930050000BG		CM930070000BG		1
DN2-250N	16 - 40	50	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		CM930020000BG		CM930040000BG		1
DN3-630N	250 - 630		CM930060000BG		CM930080000BG		1
DN4-1250N	320 - 800	50	CM960210000BG	*	CM961110000BG	*	1
	400 - 1000		CM960220000BG		CM961120000BG		1
	500 - 1250		CM960230000BG		CM961130000BG		1
	16 - 40		CM920650000BG		CM921650000BG		1
	25 - 63		CM920730000BG		CM921640000BG		1
DN2-250S	40 - 100	70	CM920590000BG	*	CM921630000BG	*	1
	63 - 160		CM920760000BG		CM921620000BG		1
	100 - 250		CM920560000BG		CM921610000BG		1
DN3-400S	160 - 400		CM940530000BG		CM941530000BG		1
DN3-630S	250 - 630		CM940790000BG		CM941790000BG		1
DN4-1250S	320 - 800	70	CM960250000BG	*	CM961150000BG	*	1
	400 - 1000		CM960260000BG		CM961160000BG		1
	500 - 1250		CM960270000BG		CM961170000BG		1

Note: d sine-V Version (Icu=Ics=100kA) MCCBs are available on request.

@ Motorised version available for DN2, DN3 and DN4 frames (please refer page No. 46)

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	13800

* Price on request



MTX3.0 with all modules

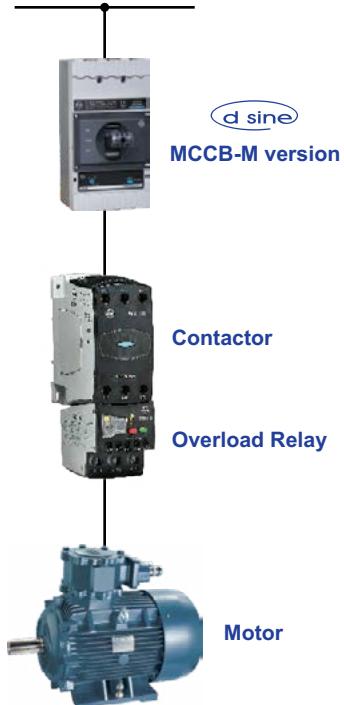


MCCBs for Motor back-up Protection:



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

Cost effective solution
for motor starter protection



Representative Application Image

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	CM98944OOEO	6020	1
	40		CM98944OOFO	6020	1
	50		CM98944OOGO	6020	1
	63		CM98944OOHO	6020	1
	80		CM98944OOJO	6020	1
	100		CM98944OOKO	6020	1
DZ1-160N	100	50	DZ1T0100NXM1A	8590	1
	125		DZ1T0125NXM1A	8740	1
	160		DZ1T0160NXM1A	10370	1
DN1-160M	100	50	CM90345OOKO	10040	1
	125		CM90345OOLO	10220	1
	160		CM90345OOMO	12130	1
DN2-250M	200	50	CM92171OONOOG	15540	1
	250		CM92171OOPOOG	20780	1
DN3-400M	320	50	CM94516OOQOOG	26270	1
	400		CM94516OOROOOG	27560	1
DN3-630M	500	50	CM94515OOSOOOG	30340	1
	630		CM94515OOTOOOG	30860	1

Note: Please contact nearest branch office for fuseless type 2 co-ordination selection chart

For lower HP motors, Please select MPCB. Details are given on page no. 18

Add suffix as "OOOO" to all DZ1 cat. nos.

Give your motor the right protection

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



Cost Effective



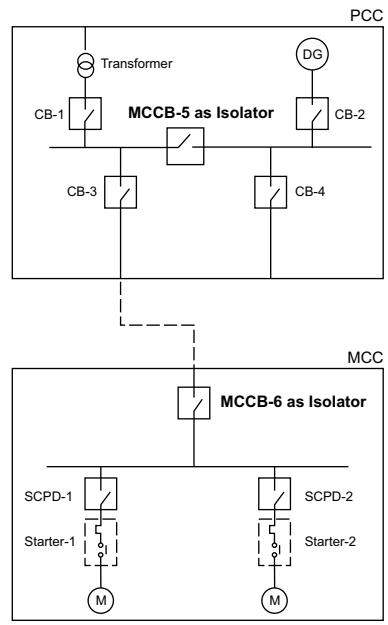
dsine-M range

d sine 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	CM90716OOEO	6880	CM90717OOEO	9200	1
	63	CM90716OOHO	6880	CM90717OOHO	9200	1
	100	CM90716OOKO	8210	CM90717OOKO	10700	1
	125	CM90716OOLO	9080	CM90717OOLO	11900	1
	160	CM90716OOMO	9820	CM90717OOMO	12700	1
DN2-250SD	200	CM96814OOONOOG	19500	CM96815OOONOOG	26000	1
	250	CM96802OOPOOG	20800	CM96803OOPOOG	28100	1
DN3B-400SD	320	CM98410OOQOOG	31100	CM98412OOQOOG	40000	1
	400	CM98410OROOG	31100	CM98412OROOG	40000	1
DN3-630SD	500	CM96806OOSOOG	35300	CM96807OOSOOG	47700	1
	630	CM96806OOTOOG	35300	CM96807OOTOOG	47700	1
DN4-1250SD	800	CM93041OOOUO	72300	CM93042OOOUO	89200	1
	1000	CM93041OOVO	96000	CM93042OOVO	122900	1
	1250	CM93041OOAO	128000	CM93042OOAO	158300	1



Representative Application Image

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**	ATC2000OOOO	31600	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



AuXC-2000

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

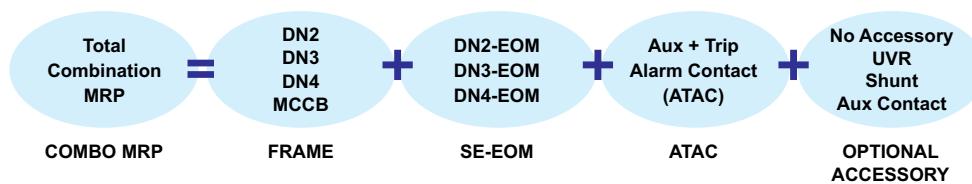
For AuXC 2000/2100 programming videos and more details please scan the QR code or click here



Frame	Accessories	Total Set M.R.P. (₹)	Remarks
DN2	2 Nos : SEOMs with Aux + Trip Alarm Contact + 1 No. : MIL + 1 No. : AuXC2000	110960	Add MRPs of Similar 2 MCCBs of DN2 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-400		131760	Add MRPs of Similar 2 MCCBs of DN3 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-630		132660	

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

d sine Motorised MCCB MRP Computation



Note:
Default MCCB Combination includes →
MCCB + SEEM + ATAC
For SE-EOM & its accessories MRPs refer to page no. 47



Accessories for d sine 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.)
Auxiliary Contact [8538]			
DN0, DN1 - 1 C/O - Right	CM978860000	1100	1
DN0, DN1 - 2 C/O - Right	CM978870000	1950	1
DN2, DN3B, DN3, DN4 - 1 C/O	CM998010000	1280	1
DN2, DN3B, DN3, DN4 - 2 C/O	CM998020000	2480	1
Trip Alarm Contact [8538]			
DN0, DN1 - 1 C/O - Right	CM978880000	1100	1
DN0, DN1 - 2 C/O - Right	CM978890000	1950	1
DN2, DN3B, DN3, DN4 - 1 C/O - Right	CM998030000	1350	1
Auxiliary 1 C/O + TAC 1 C/O [8538]			
DN0, DN1 - Right	CM978900000	1880	1
DN2, DN3B, DN3, DN4 - Right	CM998040000	2480	1
Shunt Release [8538]			
DN0, DN1 - 24V DC - Left	CM914020400	2180	1
DN0, DN1 - 110V AC - Left	CM978830AO0	2180	1
DN0, DN1 - 240/415V AC - Left	CM978830M00	2180	1
DN2, DN3 - 110V DC - Left	CM998070000	3860	1
DN2, DN3B, DN3, DN4 - 110/240/415V AC, 220V DC	CM998050000	3220@	1
DN2, DN3B, DN3 - 24V DC	CM989760400	3220@	1
Under Voltage Release [8538]			
DN0, DN1 - 240V AC - Left	CM97892B000	3620	1
DN2, DN3B, DN3 - 240V AC - Left	CM99986B000	4470**	1
DN4 - 240V AC - Left	CM999060000	5100**	1

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

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

\$ For other voltages, please contact nearest branch office

* For additional accessories of DZ1 MCCBs, please contact nearest branch office

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
External Neutral CT [8504]			
DN2 - 40A	CM999460000	1910	1
DN2 - 63A	CM999470000	1910	1
DN2 - 100A	CM999480000	1910	1
DN2 - 160A	CM999490000	2730	1
DN2 - 250A	CM999500000	2730	1
DN3 - 400A	CM999540000	5580	1
DN3 - 630A	CM999550000	5580	1
DN4 - 800A	CM998890000	8560	1
DN4 - 1000A	CM998900000	8930	1
DN4 - 1250A	CM998910000	9900	1
Adaptor kit for External Neutral CT [8538]			
DN2 - 250	CM999940000	820	Set of 2
DN3 - 400	CM999950000	1650	Set of 2
DN3 - 630	CM999970000	1660	Set of 2
DN4 - 800	CM999960000	2860	Set of 2
DN4 - 1000	CM909660000	6050	Set of 4
DN4 - 1250	CM999980000	10300	Set of 2
Stored Energy Electrical Operating Mechanism [8538]			
DN2-240V AC*	CM981320000	33600	
DN3-240V AC*	CM981300000	42100	
DN4-240V AC*	CM902840000	64900	

* Available as customised factory-fitted solution, please contact nearest branch office

Note: For arriving at Motorised MCCBs MRPs refer to page no. 46



Direct ROM



Extended ROM



Key Lock

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Rotary Handle [8538]			
DN0 Direct ROM	CM978950000	1410	1
DN1 Direct ROM	CM980400000	1510	1
DN2 Direct ROM	CM998290000	1560	1
DN3B, DN3 Direct ROM	CM998600000	2330	1
DN0 Extended ROM	CM978960000	1820	1
DN1 Extended ROM	CM980410000	1940	1
DN2 Extended ROM	CM998300000	2350	1
DN3B, DN3 Extended ROM	CM998610000	3830	1
DN4 Extended ROM	CM998840000	4860	1
Panel door mounted Key lock for Extended ROM # [8301]			
Type 1	CM99958TO000	6360	1
Type 2	CM99958TO00A	6360	1
Type 3	CM99958TO00B	6360	1
Type 12	CM99958TO00C	6360	1
Type 23	CM99958TO00D	6360	1

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



Spreader Terminals



MIL Kit - Base Mounted

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals [8538]			
DN0-100 - 3 Pole	CM977850000	435	Set of 6
DN0-125D - 3 Pole	CM906870OLO	565	Set of 6
DN1, DN2 - 250 - 3 Pole	ST980530000	1870	Set of 6
DN3B/DN3 - 400 - 3 Pole	ST980650000	3620	Set of 6
DN3-630 - 3 Pole	ST980540000	4190	Set of 6
DN4-800 - 3 Pole	CM911610OU0	8830	Set of 6
DN4-1000 - 3 Pole	CM911610OOV0	17700	Set of 12
DN4-1250 - 3 Pole	CM911610OOAO	34900	Set of 6
DN0-100 - 4 Pole	CM979210OO0	685	Set of 8
DN0-125D - 4 Pole	CM906880OOL0	815	Set of 8
DN1, DN2 - 250 - 4 Pole	CM920070000	2480	Set of 8
DN3B/DN3-400 - 4 Pole	ST980660000	5200	Set of 8
DN3-630 - 4 Pole	CM920040000	5320	Set of 8
DN4-800 - 4 Pole	ST903620000	11300	Set of 8
DN4-1000 - 4 Pole	CM900640OVO	22500	Set of 16
DN4-1250 - 4 Pole	ST980580000	44700	Set of 8
Mechanical Interlock Kit - Base Plate [8538]			
DN2-250	CM997310000	7200	1
DN3-400	CM997320000	11000	1
DN3-630	CM998540000	11900	1
DIN rail kit [8538]			
DN0	CM909440000	160	1

Note: Phase Barriers are supplied along with MCCBs

Accessories for MCCBs [8538]

Accessories for DZ1 MCCBs [8538]



Auxiliary Contact / TAC



Shunt Release



UV Release



Direct / Extended ROM



Key Lock



Spreaders



Rear Terminals

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact / Trip Alarm Contact [8538]			
1 C/O	EM901100000	1100	1
Shunt Release [8538]			
415V AC	EM90032OPOO	2920	1
240V AC	EM90032OB00	2920	1
110V AC	EM90032OA00	2920	1
48V AC	EM90032OJ00	2920	1
24V AC	EM90032OG00	2920	1
220V DC	EM90032O200	2920	1
110V DC	EM90032O100	2920	1
48V DC	EM90032O500	2920	1
24V DC	EM90032O400	2920	1
12V DC	EM90032O300	2920	1
Under Voltage Release [8538]			
415V AC	EM90031PO00	3680	1
240V AC	EM90031BO00	3680	1
110V AC	EM90031EO00	3680	1
48V AC	EM90031JO00	3680	1
24V AC	EM90031GO00	3680	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Rotary Handle [8538]			
Direct ROM	EM902070000	1540	1
Extended ROM	EM902090000	2080	1
Panel door mounted Key lock for Extended ROM [8301]			
Type 1	EM990310000	5900	1
Type 2	EM99031000A	5900	1
Type 3	EM99031000B	5900	1
Type 12	EM99031000C	5900	1
Type 23	EM99031000D	5900	1
Spreader Terminals [8538]			
3 Pole	EM906090000	1760	Set of 6
4 Pole	EM906100000	2310	Set of 8
Rear Termination Kit - [8538]			
3 Pole Full Kit	EM911760000	4720	Set of 6
4 Pole Full Kit	EM911770000	6740	Set of 8

Note: Phase Barriers are supplied along with MCCBs



Neutral CT



Electrical Operating Mechanism



Plug-In Kit



MIL - Front Slider



MIL - Base Plate + cable

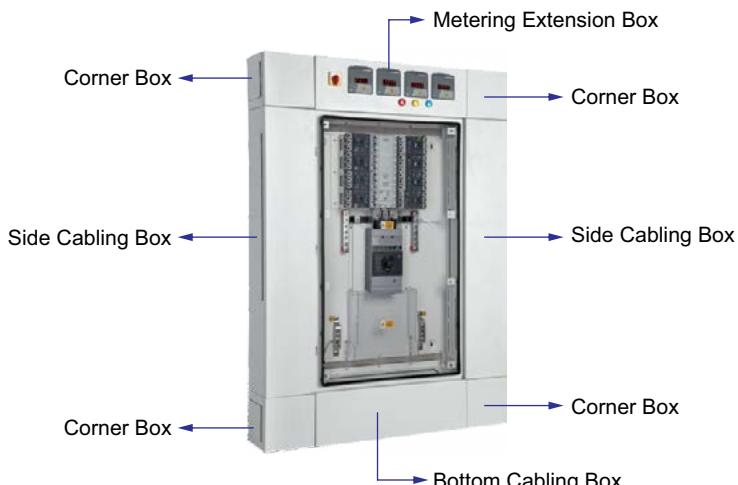
Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
External Neutral CT [8504]			
40A, 63A	EM905070000	2190	1
100A, 160A	EM905080000	2190	1
Adaptor kit for External Neutral CT [8538]			
40-160A	CM99940000	820	Set of 2
Electrical Operating Mechanism [8538]			
240V AC	EM90490BO00	35900	1
Plug-In [8538]			
3 Pole Full Kit	EM902010000	9780	1
4 Pole Full Kit	EM902020000	13400	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Mechanical Interlock Options: [8538]			
Front Slider MIL	EM903960000	3800	1
MIL - Base Plate + Cable (for MCCBs without Rear Terminals) # :			
Base Plate \$	EM904040000	6810	1
L Cable (1m length) \$	EM004710000	1770	1
L Cable (3m length) \$	EM004740000	2680	1
L Cable (5m length) \$	EM004770000	3700	1
MIL - Base Plate + Cable (for MCCBs with Rear Terminals) # :			
Base Plate RT \$	EM904010000	7500	1
M Cable (1m length) \$	EM004720000	1770	1
M Cable (3m length) \$	EM004750000	2680	1
M Cable (5m length) \$	EM004780000	3700	1

\$ - 2 Nos of Base Plate & 1 No of suitable length of Cable must be ordered together along with 2 Nos of MCCBs.

- Common for 3P & 4P MCCBs.





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	CM90638OOMO	16900
	DN1-250C 3 Pole MCCB - 200A	CM90638OONO	21200
	DN1-250C 3 Pole MCCB - 250A	CM90638OOPO	24200
TN400D	DN3-400D 3 Pole MCCB - 320A	CM94005OOQ1OG	36700
	DN3-400D 3 Pole MCCB - 400A	CM94005OOR1OG	36700
TN630D	DN3-630D 3 Pole MCCB - 500A	CM94006OOS1OG	47000
	DN3-630D 3 Pole MCCB - 630A	CM94006OOT1OG	47000

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	CM91612OOOCOOG	9270
	DN0-100C 3 Pole MCCB - 25A	CM91612OODOOG	9270
	DN0-100C 3 Pole MCCB - 32A	CM91612OOEOOG	9270
	DN0-100C 3 Pole MCCB - 40A	CM91612OOFOOG	9270
	DN0-100C 3 Pole MCCB - 50A	CM91612OOGOOG	9270
	DN0-100C 3 Pole MCCB - 63A	CM91612OOHOOG	9000
	DN0-100C 3 Pole MCCB - 80A	CM91612OOJOOG	9000
	DN0-100C 3 Pole MCCB - 100A	CM91612OOKOOG	9000
TN630D	DN1-250C 3 Pole MCCB - 160A	CM90638OOMO	16900
	DN1-250C 3 Pole MCCB - 200A	CM90638OONO	21200
	DN1-250C 3 Pole MCCB - 250A	CM90638OOPO	24200

DN0, DU100D & DU100H MCCBs are suitable as outgoing devices up to 100 A
 DN1-250N, DU250 & DU250C MCCBs are suitable as outgoing devices up to 250 A

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	CM90439OOP0	8300
	Bottom Cabling Box	CM90437OOOO	7780
TN630D	Metering Extension Box	CM91064OOTO	8750
	Bottom Cabling Box	CM91062OOOO	8230
TN250D, TN400D & TN630D	Corner Box	CM91089OOOO	2890
	Mounting base	CM70260OOOO	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	CM91085ODOO	7960	CM91086ODOO	7960
	-	8	CM91085OFOO	10280	CM91086OFOO	10280
	-	12	CM91085OHOO	12320	CM91086OHOO	12320
	-	16	CM91085OKOO	14380	CM91086OKOO	14380
TN400D	-	4	CM91087ODOO	12320	CM91088ODOO	12320
	-	8	CM91087OFOO	14380	CM91088OFOO	14380
	-	12	CM91087OHOO	15750	CM91088OHOO	15750
	-	16	CM91087OKOO	17800	CM91088OKOO	17800
TN630D	-	8	CM91120OOFO	14920	CM91121OOFO	14920
	-	12	CM91120OOHO	17380	CM91121OOHO	17380
	-	16			CM91121OOHO	17380
	4	-	CM91120OODO	13370	CM91121OODO	13370
	8	-	CM91120OOFO	14920	CM91121OOFO	14920
	12	-	CM91120OOHO	17380	CM91121OOHO	17380
	16	-	CM91120OOKO	18940	CM91121OOKO	18940
	2	2	CM91120OODO	13370	CM91121OODO	13370
	2	6	CM91120OOFO	14920	CM91121OOFO	14920
	2	10	CM91120OOHO	17380	CM91121OOHO	17380
	2	14			CM91121OOHO	17380



Engineered to the Highest Standards



Presenting Ti & Enersys – the new, design-verified power distribution solution from L&T Electrical & Automation (E&A)

The Ti & Enersys range of distribution boards are backed by many years of knowledge and experience in systems and switchgear, as well as feedback from consulting engineers, electrical contractors and end-users. With Ti & Enersys, you are assured of cutting-edge performance, superior safety, higher reliability, effective use of your capital and space, and high-class protection for your power distribution systems.

Ti & Enersys are design verified solution complying with latest IEC-61439 standard and available up to 5000A & 4000A rating respectively. It offers unique blend of quality, safety and standardization.

Ti & Enersys offering through E&As authorized franchisee network further gives edge as cost competitiveness and localized support for all future needs. Moreover, these systems feature a fully-compartmentalized design, with an option of aluminum or copper busbars – ensuring quicker delivery and easier installation.

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com



SmartComm Power Management Solutions



Digitally connect, operate, and optimize with our cutting-edge SCADA-based platform, designed to improve operational efficiency and promote sustainable operations



Seamless Integration from Plant floor assets to real-time dashboards



Holistic view of Power Distribution Network using intuitive Single-Line Diagram (SLD)



Highly scalable platform from 128 to unlimited tags



Gain valuable insights with Energy Analytics dashboards & Custom Reports for data-driven decisions



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



Infra



OEM





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[#]**
- 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 - MTX1.0/1G/1Gi/1.5G/1.5Gi, MTX3.5/3.5EC/3.5H & MTX4.5
- Unique O-LED display for metering
- Touch screen technology in UW-MTX4.5
- 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, 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-MTX1.0 UW-MTX1G UW-MTX1Gi UW-MTX1.5G UW-MTX1.5Gi



UW-MTX3.5/3.5EC/3.5H UW-MTX4.5

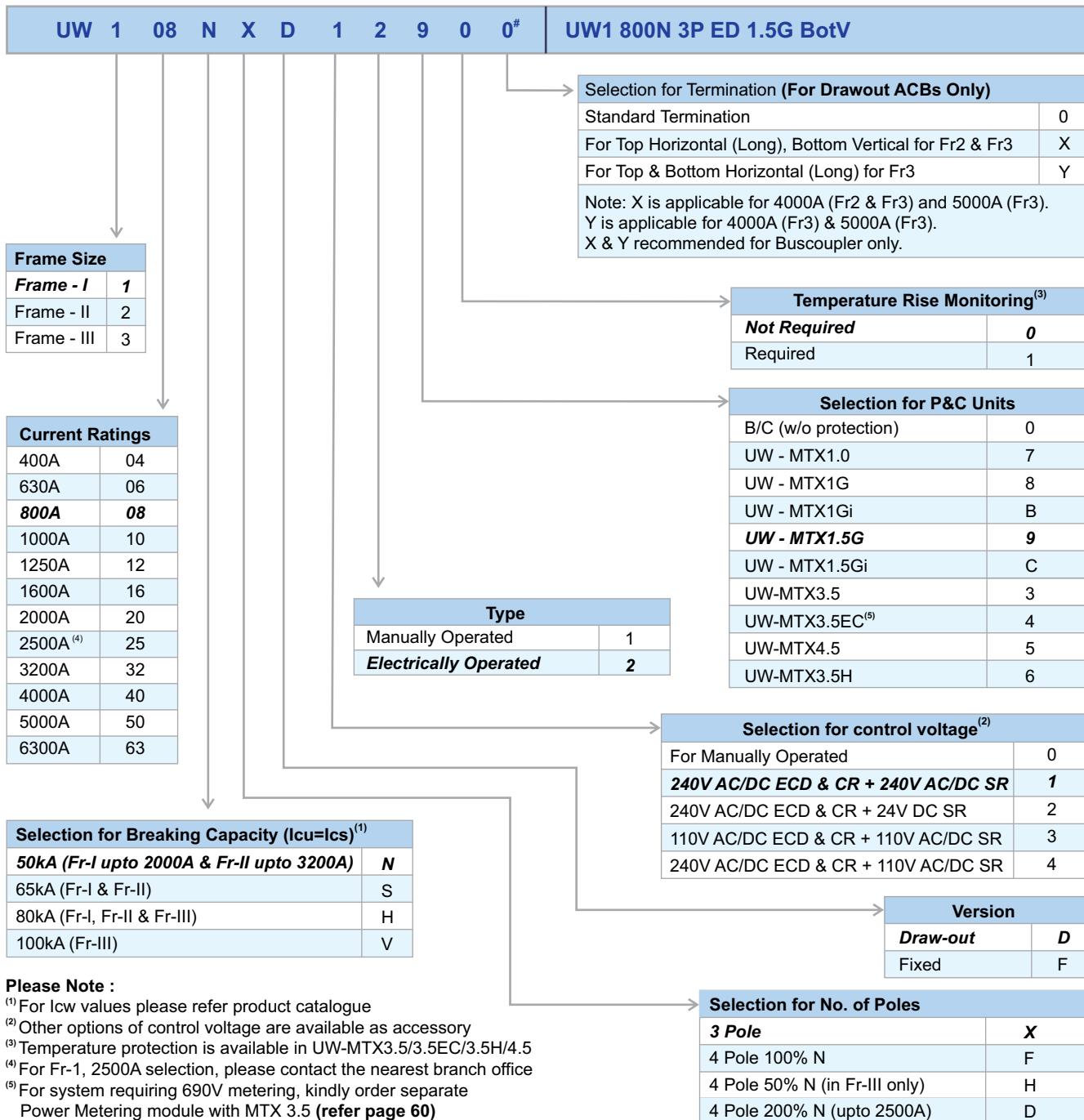
Breaking Capacities Offered:

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

I _{cu} = I _{cs} = I _{cw} 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		New
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:**ACBs are offered with following standard features:**

Draw-out Version : Omega ACBs with UW-MTX release will have inbuilt-

Current Metering (MTX 1.5G/1.5Gi/3.5/3.5EC/3.5H/4.5), 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 (1.5G/1.5Gi/3.5/3.5EC/3.5H/4.5), 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.

Electrically operated ACB includes ECD, CR & SR as per selection of above mentioned control voltage options.

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



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							
		N (50kA @ 415 AC)		S (65kA @ 415 AC)		H (80kA @ 415 AC)		V (100kA @ 415 AC)	
		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	UW108NXD01800	*	UW108SXD01800	*	UW108HXD01800	*	UW308VXD01800	*
1000A		UW110NXD01800		UW110SXD01800		UW110HXD01800		UW310VXD01800	
1250A		UW112NXD01800		UW112SXD01800		UW112HXD01800		UW312VXD01800	
1600A		UW116NXD01800		UW116SXD01800		UW116HXD01800		UW316VXD01800	
2000A		UW120NXD01800		UW120SXD01800		UW120HXD01800		UW320VXD01800	
2500A		UW225NXD01800		UW225SXD01800		UW225HXD01800		UW325VXD01800	
3200A		UW232NXD01800		UW232SXD01800		UW232HXD01800		UW332VXD01800	
4000A		UW240NXD01800		UW240SXD01800		UW240HXD01800		UW340VXD01800	
4000A		-		-		UW340HXD01800		UW340VXD01800	
5000A		-		-		UW350HXD01800		UW350VXD01800	
6300A		-		-		UW363HXD01800		UW363VXD01800	

3 Pole Manual Fixed ACB with UW-MTX1G									
800A	MF	UW108NXF01800	*	UW108SXF01800	*	UW108HXF01800	*	UW308VXF01800	*
1000A		UW110NXF01800		UW110SXF01800		UW110HXF01800		UW310VXF01800	
1250A		UW112NXF01800		UW112SXF01800		UW112HXF01800		UW312VXF01800	
1600A		UW116NXF01800		UW116SXF01800		UW116HXF01800		UW316VXF01800	
2000A		UW120NXF01800		UW120SXF01800		UW120HXF01800		UW320VXF01800	
2500A		UW225NXF01800		UW225SXF01800		UW225HXF01800		UW325VXF01800	
3200A		UW232NXF01800		UW232SXF01800		UW232HXF01800		UW332VXF01800	
4000A		UW240NXF01800		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)		
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 + UW-PS Module)		
UW-PS (Auxiliary power supply module for display in No-load or OFF condition)\$		
COM Module (MODBUS) for communication\$		
PM Module for power metering\$		

* Available on request

\$ Chapter ID [8538]

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


Current Rating	Version	4 Pole Manual Draw-out ACB with UW-MTX1G					
		N (50kA @ 415 AC)		S (65kA @ 415 AC)		H (80kA @ 415 AC)	
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	UW108NFD01800	*	UW108SFD01800	*	UW108HFD01800	*
1000A		UW110NFD01800		UW110SFD01800		UW110HFD01800	
1250A		UW112NFD01800		UW112SFD01800		UW112HFD01800	
1600A		UW116NFD01800		UW116SFD01800		UW116HFD01800	
2000A		UW120NFD01800		UW120SFD01800		UW120HFD01800	
2500A		UW225NFD01800		UW225SFD01800		UW225HFD01800	*
3200A		UW232NFD01800		UW232SFD01800		UW232HFD01800	
4000A		New UW240NFD01800		UW240SFD01800		UW240HFD01800	
4000A		-		-		UW340HFD01800	
5000A		-		-		UW350HFD01800	
6300A		-		-		UW363HFD01800	

4 Pole Manual Fixed ACB with UW-MTX1G							
800A	MF	UW108NFF01800	*	UW108SFF01800	*	UW108HFF01800	*
1000A		UW110NFF01800		UW110SFF01800		UW110HFF01800	
1250A		UW112NFF01800		UW112SFF01800		UW112HFF01800	
1600A		UW116NFF01800		UW116SFF01800		UW116HFF01800	
2000A		UW120NFF01800		UW120SFF01800		UW120HFF01800	*
2500A		UW225NFF01800		UW225SFF01800		UW225HFF01800	
3200A		UW232NFF01800		UW232SFF01800		UW232HFF01800	
4000A		New UW240NFF01800		UW240SFF01800		UW240HFF01800	
4000A		-		-		UW340HFF01800	
5000A		-		-		UW350HFF01800	
6300A		-		-		UW363HFF01800	

* Available on request

Accessories of OMEGA Air Circuit Breakers [8538]
Terminal Adaptor configuration upto 690V AC

Draw-out ACBs Terminal Adaptors

Fix ACBs Terminal Adaptors

Description	Cat. No.	M.R.P. (₹) Per Unit
Terminal Adaptor for Draw-out Omega ACBs		
Frame-1 400-2000A N/S/H (Vertical / Horizontal)	CL609630000	
Frame-1 2500A S/H (Vertical)	CL609640000	
Frame-2 400-3200A N/S/H (Vertical / Horizontal)		
Frame-2 4000A N/S/H (Vertical)	CL604200000	*
Frame-2 4000A N/S/H (Horizontal)	CL603160000	
Frame-3 400-4000A H/V (Vertical) #	CL601280000	
Frame-3 400-4000A H/V (Horizontal-Long)	CL600730000	
Frame-3 5000A H/V (Horizontal-Long)	CL609660000	
Frame-3 5000A H/V (Vertical) #	CL600670000	
Frame-3 6300A H/V (Vertical) #	CL609650000	

Description	Cat. No.	M.R.P. (₹) Per Unit
Terminal Adaptor for Fixed Omega ACBs		
Frame-1 400-2000A N/S (Vertical / Horizontal)	CL609670000	*
Frame-1 400-2000A H (Vertical / Horizontal)	CL609680000	
Frame-1 2500A S/H (Vertical)	CL609760000	
Frame-2 400-2500A N/S (Vertical / Horizontal)	CL601220000	
Frame-2 400-3200A H, 3200A N/S (Vertical / Horizontal)	CL609770000	
Frame-2 4000A S/H (Vertical)	CL604170000	
Frame-3 400-4000A H/V (Vertical) #	CL604180000	
Frame-3 5000A H/V (Vertical) #	CL603470000	
Frame-3 400-5000A H/V (Horizontal-Long)	CL603730000	

: 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 Fix/Draw-out ACB with UW-MTX1G										
Current Rating	Frame	Breaking Capacity @ 800V AC	3P				4P			
			Fix		Draw-out		Fix		Draw-out	
			Cat. No.	M.R.P. (₹) Per Unit						
800A	1	50kA	UW108NXF0180ZM	*	UW108NFD0180ZM	*	UW108NFF0180ZM	*	UW108NFD0180ZM	*
1000A			UW110NXF0180ZM		UW110NFD0180ZM		UW110NFF0180ZM		UW110NFD0180ZM	
1250A			UW112NXF0180ZM		UW112NFD0180ZM		UW112NFF0180ZM		UW112NFD0180ZM	*
1600A			UW116NXF0180ZM		UW116NFD0180ZM		UW116NFF0180ZM		UW116NFD0180ZM	
2000A			UW120NXF0180ZM		UW120NFD0180ZM		UW120NFF0180ZM		UW120NFD0180ZM	
2000A	2	50kA	UW220NXF0180ZM	*	UW220NFD0180ZM	*	UW220NFF0180ZM	*	UW220NFD0180ZM	*
2500A			UW225NXF0180ZM		UW225NFD0180ZM		UW225NFF0180ZM		UW225NFD0180ZM	
3200A			UW232NXF0180ZM		UW232NFD0180ZM		UW232NFF0180ZM		UW232NFD0180ZM	
4000A			-		UW240NXD0180ZM		-		UW240NFD0180ZM	
3200A	3	50kA	UW332NXF0180ZM	*	UW332NFD0180ZM	*	UW332NFF0180ZM	*	UW332NFD0180ZM	*
4000A			UW340NXF0180ZM		UW340NFD0180ZM		UW340NFF0180ZM		UW340NFD0180ZM	
5000A			UW350NXF0180ZM		UW350NFD0180ZM		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 Fix 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								
UW-PS (Auxiliary power supply module for display in No-load or OFF condition)								

Terminal Adaptors for 800V ACBs [8538]

Current Rating	Frame	Fix			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



Fix ACBs Terminal Adaptors

Phase-Barriers for 800V AC Fix ACBs [8538]

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

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

* Available on request

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
Other Accessories [8538]		
Operation Counter	CL909830000#	
Door Interlock	CL909780000	*
Electrical Position Indication (EPI)	CL958260000	
Microswitches for Indication [8536]		
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	

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

Operation Counter inbuilt for rating 4000A to 6300A



R-Lock



C-Lock

Description	Cat. No.	M.R.P. (₹) Per Unit
Mechanical Interlock using Key & Lock\$		
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	

*



NCT

Description	Cat. No.	M.R.P. (₹) Per Unit
External Neutral CT for UW-MTX Releases [8504]		
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]



Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 controller**	ATC20000000	31600	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



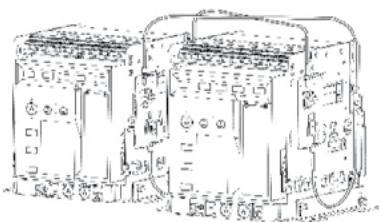
For AuXC 2000/2100 programming videos and more details
please scan the QR code or click here

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

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



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
Mechanical Interlock using Bowden Cable (5 meters length)		
Between 2 Incomers	CL906630000	*
Between 3 Incomers	CL906640000	
Between 2 Incomers & 1 Standby	CL906650000	
Between 2 Incomers & 1 Buscoupler	CL906660000	
Mechanical Interlock using Bowden Cable (3 meters length)		
Between 2 Incomers	CL906590000	*
Between 3 Incomers	CL906600000	
Between 2 Incomers & 1 Standby	CL906610000	
Between 2 Incomers & 1 Buscoupler	CL906620000	
Mechanical Interlock using Bowden Cable (2 meters length)		
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
MATRIX Releases & Modules [8538]		
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	CL906470000	
Power supply module	CL907220000	
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

Upgrade to the new-age OMEGA ACB with Minimal Modifications



Pre-Engineered Retrofit Solution
Upgrade E&A CNCS ACB to OMEGA ACB

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

Presenting the pre-engineered L&T Electrical & Automation (E&A) CNCS to OMEGA Retrofit kit

The E&A CNCS to OMEGA Retrofit kit is a pre-engineered solution which allows you to upgrade from the old CNCS ACB to the advanced E&A OMEGA ACB - with minimal modification. All installations are done by trained Engineers from the nearest E&A 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

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com

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 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 (UN-CO module)



C-POWER S1 ACB



C-POWER ACB

C-POWER Range of Air Circuit Breakers

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Current rating from 800A to 6300A
- 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 & SR71)
- 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 (UN-CO module)

C-POWER HE ACBs for Harsh Environment

- Designed to operate at peak efficiency in Sulphur-rich 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 of SO₂ and H₂S

Please contact the nearest branch office for Details & product Selection



C-POWER HE Range

Breaking Capacities Offered:

I _{cu} = I _{cs} = I _{cw} for 1 sec										
630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6300A
50kA	50kA	50kA	50kA	50kA	50kA	50kA	50kA	50kA	50kA	50kA
Frame-1										
CN-CS : S1	50kA	50kA	50kA	50kA	50kA	50kA	60kA	60kA	60kA	60kA
Frame-1						Frame-2				
CN-CS : C	50kA	50kA	50kA	50kA	55kA	60kA	95kA	95kA	95kA	95kA
CN-CS : H	65kA	65kA	65kA	65kA	75kA	75kA	75kA	75kA	75kA	75kA
CN-CS : H2						75kA	75kA	75kA	75kA	75kA
CN-CS : H / H1						100kA	100kA	100kA	100kA	100kA
CN-CS : HE	50kA			60kA		75kA	75kA	95kA	95kA	95kA
Frame-1					Frame-2	Frame-3	Frame-4	Frame-5	Frame-6	Frame-7

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 $I_{cu}=I_{cs}=I_{cw}$ (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	204200	SL96061	256200
SL96051	254900	SL96071	306900
SL96042	204200	SL96062	256200
SL96052	254900	SL96072	306900
SL96043	212400	SL96063	268400
SL96053	263100	SL96073	319100
SL96044	234300	SL96064	295600
SL96054	285000	SL96074	346300
SL96045	267200	SL96065	328600
SL96055	317900	SL96075	379300
SL96046	313800	SL96066	385500
SL96056	364500	SL96076	436200
SL96047	387900	SL96067	467500
SL96057	438600	SL96077	518200

Thermal-Magnetic DN1			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95331	199200	SL95351	251200
SL95341	249900	SL95361	301900
SL95332	199200	SL95352	251200
SL95342	258100	SL95362	301900
SL95333	207400	SL95353	263400
SL95343	258100	SL95363	314100
SL95334	229300	SL95354	290600
SL95344	280000	SL95364	341300
SL95335	262200	SL95355	323600
SL95345	312900	SL95365	374300
SL95336	308800	SL95356	380500
SL95346	359500	SL95366	431200
SL95337	382900	SL95357	462500
SL95347	433600	SL95367	513200

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

C-POWER S1 3 & 4 Pole Fixed ACBs

Rating	Breaking Capacity $I_{cu}=I_{cs}=I_{cw}$ (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	125300	SL95581	159700
SL95571	175300	SL95591	209700
SL95562	125300	SL95582	159700
SL95572	175300	SL95592	209700
SL95563	136900	SL95583	172700
SL95573	186900	SL95593	222600
SL95564	157600	SL95584	197000
SL95574	207600	SL95594	247000
SL95565	174800	SL95585	224800
SL95575	224800	SL95595	274700

Thermal-Magnetic DN1			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95481	120300	SL95501	154700
SL95491	170300	SL95511	204700
SL95482	120300	SL95502	154700
SL95492	170300	SL95512	204700
SL95483	131900	SL95503	167700
SL95493	181900	SL95513	217600
SL95484	152600	SL95504	192000
SL95494	202600	SL95514	242000
SL95485	169800	SL95505	219800
SL95495	219800	SL95515	269700

Note : Add a Suffix "OOOO" 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	13000
Microprocessor based SR18G+D (LSING + Current Metering)	Add	15000
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)	Add	18000

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.
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 $I_{cu}=I_{cs}=I_{cw}$ (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	82300
SL957220000	83000
SL957230000	87900
SL957240000	90100
SL957250000	118100
SL957260000	124300
SL932970000	142700

C-POWER Air Circuit Breakers [8536]



C-POWER 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity Icu=Ics=lcw (1 sec)	Version	Type
800A	65kA	MDO	H
		EDO	H
1000A	65kA	MDO	H
		EDO	H
1250A	65kA	MDO	H
		EDO	H
1600A	65kA	MDO	H
		EDO	H
2000A	75kA	MDO	H
		EDO	H
2500A	75kA	MDO	H
		EDO	H
3200A	75kA	MDO	H2
		EDO	H2
4000A	75kA	MDO	H2
		EDO	H2
5000A	95kA	MDO/EDO	C
6300A	95kA	MDO/EDO	C

Micropocessor Based SR18G			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL95311	342700	#	444100
SL95321	393400	#	494800
SL95312	349000	#	472000
SL95322	399700	#	522700
SL95313	381600	#	506100
SL95323	432300	#	556800
SL95314	429400	#	557200
SL95324	480100	#	607900
SL95315	483700	#	611400
SL95325	534400	#	662100
SL95316	493900	#	595900
SL95326	544600	#	646600
SL94822	492400	SL94826	604300
SL94824	543100	SL94828	655000
SL94823	570000	SL94827	739400
SL94825	620700	SL94829	790100
#	*	#	*
#	*	#	*

Thermal-Magnetic DN1			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
#	337700	#	439100
#	388400	#	489800
#	344000	#	467000
#	394700	#	517700
#	376600	#	501100
#	427300	#	551800
#	424400	#	552200
#	475100	#	602900
#	478700	#	606400
#	529400	#	657100
#	488900	#	590900
#	539600	#	641600
SL94814	487400	SL94818	599300
SL94816	538100	SL94820	650000
SL94815	565000	SL94819	734400
SL94817	615700	SL94821	785100
#	*	#	*
#	*	#	*

Note: For higher breaking capacities & 690V AC application please contact the nearest branch office
Add a Suffix "OOOO" 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
800A	50kA	MF	C
1000A	50kA		
1250A	50kA		
1600A	50kA		
2000A	55kA		
2500A	60kA		

Micropocessor Based SR18G			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
SL97635	240200	#	311600
SL97636	264700	#	356800

Thermal-Magnetic DN1			
3 Pole		4 Pole	
Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
*	*	*	*
SL93005	235200	#	306600
SL93006	259700	#	351800

Note: For higher breaking capacities & 690V AC application please contact the nearest branch office
Add a Suffix "OOOO" 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	13000	
Microprocessor based SR18G+D (LSING + Current Metering)	Add	15000	
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)	Add	18000	
Microprocessor based SR71 (LSING + Current metering + Advance protection + PS Module)	Add		
Communication Module (MODBUS) for SR71 release (SR71 - COM)\$	SL946980000		*
Power Metering Module for SR71 release (SR71 - PM)\$	SL946990000		

\$ Chapter ID [8538]

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)



AN1 Module



LTPB



LIP



Shunt Release



UV Release

Description	Cat. No.	M.R.P. (₹) Per Unit
Lockable Trip Push Button (LTPB) [8301]		
Type AA	SL93148OOOA	4800
Type BB	SL93148OOOB	4800
Type CC	SL93148OOOC	4800
Type DD	SL93148OOOD	4800
Lockable Trip Push Button kit (3 I/C & 2 B/C) SL91936OOOO 24000		
Locking of ACB in Isolated position (LIP) [8301]		
Type A	SL93146OOOA	4800
Type B	SL93146OOOB	4800
Type C	SL93146OOOC	4800
Type D	SL93146OOOD	4800
Locking of ACB in Any position (LAP) [8301]		
Type A	SL93147OOOA	4800
Type B	SL93147OOOB	4800
Type C	SL93147OOOC	4800
Type D	SL93147OOOD	4800
Racking Interlock [8301]		
Type AA	SL93149OOOA	6610
Type BB	SL93149OOOB	6610
Type CC	SL93149OOOC	6610
Type DD	SL93149OOOD	6610
Padlock [8301]		
Racking Padlock Assembly	CL90025OOOO	2240
Other Accessories [8538]		
Door Interlock	SL93150OOOO	3520
Mechanical Operation Counter*	XM80837OOOO	3480
Mounting Kit for Front Mounted Counter	SL95882OOOO	1230
Spring Charge Indication Microswitch	SL96000OOOO	2790

* For mounting the Operation counter, mounting kit "SL95882OOOO" needs to be ordered separately. Operation Counter inbuilt for rating 4000A to 6300A.



Vertical Terminal Adaptor

Description	Cat. No.	M.R.P. (₹) Per Unit
Shunt Release (SR) [8538]		
Type EA : 24/48V DC	SL927180400	3750
Type EA : 110V DC	SL927180100	3750
Type EA : 220V DC	SL927180200	3750
Type EA1 : 110V AC	SL927180A00	3750
Type EA1 : 240V AC	SL927180B00	3750
Type EA1 : 415V AC	SL927180D00	3750
Under Voltage Release (UVR) [8538]		
Type MV : 24V DC	ST368770000	5410
Type MV : 240V AC	SL92720B000	5410
Type MV : 415V AC	SL92720D000	5410
Earth Fault Release (for DN1) [8538]		
Type EF1 (10%, 20% In)	SL913400000	4790
Type EF2 (30%, 40%, 50% In)	SL913410000	4790
Remote Fault Indication [8538]		
AN1 Remote Annunciation Module for SR18G/SR18G+D/SR18Gi+D : 240V AC	SL946540000	11600
Microswitches for Indication [8536]		
Microswitch for Voltmetric Releases (2) each	SL927030000	2970
Microswitch for Common Indication of O/L & S/C (3) each	SL927040000	2970
Microswitch for Separate Indication of O/L & S/C (3) each (for DN1 release)	SL927050000	4960
Service Position Microswitch - Right (2)	SL931420000	2010
Service Position Microswitch - Left (2)	SL931430000	2010
Test or Isolated Position Microswitch - Right (2)	SL931440000	2010
Test or Isolated Position Microswitch - Left (2)	SL931450000	2010

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



UN-CO module [8538]

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	13800	1

Spares of C-POWER Air Circuit Breakers

Protection Releases



SR71



SR18G+D/SR18Gi+D



SR18G



DN1



Universal Test Kit

Description	Cat. No.	M.R.P. (₹) Per Unit
Protection Releases [8538]		
Microprocessor based type SR71	On Request	
Microprocessor based type SR18Gi+D	SL948130000	63000
Microprocessor based type SR18G+D	SL948120000	60000
Microprocessor based type SR18G	SL960300000	45000
Thermal-Magnetic Release type DN1	SL931520000	40000
Universal Test Kit	CL904620000	110400

Universal Test Kit

Compatible with following L&T 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

Upgrade to high end communicable Release SR71

Retrofit kit solutions are available

For further details please contact the nearest branch office



CT

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CTs for SR18G / SR18G+D / SR18Gi+D [8504]			
400 S1 Fix & Draw-out	SL015230000	7070	1
630 S1 Fix & Draw-out	ST374950000	7070	1
800 C/H/S1 Fix & Draw-out	SL018570000	7070	1
1000 C/H/S1 Fix & Draw-out	SL018580000	7070	1
1250 C/H/S1 Fix & Draw-out	SL905710000	8560	1
1600 C/H/S1 Fix & Draw-out	SL905720000	8560	1
2000 C/H Fix & Draw-out	SL905650000	9490	1
2000 S1 Draw-out	SL932100000	9490	1
2500 C/H Fix & Draw-out	SL905660000	9490	1
2500 S1 Draw-out	SL017400000	10900	1
3200 H2/H1 Draw-out	SL017390000	13100	1
4000 H2/H Draw-out	SL017390000	13100	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



L&T 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 environments.

For more details please
scan the QR code or click here



Customer Interaction Center (CIC)
BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com

CarryPRO J2015



Where continuity is crucial

The S-Line Busbar Trunking System from L&T Electrical & Automation provides reliable, safe and economic distribution solutions for commercial spaces.



Clarity/12/2014/RP

Key Features:

- Minimum transmission loss when compared to cables
- Current Rating: 250A to 6300A
- Rated Insulation Voltage - 1000V
- Class-F Halogen free insulation with RoHS compliance

- Maintenance free block set joints
- Enclosure: G.I. or Aluminium
- Ingress protection: IP-54, IP-55, IP-66
- Plug-in boxes with interlocking
- Excellent short circuit ratings up to 100kA

S-Line

Busbar Trunking System

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com



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 provide better protection.



Enhanced Durability

Customer Interaction Center (CIC)

BSNL/MTNL(toll free):1800 233 5858 Reliance (toll free):1800 200 5858

Tel: 022 6774 5858 Email:cic@Lntbg.com Web: Lntbg.com



Power Quality Solutions

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	1.8 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	0.35 W/kVAr	0.35 W/kVAr	0.45 W/kVAr	0.5 W/kVAr	0.45 W/kVAr	0.35 W/kVAr
Peak Inrush current withstand capability	200 x In	200 x In	250 x In	300 x In	250 x In	350 x In	300 x In	500 x In	500 x In
Number of switching operations per year	5000	5000	7500	8000	8000	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.	150000 hrs.	200000 hrs.	200000 hrs.	300000 hrs.	300000 hrs.

Standard Duty Capacitors

Features :

- Finger proof Sigut 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	304
	11.1 to 27.7	480	304
	13.2 to 33.1	525	304

Heavy Duty Capacitors

Features :

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



HD Plus Gas Filled Capacitor

Features :

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



Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCN	3 to 5	440	606
	7.5 to 15		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

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCH	1 to 4	440 V	508
	5 to 15		467
	20 to 30		455
	5.5 to 16.6	480 V	467
	22.1 & 27.7		455
	6.6 to 16.6	525 V	467
	20 to 33.1		455
Box Series: LTBCH	1 to 4	440 V	565
	5 to 15		479
	20 to 50		469
	5.5 to 15	480 V	503
	20 to 27.7		493
	6.6 to 15	525 V	503
	20 to 33.1		493

Power Quality Solutions

**Super Heavy Duty Capacitors



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	556
	11.1 & 15		548
	20 to 27.7		497
	1.3 to 5	525 V	656
	6.6 to 15		558
	20 to 33.3		507

LTXL - Ultra Heavy Duty Capacitors



Features :

- High over current withstand capacity $3 \times I_n$
- High Inrush current withstand capacity $500 \times I_n$
- Glazed ceramic bushing (In box type capacitor)
- Lower thermal impedance
- Designed to operate at temperature up to 70°C

Type	kVar Rating	Voltage (V)	M.R.P. (₹) per kVar
**Cylindrical Series : LTCCU	5 to 15	440V	1034
	20 & 25		1017
	7.5 to 15	480V	1034
	20		1017
	7.5 to 15	525V	1034
	20		1017
	5 to 15	440V	1169
	20 to 50		1146
	7.5 to 15	480V	1169
	20 to 30		1146
Box Series: LTBCU	7.5 to 15	525V	1169
	20 to 33.1		1146

** SHD (LTCCR) & LTXL Cyl (LTCCU) are long lead items. Contact nearest branch for delivery schedule & technical specs before ordering .

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
LTBCM	5, 7.5, 8.33, 10, 12.5, 15, 20, 25	-	-
LTCCH	1, 2, 3, 4, 5, 7.5, 10, 12.5, 15, 20, 25, 30	5.5, 11.1, 13.8, 16.6, 22.1, 27.7	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

APP Capacitors



Features :

- High over current withstand capacity $2.5 \times I_n$
- High Inrush current withstand capacity $300 \times I_n$
- Glazed ceramic bushing
- Tinned Copper studs

Type	kVar Rating	Voltage (V)	M.R.P. (₹) per kVar
Box Series: LTBCP	5 to 15	440 V	808
	20 to 50		782
	5.5 to 13.8	480 V	808
	16.6 to 55.3		782
	6.6 & 13.2		808
	16.6 to 66.2	525 V	782

Ordering Information for Capacitors

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

Power Quality Solutions

Detuned Reactors, 440 V, 50 Hz [8504]

- Copper & Aluminium wound reactors
- H-class insulation
- Lower operating losses
- 180% linearity*
- Thermal cut off
- Better Harmonic Blocking Capability [Quality Factor > 35]



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	9185	LTAL0701B2	6665	LTFR1401B2	17855	LTAL1401B2	11000
2	LTFR0702B2	10030	LTAL0702B2	7270	LTFR1402B2	19465	LTAL1402B2	11980
3	LTFR0703B2	11370	LTAL0703B2	8235	LTFR1403B2	22075	LTAL1403B2	13575
4	LTFR0704B2	12085	LTAL0704B2	8755	LTFR1404B2	23470	LTAL1404B2	14440
5	LTFR0705B2	13075	LTAL0705B2	9465	LTFR1405B2	25375	LTAL1405B2	15620
10	LTFR0710B2	18535	LTAL0710B2	13435	LTFR1410B2	35970	LTAL1410B2	23500
12.5	LTFR0712B2	20340	LTAL0712B2	14740	LTFR1412B2	39460	LTAL1412B2	25685
15	LTFR0715B2	22995	LTAL0715B2	17685	LTFR1415B2	42220	LTAL1415B2	30690
20	LTFR0720B2	25930	LTAL0720B2	19500	LTFR1420B2	50285	LTAL1420B2	34885
25	LTFR0725B2	27435	LTAL0725B2	19875	LTFR1425B2	53215	LTAL1425B2	35820
50	LTFR0750B2	43525	LTAL0750B2	31535	LTFR1450B2	84440	LTAL1450B2	52035
75	LTFR0775B2	64695	LTAL0775B2	46895	LTFR1475B2	125515	LTAL1475B2	77365
100	LTFR0700B2	88945	LTAL0700B2	64440	LTFR1400B2	172435	LTAL1400B2	106325

* 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, LTCCR	1.2	1.3	LTCCF, LTCCR	1.3	
2	LTCCF, LTCCR	2.2	2.6	LTCCF, LTCCR	2.6	
3	LTCCF, LTCCR	3.3	3.9	LTCCF, LTCCR	3.9	
4	LTCCF	4.4	5.3	LTCCF	5.3	
	LTCCR		5	LTCCR	5	
5	LTCCF, LTCCH, LTCCR, LTBCN, LTBCP	5.5	6.6	LTCCF, LTCCH, LTCCR, LTBCN, LTBCP	6.6	
	LTCCN, LTCNU, LTBCU	7.5	7.5	LTCCN, LTCNU, LTBCU	7.5	
10	LTCDD, LTCCH, LTCCR, LTBCD, LTBCN, LTBCP	11.1	13.2	LTCDD, LTCCH, LTCCR, LTBCD, LTBCN, LTBCP	13.2	
	LTCCN, LTCNU, LTBCU	12.5	12.5	LTCCN, LTCNU, LTBCU	12.5	
12.5	LTCCN, LTCCR, LTCNU, LTBCN, LTBCU	15	15	LTCCN, LTCCR, LTCNU, LTBCN, LTBCU	15	
	LTCDD, LTCCH, LTBCD, LTBCP	13.8	16.6	LTCDD, LTCCH, LTBCD, LTBCP	16.6	
15	LTCCN, LTCCR, LTCNU, LTBCN, LTBCU	20	20	LTCDD, LTCCN, LTCCH, LTCCR, LTCCU, LTBCD, LTBCN, LTBCP, LTBCU	20	
	LTCDD, LTCCH, LTBCD, LTBCP	16.6		LTBCD, LTBCN, LTBCP, LTBCU		
20	LTCCN, LTCCR, LTBCN, LTBCU	25	25	LTCCN, LTCCR, LTBCN, LTBCU	25	
	LTCDD, LTCCH, LTBCD, LTBCP	22.1	26.5	LTCDD, LTCCH, LTBCD, LTBCP	26.5	
	LTCNU	7.5 + 15	2 x 12.5	LTCNU	2 x 12.5	
25	LTCDD, LTCCH, LTCNU, LTBCD, LTBCN, LTBCP	27.7	33.1	LTCDD, LTCCN, LTCCH, LTCCR, LTBCD, LTBCN, LTBCP, LTBCU	30	
	LTBCU, LTCNU	30		LTCCU	(10+20)	
	LTCNU	12.5 + 15	15 + 20			
50	LTCDD, LTCCH, LTCNU, LTBCD, LTBCN	2 x 27.7	2 x 33.1	LTCDD, LTCCN, LTCCH, LTCCR, LTBCD, LTBCN, LTBCP, LTBCU	2 x 30	
	LTBCU, LTCNU	2 x 30		LTCCU	3 x 20	
	LTCNU	2 x (12.5 + 15)	2 x (15 + 20)			
	LTBCP	55.3	66.2			
75	LTCDD, LTCCH, LTCNU, LTBCD, LTBCN	3 x 27.7	3 x 33.1	LTCDD, LTCCN, LTCCH, LTCCR, LTBCD, LTBCN, LTBCP, LTBCU	3 x 30	
	LTBCU, LTCNU	3 x 30		LTCCU	(4 x 20) + 10	
	LTCNU	3 x (12.5 + 15)	3 x (15 + 20)			
	LTBCP	27.7 + 55.3	33.1 + 66.2			
100	LTCDD, LTCCH, LTCNU, LTBCD, LTBCN, LTBCP	4 x 27.7	4 x 33.1	LTCDD, LTCCN, LTCCH, LTCCR, LTBCD, LTBCN, LTBCP, LTBCU	4 x 30	
	LTBCU, LTCNU	4 x 30		LTCCU	6 x 20	
	LTCNU	4 x (12.5 + 15)	4 x (15 + 20)			
	LTBCP	2 x 55.3	2 x 66.2			

Power Quality Solutions

Capacitor Duty Contactors - Type MO C [8536]



Thyristor Switching Module, 440V 50Hz [8538]

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



		MO C25	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	2120	1
	5	MO C5	1NO	CS96127	2220	1
	8.5	MO C8.5	1NO	CS96320	2490	1
	10	MO C10	1NO	CS96156	2650	1
	12.5	MO C12.5	1NO	CS96321	2780	1
	15	MO C15	1NO	CS90019	3750	1
	20	MO C20	1NO	CS90021	4220	1
	25	MO C25▲	1NO	CS96322	4860	1
	30	MO C30\$	1NO	CS96148	7360	1
	40	MO C40	1NO	CS96147	12200	1
Fr 2	50	MO C50	1NO	CS96324	13400	1
	60	MO C60\$	1NO	CS96149	14700	1
Fr 3	75	MO C75	1NO	CS96150	17800	1
	85	MO C85	1NO	CS96157	19200	1
	100	MO C100\$	1NO	CS96158	19800	1

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)

Note :

- 1) For ordering add-on aux. contact block, please refer page No. 8
- 2) For ordering suffix, please refer page No.10
- 3) For ordering spare coils, please refer page No. 11
- 4) Standard coil voltage : 240V, 50/60 Hz
- 5) 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

Active Harmonic Filter (AHF) [8543]

Features :

- Reduces THD within IEEE - 519 limits
- Harmonic cancellation up to 50th order
- Improves both Distortion & Displacement Power Factor (Leading & Lagging)
- Load balancing
- 3 Phase 4 Wire AHF to be used where 3rd Harmonic Mitigation is required
- Modular Design allowing for future expansion
- Ease of Monitoring using Touch Screen HMI
- Customization as per site condition
- Communication : MODBUS RS485 Protocol Available



Filter Rating (A)	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	
75	AHF075431D2		AHF075441D2	
100	AHF100431D2		AHF100441D2	
150	AHF150431D2		AHF150441D2	
200	AHF200431D2		AHF200441D2	
225	AHF225431D2		AHF225441D2	
300	AHF300431D2		AHF300441D2	
400	AHF400431D2		-	
600	AHF600431D2			
800	AHF800431D2			

* Standard CAT. No. Configuration

Contact your nearest sales office for customised solutions:

Customisable Options Available:

IP Class : IP20/IP40/IP42

Cable Entry : Bottom / Top / Additional Cable Alley

Conformal coating (3C3)



Next Gen Power Quality Monitoring: **Elevate Efficiency with our Power Quality Meters**



WC7000
Power Quality Monitors



WC8000
Power Quality Analyzers

Take control of your operation with our Power Quality Meters!

Accurately measure power quality parameters to extend asset lifespan and take proactive steps to prevent issues.
Empower your maintenance strategy with WC7000 & WC8000 Power Quality Meters!

- **High Sampling Rate:** 1024 or 512 Samples/Cycle - Enhances power quality analysis precision
- **Tracking Power Quality Events** – Sag, Swell, Flicker, Transient, Interruption, Harmonics upto 127th Order(Odd, Even & inter Harmonics)
- **Dual Communication Port** – RS485 & Ethernet Port Enables seamless integration across systems simultaneously
- **IOT Enabled:** Seamless IoT Cloud integration for remote asset monitoring convenience
- **Power Quality Reports:** Produces IEEE519, EN 50160, IEC61000-4-30 & ITIC-CBEMA Curve reports

"Reach out to the nearest branch office for further information"

Customer Interaction Center (CIC)

BSNL/MTNL(toll free):1800 233 5858 Reliance (toll free):1800 200 5858
Tel: 022 6774 5858 Email:cic@Lntbg.com Web: Lntbg.com



APFC Controller [8538]

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

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



2 & 4 Quadrant Operation for sites with / without Solar Plants

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	CS910500000	144 x 144	19900
etaULTRA 16R	16	0		CS910510000		26300
etaULTRA 14T+2R	2	14		CS910530000		26300
etaULTRA 8T+8R	8	8		CS910540000		19900

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

APFC Controller [8538]

etaSMART - APFC Controller - 1 CT input

Features:

- Simple and Smart Controller
- Auto programming function available
- CT secondary - 1 / 5 Amp site selectable



2 & 4 Quadrant Operation for sites with / without Solar Plants

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	13755
8	144x144	CS916140000			16380
12	144x144	CS916150000			20055
15	144x144	CS916160000			23730

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	6950
6	96 x 96	CS908850000			8850
8	96 x 96	CS909020000			10500
12	144 x 144	CS909030000			18800
14	144 x 144	CS909040000			20800
16	144 x 144	CS909050000			22900

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

etaCON M5 APFC Controller

APFC controller for Contactor switching with 1 CT input

Features:

- CT secondary - 1 A / 5 A Site selectable
- Suitable for LT as well as HT side sensing



2 & 4 Quadrant Operation for sites with / without Solar Plants

No. of Steps	Single CT input	Voltage input	Cat. No.	Size	M.R.P. (₹) Per Unit
5 Steps*	1 A / 5 A	415V / 110V	ETACONM005R	96 X 96	15600
8 Steps*			ETACONM005R + ETACONEXP3R	96 X 96	19100

* Available till stock last



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

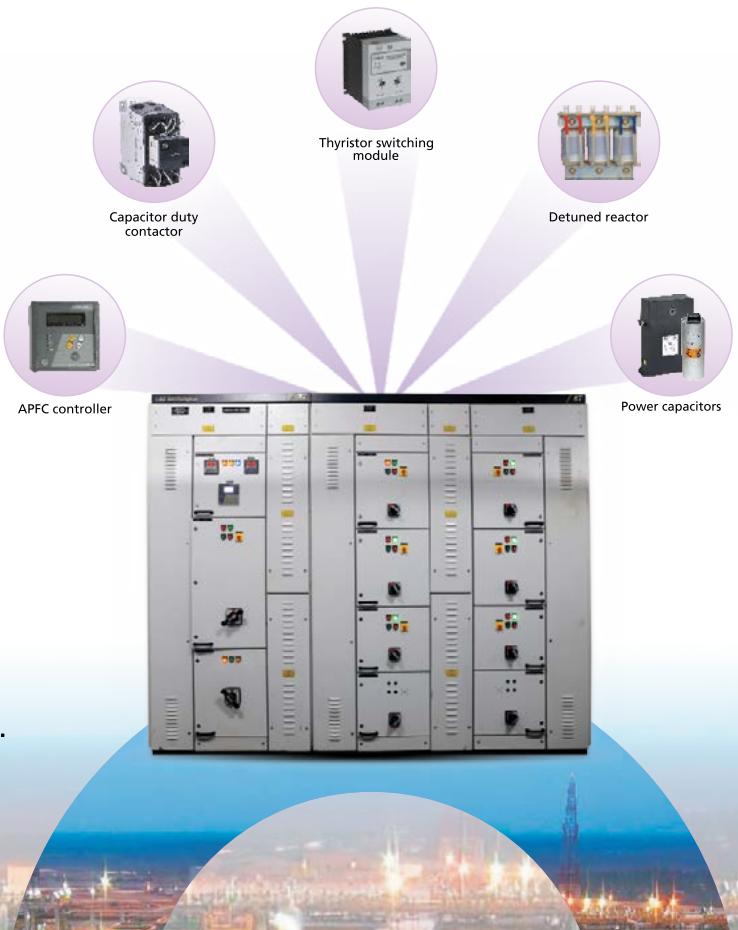
- Worry free PF management with 4 quadrant PF controller
- Certified for better thermal management as per IEC 61921
- Design verified assemblies of both constructional & permanence requirements
- Separate section for detuned reactors, capacitors & switchgear ensures longer life of components & less worry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

Panel Rating (kVAr)	Physical Step Size (kVAr)	No. of Physical Steps	Electrical Steps (All Possible Combination of Physical Steps)	No. of Electrical Steps
120	50 + 25 + 20 + 15 + 4 + 2x3	7	3,4,6,7,...114,116,117,120	85
125	50 + 2x25 + 15 + 4 + 2x3	7	3,4,6,7,...119,121,122,125	55
130	50 + 2x25 + 20 + 4 + 2x3	7	3,4,6,7,...124,126,127,130	60
135	2x50 + 15 + 10 + 4 + 2x3	7	3,4,6,7,...129,131,132,135	65
140	2x50 + 20 + 10 + 4 + 2x3	7	3,4,6,7,...134,136,137,140	62
145	2x50 + 25 + 10 + 4 + 2x3	7	3,4,6,7,...139,141,142,145	65
150	2x50 + 25 + 15 + 4 + 2x3	7	3,4,6,7,...144,146,147,150	66
155	2x50 + 25 + 15 + 3x5	7	5,10,15,20,...145,150,155	31
175	2x50 + 2x25 + 10 + 3x5	8	5,10,15,20,...165,170,175	35
200	2x50 + 3x25 + 15 + 2x5	8	5,10,15,20...190,195,200	40
225	3x50 + 2x25 + 15 + 10	7	10,15,25,35...210,215,225	27
250	3x50 + 3x25 + 15 + 10	8	10,15,25,35...235,240,250	30
275	4x50 + 2x25 + 15 + 10	8	10,15,25,35...260,265,275	33
300	100 + 2x50 + 3x25 + 15 + 10	8	10,15,25,35...285,290,300	36
325	100 + 3x50 + 2x25 + 15 + 10	8	10,15,25,35...310,315,325	39
350	100 + 4x50 + 25 + 15 + 10	8	10,15,25,35...335,340,350	42
375	2x100 + 2x50 + 2x25 + 15 + 10	8	10,15,25,35...360,365,375	45
400	2x100 + 2x50 + 4x25	8	25,50,75,100...350,375,400	16
425	2x100 + 3x50 + 3x25	8	25,50,75,100...375,400,425	17
450	2x100 + 3x50 + 4x25	9	25,50,75,100...400,425,450	18
475	2x100 + 4x50 + 3x25	9	25,50,75,100...425,450,475	19
500	2x100 + 5x50 + 2x25	9	25,50,75,100...450,475,500	20

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.

Protection Relays [8536]

3 Phase Over Current + Earth Fault Relay

C.T. Rating 1A or 5A, Field Selectable



- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC31AnX*	24 - 240V AC/ DC	2 NO + 2 NC	51, 51N	MC31ANX2200	21000
		4 NO		MC31ANX4000	

Single Pole Over Current or Earth Fault Relay

C.T. Rating 1A or 5A, Not Field Selectable



- IDMT and Definite time characteristics

Model	Aux. Supply (V)	C.T. Secondary (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC12*	20 - 110V AC/DC	1A	50, 51 or 50N, 51N	MC12AA10X00	14800
		5A		MC12AA50X00	
	88 - 264V AC/DC	1A	50N, 51N	MC12AB10X00	
		5A		MC12AB50X00	

3 Phase Over Current + Earth Fault Relay with High Set

C.T. Rating 1A or 5A, Field Selectable



- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC61AnX*	24 - 240V AC/ DC	2 NO + 2 NC	51, 51N,	MC61ANX2200	23000
		4 NO	50, 50N	MC61ANX4000	

Reverse Power Relay

C.T. Rating 1A or 5A, Not Field Selectable



- System Voltage is site selectable - 110V / 415V AC

Model	Aux. Supply (V)	C.T. Secondary (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MRP11*	20 - 110V AC/DC	1A	32	MRP11A10X00	24500
		5A		MRP11A50X00	
	88 - 264V AC/DC	1A	5A	MRP11B10X00	
		5A		MRP11B50X00	

3 Phase Over Current + Earth Fault Relay with High Set & RS - 485 Port

C.T. Rating 1A or 5A, Field Selectable



- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC61CnX*	24 - 240V AC/ DC	4 NO	51, 51N, 50, 50N	MC61CNX4000	25500

Trip Circuit Supervision Relay



- Static Relay.
- Monitors Trip Coil in Breaker ON & OFF condition
- Site selectable Trip Coil Voltage

Model	Aux. Supply (V)	Cat. No.	M.R.P. (₹) Per Unit
TCS01nX*	20 - 110 V AC/ DC 88 - 264 V AC/ DC	TCS01NXA000 TCS01NXB000	8500

* Available till stock last



Protection Relays [8536]

MV12

Single Phase Under Voltage or Over Voltage Relay

- System Voltage is site selectable - 110 / 240 / 415V AC



Model	Aux. Supply (V)	Device code	Cat. No.	M.R.P. (₹) Per Unit
MV12*	20 - 110V AC/DC	27 or 59	MV12AA00X00	14800
	88 - 264V AC/DC		MV12AB00X00	

* Available till stock last

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)



ANSI Code - 86

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	
				220VDC	L1H32DC220X	
				230VAC	L1H32AC230X	

Auxiliary Relay - AuxR

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	
				220VDC	A3H40DC220X	
				230VAC	A3H40AC230X	
Three element Auxiliary relay	2 N/O + 2 N/C	Auto	Hand	24VDC	A3A22DC024X	12000
				110VDC	A3A22DC110X	
				220VDC	A3A22DC220X	
				230VAC	A3A22AC230X	

Metering Devices [9028]

Single Phase kWh meter with LCD display

Model EM101+ Class 1 Base mounting



3 Phase 4 Wire kWh meter LCD type

Model ER300P Base Mounting



Description	Cat. No.	M.R.P. (₹) Per Unit
1P LCD Meter 5-30A	WM101BC5DL0	1820
1P LCD Meter 5-30A with BOX	WM101BC5DL0BOX	2430
1P LCD Meter 5-30A with OPTICAL PORT	WM101BC5DDH	2500
1P LCD Meter 5-30A with Optical port + BOX	WM101BC5DDHBOX	3110
1P LCD Meter 10-60A	WM101BC7DL0	2150
1P LCD Meter 10-60A with BOX	WM101BC7DL0BOX	2710
1P LCD Meter 10-60A with Optical Port	WM101BC7DDH	2750
1P LCD Meter 10-60A with Optical Port + BOX	WM101BC7DDHBOX	3160
1P LCD Meter 5-30 with Optical Port + RS232	WM101BC5DLMSC	2800

Trivector Meter Class 1 whole current meter

Model ER300P Class 1 (Base Mounting)



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 240 V 10 - 60A BM	WR300BC7300	8580
3Ph, 4W TVM 240 V 10 - 60A BM RS 485Modbus*	WR300BC73RS485	12240
3Ph, 4W TVM 240 V 10 - 60A BM with Hinge type Box	WR300BC73BOXH	10630

*- 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)



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 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

Meter Reading Instrument [8471]



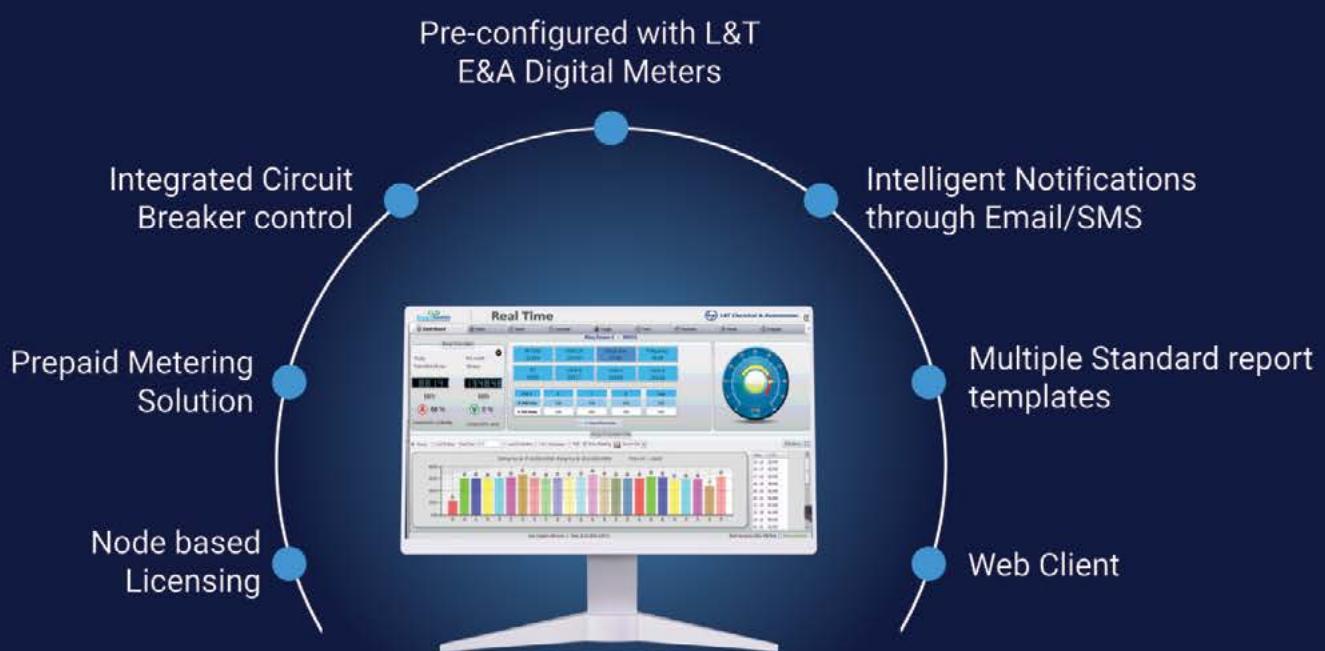
Description	Cat. No.	M.R.P. (₹) Per Unit
Meter Reading Instrument - (16.5 MB)	990MRIXX000	146460
Meter Optical port to USB cable	990PCXXUSB	1750



THE ENERGY MANAGEMENT SYSTEM THAT FOSTERS ENERGY EFFICIENCY



SmartComm EMS is a simple yet robust solution for organizations seeking to optimize energy consumption and operational efficiency, all within a user-friendly environment. The on-premise implementation gives you direct control and oversight of energy-related data, allowing for real-time monitoring, analysis, and decision-making through an intuitive and easy-to-use interface. With cutting edge features, SmartComm EMS empowers you to proactively manage energy usage, identify savings opportunities, and ensure compliance with sustainability goals and regulations.



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 VAC
- 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	925
1Ph LED Voltmeter CI 1	WL1120100000	925
3Ph LED Ammeter CI 1	WL1310100000	1395
3Ph LED Voltmeter CI 1	WL1320100000	1395
LED Freq meter CI 0.2	WL1130400000	925
1Ph LED Ammeter CI 0.5	WL1110200000	1245
1Ph LED Voltmeter CI 0.5	WL1120200000	1245
3Ph LED Ammeter CI 0.5	WL1310200000	1680
3Ph LED Voltmeter CI 0.5	WL1320200000	1680

VAF + PF Meters [9030]

4110 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 + PF meter, CI 1	WL4110100000	2380
VAF + PF meter with RS485, CI 1	WL4110110000	2980
VAF + PF meter, CI 0.5	WL4110200000	2735
VAF + PF meter with RS485, CI 0.5	WL4110210000	3310

Counter type Energy Meter [9030]

4030 Series



Features

- Accuracy Class 1.0
- Flush mounting 96 x 96 mm
- Available with sealing arrangement
- Parameter : kWh

Description	Cat. No.	M.R.P. (₹) Per Unit
kWh Counter type meter CI 1 (3Ph 4W 240V 5A)*	WL4030100000	3705

* for availability please contact nearest branch office.

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	2810
kWh LED meter CI 1 with RS485	WL4000110000	3160
kWh LED meter CI 0.5	WL4000200000	3570
kWh LED meter CI 0.5 with RS485	WL4000210000	3870
kWh LCD meter CI 1	WC4000100000	3180
kWh LCD meter CI 1 with RS485	WC4000110000	3510
kWh LCD meter CI 0.5	WC4000200000	3940
kWh LCD meter CI 0.5 with RS485	WC4000210000	4240

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

DIN Basic Multifunction Meters [9030]

4000 Series

- Parameters: Voltage, Current, kW, kWh, PF#, KVA#, KVAr#, MD#



till stocks lasts

Description	Cat. No.	M.R.P. (₹) Per Unit
Energy meter 1P 5-40A CI 1 DIN	WD4000101000	2630
Energy meter 3P 10-60A CI 1 DIN	WD4000103000	5975
Energy meter RS485 module	WD400010RS00	2630

Parameter Available in 3P Model

New 4010 Series



- DIN mounting whole current operated meter

- Accuracy Class 1.0

- Inbuilt RS485 option

- Parameters: Voltage, Current, kW, kWh, kVA, KVAr, RPM, Load hours, Interruptions

Description	Module	Cat. No.	M.R.P. (₹) Per Unit
Single Phase - 60A	2	WD4010100000	2630
Three Phase - 80A	5	WD4020100000	5975
Single Phase - 60A (RS485)	2	WD4010110000	4200
Three Phase - 80A (RS485)	5	WD4020110000	8605



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: V, A, F, PF, kW, kVA, Run hours, kWh (EB and DG), Old energy, Site selectable kWh / kVAh



LCD offers better readability of parameters

kWh or kVAh
is site selectable

Description	Cat. No.	M.R.P. (₹) Per Unit
Dualsource LED meter CI1	WL4040100000	4600
Dualsource LED meter CI1 with RS485	WL4040110000	5415
Dualsource LED meter CI0.5	WL4040200000	5470
Dualsource LED meter CI0.5 with RS485	WL4040210000	6405
Dualsource LCD meter CI1	WC4040100000	5060
Dualsource LCD meter CI1 with RS485	WC4040110000	5890
Dualsource LCD meter CI0.5	WC4040200000	5940
Dualsource LCD meter CI0.5 with RS485	WC4040210000	6795

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
- 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



LCD offers better readability of parameters

All parameters
of 4400 series
in 3 line
LED display

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



Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4405 LED meter CI 1	WL4405100000	6010
MFM 4405 LED meter CI 1 with RS485	WL4405110000	6785
MFM 4405 LED meter CI 0.5 with RS485	WL4405210000	7800
MFM 4405 LED meter CI 0.5S with RS485	WL4405310000	7865

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 CI 1	WL4410100000	8420
MFM 4410 LED meter CI 1 with RS485	WL4410110000	9165
MFM 4410 LED meter CI 0.5 with RS485	WL4410210000	10880
MFM 4410 LED meter CI 0.5S with RS485	WL4410310000	12025
MFM 4410 LED meter CI 0.2 with RS485	WL4410410000	14315
MFM 4410 LED meter CI 0.2S with RS485	WL4410510000	18320
MFM 4410 LCD meter CI 1	WC4410100000	9900
MFM 4410 LCD meter CI 1 with RS485	WC4410110000	10595
MFM 4410 LCD meter CI 0.5 with RS485	WC4410210000	12360
MFM 4410 LCD meter CI 0.5S with RS485	WC4410310000	13540
MFM 4410 LCD meter CI 0.2 with RS485	WC4410410000	15890
MFM 4410 LCD meter CI 0.2S with RS485	WC4410510000	20005

Multifunction Meters [9030]

4420 Series Max Demand Indicator (without Real time clock)

Parameters:

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

2 Relay outputs for MD Alarm

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4420 LED meter CI 1	WL4420100000	12400
MFM 4420 LED meter CI 1 with RS485	WL4420110000	12920
MFM 4420 LED meter CI 0.5 with RS485	WL4420210000	14610
MFM 4420 LED meter CI 0.5S with RS485	WL4420310000	15735
MFM 4420 LED meter CI 0.2 with RS485	WL4420410000	17980
MFM 4420 LED meter CI 0.2S with RS485	WL4420510000	21915
MFM 4420 LCD meter CI 1	WC4420100000	14200
MFM 4420 LCD meter CI 1 with RS485	WC4420110000	14720
MFM 4420 LCD meter CI 0.5 with RS485	WC4420210000	16485
MFM 4420 LCD meter CI 0.5S with RS485	WC4420310000	17655
MFM 4420 LCD meter CI 0.2 with RS485	WC4420410000	20005
MFM 4420 LCD meter CI 0.2S with RS485	WC4420510000	24135

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

4430 Series MFM for IE

Parameters:

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

2 Relay outputs for MD Alarm

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4430 LED meter CI 1	WL4430100000	17400
MFM 4430 LED meter CI 1 with RS485	WL4430110000	17660
MFM 4430 LED meter CI 0.5 with RS485	WL4430210000	19260
MFM 4430 LED meter CI 0.5S with RS485	WL4430310000	20330
MFM 4430 LED meter CI 0.2 with RS485	WL4430410000	22475
MFM 4430 LED meter CI 0.2S with RS485	WL4430510000	26220
MFM 4430 LCD meter CI 1	WC4430100000	18500
MFM 4430 LCD meter CI 1 with RS485	WC4430110000	18725
MFM 4430 LCD meter CI 0.5 with RS485	WC4430210000	20330
MFM 4430 LCD meter CI 0.5S with RS485	WC4430310000	21400
MFM 4430 LCD meter CI 0.2 with RS485	WC4430410000	23540
MFM 4430 LCD meter CI 0.2S with RS485	WC4430510000	27290

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 CI 1 with RS485	WL4440110000	14775
MFM 4440 LED meter CI 0.5 with RS485	WL4440210000	16610
MFM 4440 LED meter CI 0.2 with RS485	WL4440410000	20310
MFM 4440 LCD meter CI 1 with RS485	WC4440110000	16005
MFM 4440 LCD meter CI 0.5 with RS485	WC4440210000	17845
MFM 4440 LCD meter CI 0.2 with RS485	WC4440410000	21540

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

True and Displacement PF available

Parameters:

- 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

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 CI 1 with RS485	WL5000110000	32730
MFM 5000 LED meter CI 1 with Ethernet	WL5000120000	37190
MFM 5000 LED meter CI 0.5 with Ethernet	WL5000220000	38785
MFM 5000 LED meter CI 0.5S with Ethernet	WL5000320000	39850
MFM 5000 LCD meter CI 1 with RS485	WC5000110000	33800
MFM 5000 LCD meter CI 1 with Ethernet	WC5000120000	38255
MFM 5000 LCD meter CI 0.5 with RS485	WC5000210000	35385
MFM 5000 LCD meter CI 0.5S with RS485	WC5000310000	36455
MFM 5000 LCD meter CI 0.5 with Ethernet	WC5000220000	39850
MFM 5000 LCD meter CI 0.5S with Ethernet	WC5000320000	40910
MFM 5000 LCD meter CI 0.2 with RS485	WC5000410000	38575
MFM 5000 LCD meter CI 0.2S with RS485	WC5000510000	42295
MFM 5000 LED meter CI 1 RS485 2A/O	WL500011OBOO	35380
MFM 5000 LED meter CI 0.5 RS485 2D/I	WL500021OOBO	36975
MFM 5000 LED meter CI 0.5 RS485 4D/O	WL500021OOOD	38040
MFM 5000 LCD meter CI 1 RS485 2A/O	WC500011OBOO	36450
MFM 5000 LCD meter CI 0.5 RS485 2D/I	WC500021OOBO	38040
MFM 5000 LCD meter CI 0.5 RS485 4D/O	WC500021OOOD	39105
MFM 5000 LCD meter CI 1 + RS485, 1AO, 1DO	WC500011OAOA	36685

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	12600
MFM 5010 LED meter Cl 1 with RS485	WL5010110000	13145
MFM 5010 LED meter Cl 0.5S	WL5010300000	15500
MFM 5010 LED meter Cl 0.5S with RS485	WL5010310000	15880
MFM 5010 LED meter Cl 0.2 with RS485	WL5010410000	18075

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 preconfigured for 9 parameters including kWh, Running demand and Max Demand for 15 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	27990
MDC 6000 LED meter Cl 0.5S with RS485	WL6000310000	30680
MDC 6000 LCD meter Cl 1 with RS485	WC6000110000	29065
MDC 6000 LCD meter Cl 0.5S with RS485	WC6000310000	31760

Prepaid Metering Solutions with SmartComm EMS [9030]



- Dual source meters by default
- Class 1 accuracy as per IS 15884
- Ratings : 1P (10-60A) : 3P (10-60A, 20-80A, CT operated)
- Parameters: V, A, PF, W, VA, Wh - EB, DG
- Communication: Wired (Modbus RS485) or Wireless (LoRaWAN)
- Facility for connection or disconnection of electric supply based on the credit balance in the meter through relay
- Optional
 - In RS485 model upto 4DI for water and gas meter
 - In LoRaWAN model upto 2DI for water and gas meters
- Wireless postpaid or prepaid metering solutions for large townships on SmartComm EMS Platform available.
- With LoRaWAN technology, meters upto 1 km approx from LoRa Gateway can be monitored without Line of sight.
- Prices available on request.

New Smartcomm Edge [8517]



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

MQ1000

- MQTT Gateway with ethernet port
- Easy integration with Smartcomm EMS Cloud
- Compact & Secure
- Data storage in case of network failure



TG1000

- Modbus RS485 to MODBUS TCP/IP Gateway
- Easy integration with Smartcomm EMS/PMS On-prem or 3rd party Software/HMI



Description	Cat. No.	M.R.P. (₹) Per Unit
MQTT Gateway with Ethernet port	MQ10000000	36000

Description	Cat. No.	M.R.P. (₹) Per Unit
MODBUS RTU to TCP/IP Gateway	TG10000000	20000

Empowering You with Energy Insights, Anytime, Anywhere!



EMS on Cloud simplifies energy monitoring with real time data

Smartcomm EMS on Cloud empowers business owners and plant heads to seamlessly monitor energy usage & efficiency across operations and facilities. With our subscription-based software license, harness the power of cloud with minimal investment, faster deployment, seamless updates and easy scalability. Businesses owners can now track and take decisions on energy optimization based on real-time as well as historical insights, thereby reducing energy costs and increasing business efficiency.

- **Accessibility:** Accessible from anywhere, enabling remote monitoring and management
- **Cost-Effectiveness:** Lower upfront costs reducing IT maintenance expenses
- **Integration:** Integrate with IoT devices for a comprehensive energy management solution
- **Updates and Maintenance:** Automatic software updates and maintenance
- **Data Analytics:** Data Analytics at its best through widget-based dashboards and reports
- **Key Performance Indicators:** Intelligent Notifications through SMS and Email based alerts and alarms

Customer Interaction Center (CIC)

BSNL/MTNL(toll free):1800 233 5858 Reliance (toll free):1800 200 5858
Tel: 022 6774 5858 Email:cic@Lntbg.com Web: Lntbg.com

AC Drive Solutions from L&T Electrical & Automation

Based on experience. Backed by commitment.



Hx2000 | HVAC Drive

Hx2000 AC drive adds a new dimension to our AC Drive Solutions.

Built to stringent quality standards, the Hx2000 is tested and certified to meet global benchmarks, thus giving you the assurance of total reliability.

It sets the standard for the drive industry by introducing Innovative Energy Reduction, Environment friendly features for HVAC System that incorporates the outstanding energy saving benefits for Fans & Pump application.

Range: 0.75kW to 90kW

Features:

- Built-in RTC for Scheduling
- Built-in EMC filter as default (C3)
- Built-in 4 PID (1 Main & 3 EPID)
- Multiple-Motor Control
(1 main motor and 5 auxiliary motors)
- Built-in Payback Counter
- Pump Clean Control
- V/F, Slip Compensation
- Fire Mode
- Flow Compensation
- Password Protection
- Built-in RS485 Communication for HVAC
 - BACnet, Modbus-RTU, Metasys N2
- Lubrication Control
- Dry Pump Detection
- Global Compliant- UL Plenum Rated, CE

Customer Interaction Center (CIC)

BSNL / MTNL (toll free): 1800 233 5858 Reliance (toll free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com



Nx2000⁺

High on compactness,
Higher on functionality



- Complying to IEC 61800 - 3 Standard
- Reduced electrical noise and more immune to external noise



- LTOP-DOP-52 : Easy to mount on panel door
- Comes with 3 metre cable



- 2 Nos Multifunctional Relay Output
- Rating: 250VAC/30VDC-1A



- Easy to fix
- Allows quick installation for side by side mounting

Fx2000

Internally mounted
PLC optional module



- Digital Points: 6 Nos (NPN/PNP))
- Digital Output points: 4 Nos (Relay)
- RS-232 port to download program from KGLWIN
- RS485 (Modbus-RTU) port for Master/Slave Configuration
- 2 Nos LED indication (Green: RUN LED, Red: ERROR LED)
- 3 step switch for RUN, PAU/REM, STOP
- Built-in RTC (Real Time Clock) for various Clock functions
- Data of latch area and RTC data through using CR2032 lithium battery



AC Drives [8504]



New Series Nx2000 & Nx2000⁺



- Range: 0.2 kW to 11 kW
- Simplified sensorless vector control
- Built-in EMC filter to meet IEC 61800-3
- Built-in Potentiometer
- DIN Rail mounting for Side-by-Side installation
- Built-in PID
- Built-in Brake Control
- Conformal Coating complying to IEC 60721-3-3 class 3C3 Avg.
- Built-in RS485 Modbus RTU
- Interface:
Nx2000: 5DI, 2DO (R), 2AI (V & V/I), 1AO (V)
Nx2000+: 5DI, 2DO (R), 2AI (V & I), 1AO (V)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Single Phase 230VAC	Nx2000 230V 1Ph Drive 0.20 kW (HD)	LTVF-N101P4BAA	*
	Nx2000 230V 1Ph Drive 0.40 kW (HD)	LTVF-N102P4BAA	*
	Nx2000 230V 1Ph Drive 0.75 kW (HD)	LTVF-N104P2BAA	*
	Nx2000 230V 1Ph Drive 1.50 kW (HD)	LTVF-N107P5BAA	*
	Nx2000 230V 1Ph Drive 2.20 kW (HD)	LTVF-N110P0BAA	*
Three Phase 230VAC	Nx2000+ 230V Drive 0.40kW(HD)/0.75kW(ND)	LTVF-N203P1BAA	*
	Nx2000+ 230V Drive 0.75kW(HD)/1.50kW(ND)	LTVF-N206P0BAA	*
	Nx2000+ 230V Drive 1.50kW(HD)/2.20kW(ND)	LTVF-N209P6BAA	*
	Nx2000+ 230V Drive 2.20kW(HD)/3.70kW(ND)	LTVF-N212P0BAA	*
	Nx2000+ 230V Drive 4.00kW(HD)/5.50kW(ND)	LTVF-N218P0BAA	*
	Nx2000+ 230V Drive 5.50kW(HD)/7.50kW(ND)	LTVF-N230P0BAA	*
Three Phase 415VAC	Nx2000+ 415V Drive 0.40kW(HD)/0.75kW(ND)	LTVF-N402P0BAA	*
	Nx2000+ 415V Drive 0.75kW(HD)/1.50kW(ND)	LTVF-N403P1BAA	*
	Nx2000+ 415V Drive 1.50kW(HD)/2.20kW(ND)	LTVF-N405P1BAA	*
	Nx2000+ 415V Drive 2.20kW(HD)/3.70kW(ND)	LTVF-N406P9BAA	*
	Nx2000+ 415V Drive 4.00kW(HD)/5.50kW(ND)	LTVF-N410P0BAA	*
	Nx2000+ 415V Drive 5.50kW(HD)/7.50kW(ND)	LTVF-N416P0BAA	*
	Nx2000+ 415V Drive 7.50kW(HD)/11.0kW(ND)	LTVF-N423P0BAA	*

Note: * For prices please contact nearest branch office

Smart Series Sx2000



- Range: 0.75kW to 90kW
- Starting Torque: 150% at 3 Hz for V/F, 200% at 0.5Hz for Sensorless Vector Control
- Built-in Brake Control
- Built-in PLC functionality
- Peer to Peer Communication to share I/O's
- Conformal Coating complying to IEC 60721-3-3 Class 3C3 Avg.
- Built-in RS485 Modbus RTU
- Component Life Monitor
- Built-in Braking Chopper till 30kW ND
- Interface :
Upto 30kW ND: 7DI, 2DO (R+T), 2AI (V & V/I), 1AO (V/I)
From 37kW ND: 7DI, 3DO (2R+T), 2AI (V & V/I), 2AO (V & V/I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Single Phase 230Vac	Sx2000 VVVF 230V 1Ph Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S10003BAA	*
	Sx2000 VVVF 230V 1Ph Drive 0.75 kW (HD) / 1.5 kW (ND)	LTVF-S10006BAA	*
	Sx2000 VVVF 230V 1Ph Drive 1.5 kW (HD) / 2.20 kW (ND)	LTVF-S10010BAA	*
	Sx2000 VVVF 230V 1Ph Drive 2.2 kW (HD) / 3.70 kW (ND)	LTVF-S10012BAA	*
Three Phase 230Vac	Sx2000 VVVF 230V 3Ph Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S20003BAA	*
	Sx2000 VVVF 230V 3Ph Drive 0.75 kW (HD) / 1.5 kW (ND)	LTVF-S20006BAA	*
	Sx2000 VVVF 230V 3Ph Drive 1.5 kW (HD) / 2.20 kW (ND)	LTVF-S20010BAA	*
	Sx2000 VVVF 230V 3Ph Drive 2.2 kW (HD) / 3.70 kW (ND)	LTVF-S20012BAA	*
	Sx2000 VVVF 230V 3Ph Drive 4.0 kW (HD) / 5.5 kW (ND)	LTVF-S20018BAA	*
	Sx2000 VVVF 230V 3Ph Drive 5.5 kW (HD) / 7.5 kW (ND)	LTVF-S20030BAA	*
	Sx2000 VVVF 230V 3Ph Drive 7.5 kW (HD) / 11 kW (ND)	LTVF-S20040BAA	*
	Sx2000 VVVF 230V 3Ph Drive 11 kW (HD) / 15 kW (ND)	LTVF-S20056BAA	*
	Sx2000 VVVF 230V 3Ph Drive 15 kW (HD) / 18.5 kW (ND)	LTVF-S20069BAA	*
Three Phase 415Vac	Sx2000 VVVF 415V Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S40002BAA	*
	Sx2000 VVVF 415V Drive 0.75 kW (HD) / 1.50 kW (ND)	LTVF-S40003BAA	*
	Sx2000 VVVF 415V Drive 1.50 kW (HD) / 2.20 kW (ND)	LTVF-S40005BAA	*
	Sx2000 VVVF 415V Drive 2.20 kW (HD) / 3.7 kW (ND)	LTVF-S40007BAA	*
	Sx2000 VVVF 415V Drive 4.00 kW (HD) / 5.50 kW (ND)	LTVF-S40010BAA	*
	Sx2000 VVVF 415V Drive 5.50 kW (HD) / 7.50 kW (ND)	LTVF-S40016BAA	*
	Sx2000 VVVF 415V Drive 7.50 kW (HD) / 11.0 kW (ND)	LTVF-S40023BAA	*
	Sx2000 VVVF 415V Drive 11.0 kW (HD) / 15.0 kW (ND)	LTVF-S40030BAA	*
	Sx2000 VVVF 415V Drive 15.0 kW (HD) / 18.5 kW (ND)	LTVF-S40038BAA	*
	Sx2000 VVVF 415V Drive 18.5 kW (HD) / 22.0 kW (ND)	LTVF-S40044BAA	*
	Sx2000 VVVF 415V Drive 22.0 kW (HD) / 30.0 kW (ND)	LTVF-S40058BAA	*
	Sx2000 VVVF 415V Drive 30.0 kW (HD) / 37.0 kW (ND)	LTVF-S40075BAA	*
	Sx2000 VVVF 415V Drive 37.0 kW (HD) / 45.0 kW (ND)	LTVF-S40091BAA	*
	Sx2000 VVVF 415V Drive 45.0 kW (HD) / 55.0 kW (ND)	LTVF-S40107BAA	*
	Sx2000 VVVF 415V Drive 55.0 kW (HD) / 75.0 kW (ND)	LTVF-S40142BAA	*
	Sx2000 VVVF 415V Drive 75.0 kW (HD) / 90.0 kW (ND)	LTVF-S40169BAA	*

Note:

* For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90 and are charged at 18% GST.

AC Drives [8504]

Smart Series Sx2000 IP66



- Range: 0.40 to 22kW (HD)
- V/F, Slip Compensation, Sensorless Vector Control
- Starting Torque: 150% at 3Hz for V/F, 200% at 0.5Hz for Sensorless Vector Control
- Conformal Coating complying to IEC 60721-3-3, Class 3C3 Avg.
- Built-in RS485 Modbus
- Peer to Peer communication to share I/Os
- Built-in Brake Control
- Built-in PLC functionality
- Component Life Monitor
- Built-in PID
- Built-in Braking Chopper
- Interface: 5DI, 2DO (R+T), 2AI (V & V/I), 1AO (V/I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Sx2000 VVVF 415V IP66 Drive 0.40 kW (HD)	LTVF-S40001XAA	*
	Sx2000 VVVF 415V IP66 Drive 0.75 kW (HD)	LTVF-S40003XAA	*
	Sx2000 VVVF 415V IP66 Drive 1.50 kW (HD)	LTVF-S40004XAA	*
	Sx2000 VVVF 415V IP66 Drive 2.20 kW (HD)	LTVF-S40006XAA	*
	Sx2000 VVVF 415V IP66 Drive 4.00 kW (HD)	LTVF-S40009XAA	*
	Sx2000 VVVF 415V IP66 Drive 5.50 kW (HD)	LTVF-S40012XAA	*
	Sx2000 VVVF 415V IP66 Drive 7.50 kW (HD)	LTVF-S40016XAA	*
	Sx2000 VVVF 415V IP66 Drive 11.0 kW (HD)	LTVF-S40024XAA	*
	Sx2000 VVVF 415V IP66 Drive 15.0 kW (HD)	LTVF-S40030XAA	*
	Sx2000 VVVF 415V IP66 Drive 18.5 kW (HD)	LTVF-S40039XAA	*
	Sx2000 VVVF 415V IP66 Drive 22.0 kW (HD)	LTVF-S40045XAA	*

Note: * For prices please contact nearest branch office

Flexi Series Fx2000



- Range: 0.75kW to 375kW (HD)
- Ideal for Heavy Duty Applications - Crane, Winder, Textile Application, Plastic extruders
- Starting Torque: 250% at 0Hz for Closed Loop Vector Control
- Overload Capacity: 200% for 3 sec and 150% for 1 min
- Built-in Crane function
- Optional Smart PLC Card
- Conformal Coating complying to IEC 60721-3-3 Class 3C3 Avg.
- Built-in RS485 Modbus RTU
- Built-in DC Reactor from 22kW to 220kW HD
- Built-in Braking Chopper till 22kW HD
- Interface : 8DI, 3DO (2R+1T), 2AI (V & I), 2AO (V & I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Fx2000 VVVF 415V Drive 0.75 kW (HD) / 1.50 kW (ND)	LTVF-F40004CAA	*
	Fx2000 VVVF 415V Drive 1.50 kW (HD) / 2.20 kW (ND)	LTVF-F40006CAA	*
	Fx2000 VVVF 415V Drive 2.20 kW (HD) / 3.70 kW (ND)	LTVF-F40008CAA	*
	Fx2000 VVVF 415V Drive 3.70 kW (HD) / 4.00 kW (ND)	LTVF-F40012CAA	*
	Fx2000 VVVF 415V Drive 5.50 kW (HD) / 7.50 kW (ND)	LTVF-F40016CAA	*
	Fx2000 VVVF 415V Drive 7.50 kW (HD) / 11.0 kW (ND)	LTVF-F40024CAA	*
	Fx2000 VVVF 415V Drive 11.0 kW (HD) / 15.0 kW (ND)	LTVF-F40030CAA	*
	Fx2000 VVVF 415V Drive 15.0 kW (HD) / 18.5 kW (ND)	LTVF-F40039CAA	*
	Fx2000 VVVF 415V Drive 18.5 kW (HD) / 22.0 kW (ND)	LTVF-F40045CAA	*
	Fx2000 VVVF 415V Drive 22.0 kW (HD) / 30.0 kW (ND)	LTVF-F40061CAA	*
	Fx2000 VVVF 415V Drive 30.0 kW (HD) / 37.0 kW (ND)	LTVF-F40075CAA	*
	Fx2000 VVVF 415V Drive 37.0 kW (HD) / 45.0 kW (ND)	LTVF-F40091CAA	*
	Fx2000 VVVF 415V Drive 45.0 kW (HD) / 55.0 kW (ND)	LTVF-F40110CAA	*
	Fx2000 VVVF 415V Drive 55.0 kW (HD) / 75.0 kW (ND)	LTVF-F40152CAA	*
	Fx2000 VVVF 415V Drive 75.0 kW (HD) / 90.0 kW (ND)	LTVF-F40183CAA	*
	Fx2000 VVVF 415V Drive 90.0 kW (HD) / 110 kW (ND)	LTVF-F40223AAA	*
	Fx2000 VVVF 415V Drive 110 kW (HD) / 132 kW (ND)	LTVF-F40264AAA	*
	Fx2000 VVVF 415V Drive 132 kW (HD) / 160 kW (ND)	LTVF-F40325AAA	*
	Fx2000 VVVF 415V Drive 160 kW (HD) / 185 kW (ND)	LTVF-F40370AAA	*
	Fx2000 VVVF 415V Drive 185 kW (HD) / 220 kW (ND)	LTVF-F40432AAA	*
	Fx2000 VVVF 415V Drive 220 kW (HD) / 285 kW (ND)	LTVF-F40547AAA	*
	Fx2000 VVVF 415V Drive 285 kW (HD) / 315 kW (ND)	LTVF-F40613AAA	*
	Fx2000 VVVF 415V Drive 315 kW (HD) / 375 kW (ND)	LTVF-F40731AAA	*
	Fx2000 VVVF 415V Drive 375 kW (HD) / 450 kW (ND)	LTVF-F40877AAA	*

Note:

* For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90 and are charged at 18% GST.



AC Drives [8504]

HVAC Series Hx2000



- Range: 0.75 to 90kW
- V/F, Slip Compensation
- Built-in RTC for Scheduling
- Built-in EMC filter class C3
- Password Protection
- Multi-motor Control
- Built-in Payback Counter
- Dry Pump Detection
- Built-in 4 PID (1 Main & 3 EPID)
- Built-in RS485 Communication, BACnet, Modbus-RTU, Metasys N2
- Global Specification Compliant - CE, UL (Plenum Rated)
- Conformal Coating complying to IEC 60721-3-3, Class 3C2 (3C3 Avg.)
- Interface: 7DI, 6DO (5R+1T), 2AI (V & VI), 2AO (V & VI)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Hx2000 VVVF 415V Drive 0.75 kW (ND)	LTVF-H40002BAA	*
	Hx2000 VVVF 415V Drive 1.50 kW (ND)	LTVF-H40004BAA	*
	Hx2000 VVVF 415V Drive 2.20 kW (ND)	LTVF-H40006BAA	*
	Hx2000 VVVF 415V Drive 3.7 kW (ND)	LTVF-H40008BAA	*
	Hx2000 VVVF 415V Drive 5.50 kW (ND)	LTVF-H40012BAA	*
	Hx2000 VVVF 415V Drive 7.50 kW (ND)	LTVF-H40016BAA	*
	Hx2000 VVVF 415V Drive 11.0 kW (ND)	LTVF-H40024BAA	*
	Hx2000 VVVF 415V Drive 15.0 kW (ND)	LTVF-H40030BAA	*
	Hx2000 VVVF 415V Drive 18.5 kW (ND)	LTVF-H40038BAA	*
	Hx2000 VVVF 415V Drive 22.0 kW (ND)	LTVF-H40045BAA	*
	Hx2000 VVVF 415V Drive 30.0 kW (ND)	LTVF-H40061BAA	*
	Hx2000 VVVF 415V Drive 37.0 kW (ND)	LTVF-H40075BAA	*
	Hx2000 VVVF 415V Drive 45.0 kW (ND)	LTVF-H40091BAA	*
	Hx2000 VVVF 415V Drive 55.0 kW (ND)	LTVF-H40107BAA	*
	Hx2000 VVVF 415V Drive 75.0 kW (ND)	LTVF-H40142BAA	*
	Hx2000 VVVF 415V Drive 90.0 kW (ND)	LTVF-H40169BAA	*

Note: * For prices please contact nearest branch office

Accessories for AC Drives [8504]

Drive Model	Description	Cat. No.	M.R.P. (₹) Per Unit
Nx2000	Nx2000 Remote Keypad with 3m cable	LTOP-DOP-51	*
Nx2000+	Nx2000+ Remote Keypad with 3m cable	LTOP-DOP-52	*
	CANOpen Comm Card for Nx2000+	LTCI-CAN-NP	*
	Eth.IP/Mod.TCP/RAPIEnet Opt for Nx2000+	LTCI-ETH-NP	*
	Profibus-DP Comm Card for Nx2000+	LTCI-PDP-NP	*
Sx2000	Sx2000 Remote Keypad with 3m cable	LTOP-DOP-150	*
	LCD Digital Operator	LTOP-DOP-200	*
	I/O Expansion Card for Sx2000	LTIO-EXP-S	*
	CANOpen Communication card	LTCI-CAN-S	*
	Profibus-DP Communication card	LTCI-PDP-S.	*
	Profinet option card for Sx2000	LTCI-PFN-S	*
Fx2000	Ethernet IP - Modbus TCP Communication card	LTCI-ETH-S.	*
	LCD Digital Operator	LTOP-DOP-200	*
	I/O Expansion Card 1 for Fx2000	LTIO-EX1-F	*
	I/O Expansion Card 2 for Fx2000	LTIO-EX2-F	*
	Synchronization Option Card	LTCN-SYN-F	*
	Position control option card for Fx2000	LTCN-PCN-F	*
	Incremental card for Open collector and Line Driver Encoder	LTEN-INC-F	*
	Application Development PLC Option card	LTAD-PLC-F	*
	Profibus-DP Communication Interface card	LTCI-PDP-F	*
	Profinet option card for Fx2000	LTCI-PFN-F	*
Hx2000	CANOpen Communication Interface card	LTCI-CAN-F	*
	DeviceNet Communication Interface card	LTCI-DEN-F	*
DBU for Sx2000, Fx2000	Ethernet IP/Modbus TCP Communication Interface card	LTCI-ETH-F	*
	I/O Expansion Card for Hx2000	LTIO-EXP-H	*
	I/O Expansion Card 2 for Hx2000	LTIO-EXP2-H	*
	Dynamic Braking Unit for 11 - 15kW	LTDBU-0150-4	*
	Dynamic Braking Unit for 18.5 - 22kW	LTDBU-0220-4	*
	Dynamic Braking Unit for 30 - 37kW	LTDBU-0370-4	*
	Dynamic Braking Unit for 45 - 55kW	LTDBU-0550-4	*
	Dynamic Braking Unit for 75kW	LTDBU-0750-4	*
	Dynamic Braking Unit for 75kW 100% ED	LTDBU-075H-4	*
	Dynamic Braking Unit for 220 - 375kW	LTDBU-2200-4	*

Note:

* For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90
and are charged at 18% GST.

Integrate your pumping solution with **EMX4** soft starters streamlined setup process

PRODUCT RANGE:
24A to 1250A



Features :

- Inbuilt Real Time Clock (RTC)
- Compact Design - Saves valuable space in panel
- On-board USB provides quick setup and backup
- Extensive voltage range - 200VAC to 525VAC, 380VAC to 690VAC
- IE3 Compatible and 99% energy efficient when running
- Smart cards Analog output Optional features for advanced applications
- Communication options: DeviceNet, Ethernet/IP, Modbus RTU, Modbus TCP, Profibus, Profinet



Digital Soft Starters [8504]

EMX4e 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
EMX4e, 24A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0024B-511	*	
EMX4e, 42A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0042B-511	*	
EMX4e, 52A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0052B-511	*	
EMX4e, 64A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0064B-511	*	
EMX4e, 69A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0069B-511	*	
EMX4e, 105A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0105B-511	*	
EMX4e, 115A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0115B-511	*	
EMX4e, 135A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0135B-511	*	
EMX4e, 184A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0184B-511	*	
EMX4e, 200A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0200B-511	*	
EMX4e, 229A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0229B-511	*	
EMX4e, 250A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0250B-511	*	
EMX4e, 352A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0352B-511	*	
EMX4e, 397A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0397B-511	*	
EMX4e, 410A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0410B-511	*	
EMX4e, 550A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0550B-511	*	
EMX4e, 580A, Main 200-525Vac, CTR 110-240Vac	EMX4e-0580B-511	*	

Built - In

EMX4i 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
EMX4i, 24A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0024B-511	*	
EMX4i, 42A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0042B-511	*	
EMX4i, 52A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0052B-511	*	
EMX4i, 64A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0064B-511	*	
EMX4i, 69A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0069B-511	*	
EMX4i, 105A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0105B-511	*	
EMX4i, 115A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0115B-511	*	
EMX4i, 135A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0135B-511	*	
EMX4i, 184A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0184B-511	*	
EMX4i, 200A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0200B-511	*	
EMX4i, 229A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0229B-511	*	
EMX4i, 250A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0250B-511	*	
EMX4i, 352A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0352B-511	*	
EMX4i, 397A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0397B-511	*	
EMX4i, 410A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0410B-511	*	
EMX4i, 550A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0550B-511	*	
EMX4i, 580A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0580B-511	*	
EMX4i, 835A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0835B-511	*	
EMX4i, 940A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0940B-511	*	
EMX4i, 1070A, Main 200-525Vac, CTR 110-240Vac	EMX4i-1070B-511	*	
EMX4i, 1230A, Main 200-525Vac, CTR 110-240Vac	EMX4i-1230B-511	*	
EMX4i, 1250A, Main 200-525Vac, CTR 110-240Vac	EMX4i-1250B-511	*	
EMX4i, 735A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0735C-511	*	
EMX4i, 830A, Main 200-525Vac, CTR 110-240Vac	EMX4i-0830C-511	*	
EMX4i, 1025A, Main 200-525Vac, CTR 110-240Vac	EMX4i-1025C-511	*	
EMX4i, 1170A, Main 200-525Vac, CTR 110-240Vac	EMX4i-1170C-511	*	
EMX4i, 1220A, Main 200-525Vac, CTR 110-240Vac	EMX4i-1220C-511	*	

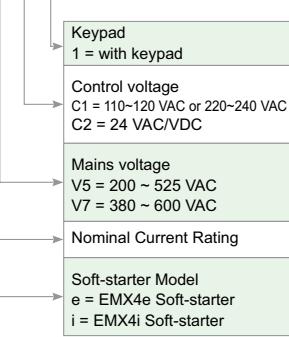
Built - In

External bypass
contactor
(AC1 rating)

\$ All protections
remain active during
bypass operation

Ordering Information for EMX4 Soft Starter

E M X 4 - B -



Note:

* For prices please contact nearest branch office

Soft Starters are covered under HS 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 I²T.



Digital Soft Starters [8504]

CSX Soft Starters



CSXi Soft Starters



Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	CSX-007-41	*
15	CSX-015-41	*
18	CSX-018-41	*
22	CSX-022-41	*
30	CSX-030-41	*
37	CSX-037-41	*
45	CSX-045-41	*
55	CSX-055-41	*
75	CSX-075-41	*
90	CSX-090-41	*
110	CSX-110-41	*

Note:

* For prices please contact nearest branch office

The above CSX & CSXi ratings are based on 400% starting current, 10 starts per hour up to 30kW & 6 starts per hour for 37kW & above, 6 seconds starting time and ambient temperature of 45°C.

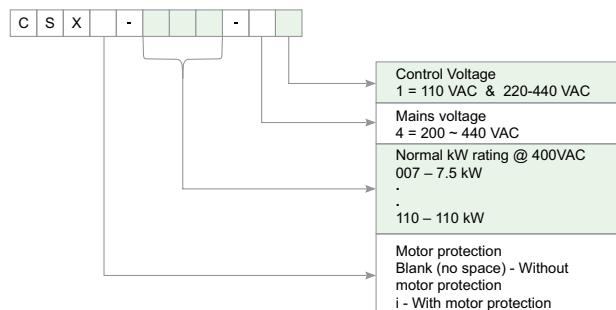
For proper sizing of soft starter based on the application parameters please use Winstart Software.

Optional Modules/Cards for CSX / CSXi / EMX4



Description	Cat. No.	M.R.P. (₹) Per Unit
Modbus Interface	PIM-MB-01	*
Profibus Interface	PIM-PB-01	*
DeviceNet Interface	PIM-DN-01	*
USB Interface	PIM-USB-01	*
Modbus TCP Module	PIM-MT-01	*
Ethernet IP Module	PIM-EI-01	*
Profinet Module	PIM-PN-01	*
DeviceNet Card, EMX4	PIC-DN-01	*
Ethernet IP Card, EMX4	PIC-EI-01	*
Modbus RTU Card, EMX4	PIC-MB-01	*
Modbus TCP Card, EMX4	PIC-MT-01	*
Profibus Card, EMX4	PIC-PB-01	*
Profinet Card, EMX4	PIC-PN-01	*
Remote Keypad Card, EMX4	PIC-RC-01	*
Remote Keypad Card & Keypad EMX4	PIC-RC-02	*
Remote Keypad with cable & mounting kit, EMX4	PIC-RK-01	*
Smart Control Card Pump Application, EMX4	SCC-PC-01	*
Ground Fault + Ethernet IP Card EMX4	PIC-EI-02	*
Ground Fault + Modbus RTU Card EMX4	PIC-MB-02	*
Ground Fault + Modbus TCP Card EMX4	PIC-MT-02	*
Ground Fault + Profinet Card EMX4	PIC-PN-02	*

Ordering Information for CSX Series Soft Starter



CSX Soft Starters : For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop
- Compact
- Complements existing motor protection
- Truly plug & play
- Communication options available

CSXi 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

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 I²T.

Note:

EMX3 soft starters will be available till stock lasts

* For prices please contact nearest branch office

Soft Starters are covered under HS code 8504 40 90 and are charged at 18% GST.



Human Machine Interface
iXP2 Series
Intelligent XT Panel



iXP2 provides optimal performance for all industrial sites.

- Dual-Core CPU offers high-speed communication and processing

Better performance than ever with enhanced serial communication, CPU processing, memory access and vector/raster graphic processing



- Multiple interface methods to cope with the Internet of Things

Ethernet 2ch., HDMI / Audio output, USB host / device, multimedia (video)



- Robust IP66 Aluminium frame

Reinforced protection against water and dust. Conforms to NEMA 4X standard.



- Screen gesture

Flick to change screens.

No extra switching button is needed to change screens.



- Object gesture

Select the object you want and then swipe and flick it.

Object list

- Logging trend graph • View logging history • View history alarms



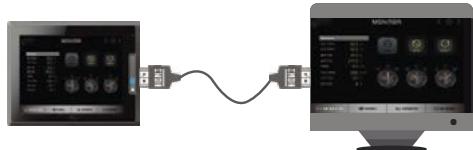
- Multi-touch

Use multi-touch to protect your system from undesired errors.



- Dual monitor mode and extension mode

Increase your convenience by duplicating or extending your screens.



s-XT Reloaded



► Portrait Mode



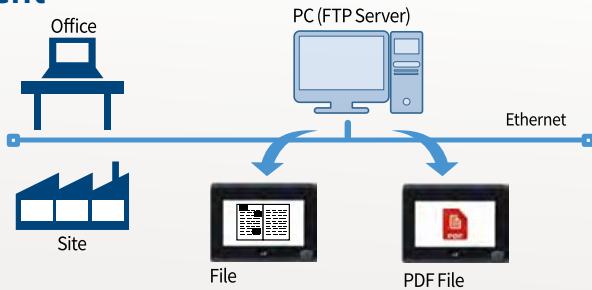
- Vertical mounting is available
- Setting in XP-Builder: [COMMON] - [Project Property Setting]

► PDF Viewer



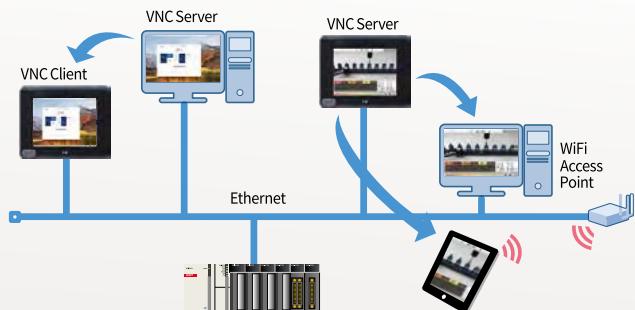
- PDF files can be displayed on XGT Panel.
- In the event of an alarm, the content of the alarm's trouble shooting can be checked on site as a PDF file.
- PDF files on an FTP sever can be displayed using a PDF viewer object.

► FTP Client



- FTP client is an object that can connect to the FTP sever, display the list of files and directories on the FTP server, and download the selected file.
- PDF files on an FTP server can be displayed using a PDF viewer object.

► VNC Viewer



- Remotely monitoring PC or HMI using VNC Viewer is available
 - Download VNC server to HMI using XP-Manager.
 - Install a universal VNC server on your PC. (Ultra VNC, Real VNC, etc.)
- Add 'VNC Viewer' object to the project screen.



PLC

Features:

- Processing speed: $0.06\mu\text{s}/\text{step}$
- Expandable upto 10 modules
- Built-in Function: RTC, HSC, PTO, PID, Interrupt, Analog I/O
- Various communication Interface: Built-in USB / RS-232C / RS-485 / Ethernet, optional other communication modules
- Built-in Web-server, E-mail
- EtherCAT based motion control modules with Virtual Axis
- Built-in SD Card intreface
- Smart Remote IO



Range:

- Up to 352 local I/O points
- Up to 5728 remote I/O points

HMI



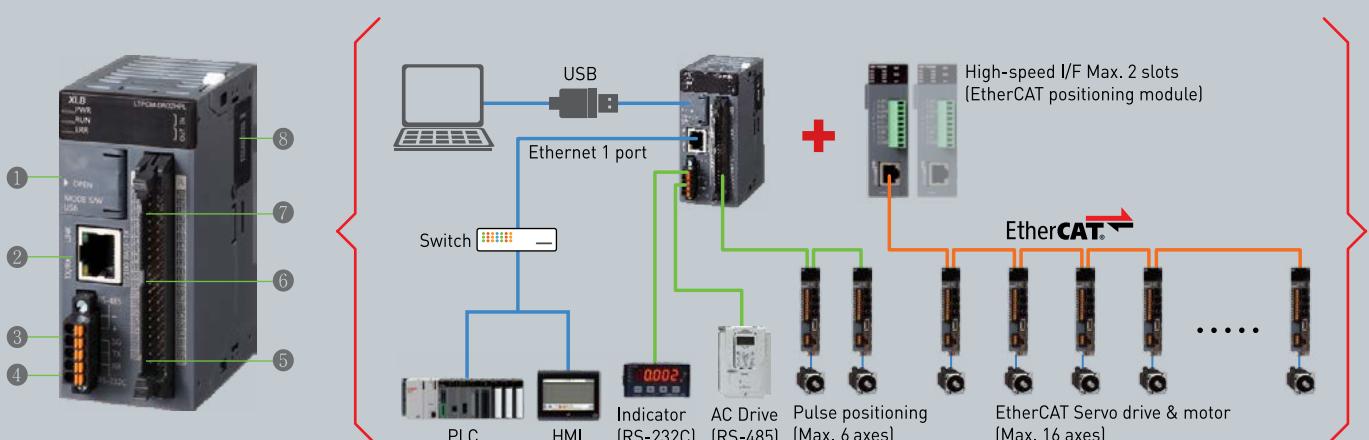
Range:

- Text Display
- 4" ~ 15" TFT color LCD

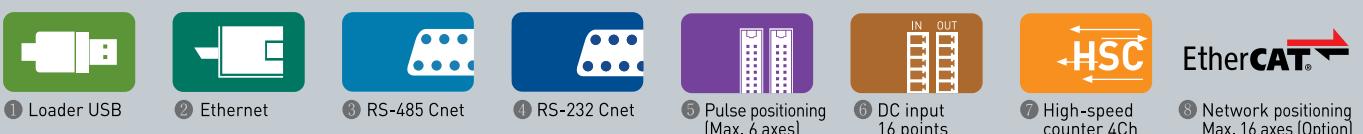
Features:

- Large Memory: Upto 128MB display data and 1MB back-up memory
- Various Communication Interface: Ethernet / RS-232C / RS-422/485
- USB host and device
- SD memory card interface
- Web server / Data monitoring
- Remote controlling and monitoring
- Presence sensor (within 1m)
- Sound Output

XLB - HPL Series PLC



Built in Function



XLB Series PLC - CPU [8537]



- Processing speed: 0.06 μ s/step
- Expandable upto 10 modules
- Built-in Function: RTC, HSC, PTO, PID, Interrupt, Analog I/O
- Various communication Interface: Built-in USB / RS-232C / RS-485 / Ethernet, optional other communication modules
- Built-in Web-server, E-mail
- EtherCAT based motion control modules with Virtual Axis
- Built-in SD Card intreface
- Smart Remote IO

Category	Description	Cat. No.	M.R.P. (₹) Per Unit
CPU	AC 110~220V, 6P DC Input, 4P TR (NPN) output	LTPCM-DN10E1	*
	AC 110~220V, 6P DC Input, 4P Relay output	LTPCM-DR10E1	*
	AC 110~220V, 8P DC Input, 6P TR(NPN) output	LTPCM-DN14E1	*
	AC 110~220V, 8P DC Input, 6P Relay output	LTPCM-DR14E1	*
	AC 110~220V, 12P DC Input, 8P TR(NPN) output	LTPCM-DN20E1	*
	AC 110~220V, 12P DC Input, 8P Relay output	LTPCM-DR20E1	*
	AC 110~220V, 18P DC Input, 12P TR(NPN) output	LTPCM-DN30E1	*
	AC 110~220V, 18P DC Input, 12P Relay output	LTPCM-DR30E1	*
S - Series	AC 110~220V, 12P DC Input, 8P TR(NPN) output	LTPCM-DN20S1	*
	AC 110~220V, 12P DC Input, 8P Relay output	LTPCM-DR20S1	*
	AC 110~220V, 18P DC Input, 12P TR(NPN) output	LTPCM-DN30S1	*
	AC 110~220V, 18P DC Input, 12P Relay output	LTPCM-DR30S1	*
	AC 110~220V, 24P DC Input, 16P TR(NPN) output	LTPCM-DN40S1	*
	AC 110~220V, 24P DC Input, 16P Relay output	LTPCM-DR40S1	*
	AC 110~220V, 36P DC Input, 24P TR(NPN) output	LTPCM-DN60S1	*
	AC 110~220V, 36P DC Input, 24P Relay Output	LTPCM-DR60S1	*
U - Series	AC 110~220V, 16P DC Input, 16P TR(NPN) output	LTPCM-DN32UB	*
	AC 110~220V, 16P DC Input, 16P TR(NPN) output	LTPCM-DN32UA	*
	AC 110~220V, 16P DC Input, 16P TR(NPN) output	LTPCM-DN32UP	*
	DC 24V, 16P DC Input, 16P TR(NPN) output	LTPCM-DN32UB/DC	*
	DC 24V, 16P DC Input, 16P TR(NPN) output	LTPCM-DN32UA/DC	*
	DC 24V, 16P DC Input, 16P TR(NPN) output	LTPCM-DN32UP/DC	*
HPL - Series	DC 24V, 16P DC Input, 16 Point TR (NPN) output	LTPCM-DN32HPL	*

XT Series HMI [8537]

- Large Memory: Upto 128MB display data and 1MB back-up memory
- Various Communication Interface: Ethernet / RS-232C / RS-422/485
- USB host and device
- SD memory card interface
- Web server / Data monitoring
- Remote controlling and monitoring
- Presence sensor (within 1m)
- Sound Output

Category	Description	Cat. No.	M.R.P. (₹) Per Unit
b-XT Series	4.1" Mono green LCD,DC24V	LTOP-B04DSAA	*
	4.1" Mono green LCD,DC24V,RTC	LTOP-B04DSAR	*
s-XT Series	4" TFT, Ethernet, DC24V	LTOP-S04EDAA	*
	4" TFT, Ethernet, DC24V	LTOP-S04EDAB*	*
	7" TFT, Ethernet, DC24V	LTOP-S07EDAB*	*
	7" TFT, Ethernet, DC24V, SD Card slot	LTOP-S07EDAC**	*
	10.2" TFT, Ethernet, DC24V	LTOP-S10EDAB*	*
	10.2" TFT, Ethernet, DC24V, SD card Slot	LTOP-S10EDAC**	*
i-XT Series	8.4" TFT, Ethernet, DC24V	LTOP-I08EDAA	*
	10.4" TFT, Ethernet,DC12/24V	LTOP-I10EDAA	*
	12.1" TFT, Ethernet, DC12/24V	LTOP-I12EDAA	*
	15" TFT, Ethernet, DC12/24V	LTOP-I15EDAA	*
iXP2 Series	i-XP2 10.4" TFT,DC24V,WinCE	LTOP-A10EDAA	*
	i-XP2 12.1" TFT,DC24V,WinCE	LTOP-A12EDAA	*
	i-XP2 15" TFT,DC24V,WinCE	LTOP-A15EDAA	*

Note:

* Upgraded version of our s-XT series HMI

** Upgraded version with SD card slot for our existing s-XT series HMI



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

Customer Interaction Center (CIC)

BSNL / MTNL (toll-free): 1800 233 5858 Reliance (toll-free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com



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 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 side
- 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
Single Pole (SP)							
0.5A	1	-	-	BB10E50C	455	BB10E50D	460
1A	1	-	-	BB10010C	455	BB10010D	460
2A	1	-	-	BB10020C	455	BB10020D	460
3A	1	-	-	BB10030C	455	BB10030D	460
4A	1	-	-	BB10040C	455	BB10040D	460
6A	1	BB10060B	280	BB10060C	280	BB10060D	385
10A	1	BB10100B	280	BB10100C	280	BB10100D	385
16A	1	BB10160B	280	BB10160C	280	BB10160D	385
20A	1	BB10200B	280	BB10200C	280	BB10200D	385
25A	1	BB10250B	280	BB10250C	280	BB10250D	385
32A	1	BB10320B	280	BB10320C	280	BB10320D	385
40A	1	BB10400B	645	BB10400C	645	BB10400D	695
50A	1	BB10500B	645	BB10500C	645	BB10500D*	695
63A	1	BB10630B	645	BB10630C	645	BB10630D*	695



Double Pole (DP)

0.5A	2	-	-	BB20E50C	1270	BB20E50D	1290
1A	2	-	-	BB20010C	1270	BB20010D	1290
2A	2	-	-	BB20020C	1270	BB20020D	1290
3A	2	-	-	BB20030C	1270	BB20030D	1290
4A	2	-	-	BB20040C	1270	BB20040D	1290
6A	2	BB20060B	910	BB20060C	910	BB20060D	940
10A	2	BB20100B	910	BB20100C	910	BB20100D	940
16A	2	BB20160B	910	BB20160C	910	BB20160D	940
20A	2	BB20200B	910	BB20200C	910	BB20200D	940
25A	2	BB20250B	910	BB20250C	910	BB20250D	940
32A	2	BB20320B	910	BB20320C	910	BB20320D	940
40A	2	BB20400B	1470	BB20400C	1470	BB20400D	1535
50A	2	BB20500B	1470	BB20500C	1470	BB20500D*	1535
63A	2	BB20630B	1470	BB20630C	1470	BB20630D*	1535



Three Pole (TP)

0.5A	3	-	-	BB30E50C	1865	BB30E50D	1895
1A	3	-	-	BB30010C	1865	BB30010D	1895
2A	3	-	-	BB30020C	1865	BB30020D	1895
3A	3	-	-	BB30030C	1865	BB30030D	1895
4A	3	-	-	BB30040C	1865	BB30040D	1895
6A	3	BB30060B	1450	BB30060C	1450	BB30060D	1510
10A	3	BB30100B	1450	BB30100C	1450	BB30100D	1510
16A	3	BB30160B	1450	BB30160C	1450	BB30160D	1510
20A	3	BB30200B	1450	BB30200C	1450	BB30200D	1510
25A	3	BB30250B	1450	BB30250C	1450	BB30250D	1510
32A	3	BB30320B	1450	BB30320C	1450	BB30320D	1510
40A	3	BB30400B	2235	BB30400C	2235	BB30400D	2340
50A	3	BB30500B	2235	BB30500C	2235	BB30500D*	2340
63A	3	BB30630B	2235	BB30630C	2235	BB30630D*	2340



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
Four Pole (FP)							
0.5A	4	-	-	BB40E50C	2345	BB40E50D	2350
1A	4	-	-	BB40010C	2345	BB40010D	2350
2A	4	-	-	BB40020C	2345	BB40020D	2350
3A	4	-	-	BB40030C	2345	BB40030D	2350
4A	4	-	-	BB40040C	2345	BB40040D	2350
6A	4	BB40060B	1980	BB40060C	1980	BB40060D	2030
10A	4	BB40100B	1980	BB40100C	1980	BB40100D	2030
16A	4	BB40160B	1980	BB40160C	1980	BB40160D	2030
20A	4	BB40200B	1980	BB40200C	1980	BB40200D	2030
25A	4	BB40250B	1980	BB40250C	1980	BB40250D	2030
32A	4	BB40320B	1980	BB40320C	1980	BB40320D	2030
40A	4	BB40400B	2805	BB40400C	2805	BB40400D	3010
50A	4	BB40500B	2805	BB40500C	2805	BB40500D*	3010
63A	4	BB40630B	2805	BB40630C	2805	BB40630D*	3010

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos., TP- 4 Nos., FP - 3 Nos.

MCBs (Miniature Circuit Breakers) : 80A-125A [8536]

Range Highlights

- Short circuit Breaking Capacity - 15kA (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	Module	C Curve Cat. No.	M.R.P. (₹) Per Unit	D Curve Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)					
80A	1.5	AU15S10803C	2550	AU15S10803D	2900
100A	1.5	AU15S11003C	2855	AU15S11003D	3245
125A	1.5	AU15S11253C	3070	AU15S11253D	3510
Double Pole (DP)					
80A	3	AU15S20803C	5650	AU15S20803D	6430
100A	3	AU15S21003C	6025	AU15S21003D	6855
125A	3	AU15S21253C	6630	AU15S21253D	7540
Three Pole (TP)					
80A	4.5	AU15S30803C	8915	AU15S30803D	10150
100A	4.5	AU15S31003C	9505	AU15S31003D	10805
125A	4.5	AU15S31253C	10545	AU15S31253D	11985
Four Pole (FP)					
80A	6	AU15S40803C	11640	AU15S40803D	13215
100A	6	AU15S41003C	12105	AU15S41003D	13775
125A	6	AU15S41253C	13710	AU15S41253D	15585

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Solar Combo MCBs

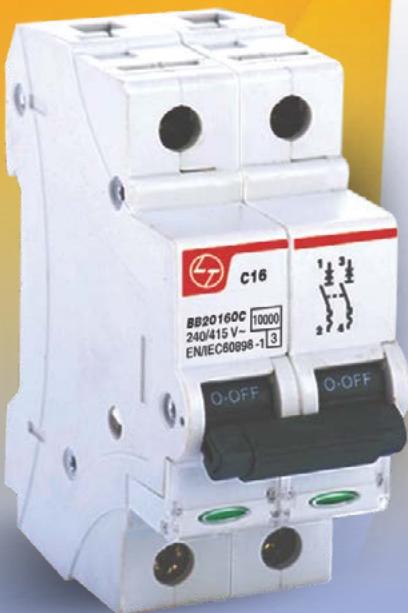
Complete Protection for Solar Rooftop Installations

Combo Pack

Tested for Reliable Performance



DC MCB



AC MCB

- [1 DP DC (500V) MCB] + [1 DP AC MCB] in a combo pack
- Provides complete protection for DC and AC sides of solar rooftop installations
- DC MCB : 10kA as per IEC 60947-2
- AC MCB : 10kA as per IS/IEC 60898-1



Customer Interaction Center (CIC)

BSNL / MTNL (toll-free): 1800 233 5858 Reliance (toll-free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com



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	660
1A	1	BB1001DC	660
2A	1	BB1002DC	660
3A	1	BB1003DC	660
4A	1	BB1004DC	660
6A	1	BB1006DC	570
10A	1	BB1010DC	570
16A	1	BB1016DC	570
20A	1	BB1020DC	570
25A	1	BB1025DC	570
32A	1	BB1032DC	570
40A	1	BB1040DC	750
50A	1	BB1050DC	750
63A	1	BB1063DC	750



250V DC DP MCB

0.5A	2	BB20E5DC	1410
1A	2	BB2001DC	1410
2A	2	BB2002DC	1410
3A	2	BB2003DC	1410
4A	2	BB2004DC	1410
6A	2	BB2006DC	1240
10A	2	BB2010DC	1240
16A	2	BB2016DC	1240
20A	2	BB2020DC	1240
25A	2	BB2025DC	1240
32A	2	BB2032DC	1240
40A	2	BB2040DC	1680
50A	2	BB2050DC	1680
63A	2	BB2063DC	1680



1000V DC MCBs [8536]

Rated Voltage: 1000V DC
with breaking capacity of 6 kA - BK Series DC MCBs

Description	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
DP 6A 1000V DC 6kA MCB	4	BK2006DC	2245
DP 10A 1000V DC 6kA MCB	4	BK2010DC	2245
DP 16A 1000V DC 6kA MCB	4	BK2016DC	2245
DP 20A 1000V DC 6kA MCB	4	BK2020DC	2245
DP 25A 1000V DC 6kA MCB	4	BK2025DC	2245
DP 32A 1000V DC 6kA MCB	4	BK2032DC	2245
DP 40A 1000V DC 6kA MCB	4	BK2040DC	2725
DP 50A 1000V DC 6kA MCB	4	BK2050DC	2725
DP 63A 1000V DC 6kA MCB	4	BK2063DC	2725

Solar Combo MCBs [8536] (AC MCB + DC MCB)

Description	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
1 AC 16A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	SC221616	1805
1 AC 25A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	SC222516	1805
1 AC 32A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	SC223216	1805
1 AC 32A DP MCB^ + 1 DC 32A DP 500V MCB	2+2	SC223232	1805

[^]AC MCB with C-Curve

Rated Voltage:
Breaking capacity of 10 kA - BJ Series DC MCBs

250V DC SP MCB

Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)			
0.5A	1	BJ10E5DC	810
1A	1	BJ1001DC	810
2A	1	BJ1002DC	810
3A	1	BJ1003DC	810
4A	1	BJ1004DC	810
6A	1	BJ1006DC	660
10A	1	BJ1010DC	660
16A	1	BJ1016DC	660
20A	1	BJ1020DC	660
25A	1	BJ1025DC	660
32A	1	BJ1032DC	660
40A	1	BJ1040DC	915
50A	1	BJ1050DC	915
63A	1	BJ1063DC	915

500V DC DP MCB

0.5A	2	BJ20E5DC	1690
1A	2	BJ2001DC	1690
2A	2	BJ2002DC	1690
3A	2	BJ2003DC	1690
4A	2	BJ2004DC	1690
6A	2	BJ2006DC	1430
10A	2	BJ2010DC	1430
16A	2	BJ2016DC	1430
20A	2	BJ2020DC	1430
25A	2	BJ2025DC	1430
32A	2	BJ2032DC	1430
40A	2	BJ2040DC	1820
50A	2	BJ2050DC	1820
63A	2	BJ2063DC	1820

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos.

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	Cat. No.	M.R.P. (₹) Per Unit	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Double Pole (DP)				1 Mod = 17.5 mm	Three Pole (TP)			Four Pole (FP)	
40A	2	BF204000	555	3	BF304000	965	4	BF404000	1250
63A	2	BF206300	715	3	BF306300	1125	4	BF406300	1305
80A	2	BF208000	910	3	BF308000	1235	4	BF408000	1465
100A	2	BF210000	950	3	BF310000	1315	4	BF410000	1580

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 300 mA sensitivity



- 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
Double Pole (DP)				
25A	30 mA	2	BG202503	3205
	100 mA	2	BG202510	3330
	300 mA	2	BG202530	3330
40A	30 mA	2	BG204003	3595
	100 mA	2	BG204010	3805
	300 mA	2	BG204030	3805
63A	30 mA	2	BG206303	4485
	100 mA	2	BG206310	4595
	300 mA	2	BG206330	4595
100A	30 mA	2	BG210003	7825
	100 mA	2	BG210010	7925
	300 mA	2	BG210030	7925

Rating	Sensitivity	Modules 1 Mod=17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Four Pole (FP)				
25A	30 mA	4	BG402503	4235
	100 mA	4	BG402510	4345
	300 mA	4	BG402530	4345
40A	30 mA	4	BG404003	4275
	100 mA	4	BG404010	4420
	300 mA	4	BG404030	4420
63A	30 mA	4	BG406303	4835
	100 mA	4	BG406310	5070
	300 mA	4	BG406330	5070
100A	30 mA	4	BG410003	8345
	100 mA	4	BG410010	8490
	300 mA	4	BG410030	8490

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	Module	CAT Nos.	M.R.P. (₹) Per Unit
2P Adi				
25A	30mA	2	AURAD202503	5130
	100mA	2	AURAD202510	5360
	300mA	2	AURAD202530	5360
40A	30mA	2	AURAD204003	5445
	100mA	2	AURAD204010	5530
	300mA	2	AURAD204030	5530
63A	30mA	2	AURAD206303	6365
	100mA	2	AURAD206310	6485
	300mA	2	AURAD206330	6485
100A	30mA	2	AURAD210003	9405

Rating	Sensitivity	Module	CAT Nos.	M.R.P. (₹) Per Unit
4P Adi				
25A	30mA	4	AURAD402503	6200
	100mA	4	AURAD402510	6320
	300mA	4	AURAD402530	6320
40A	30mA	4	AURAD404003	6440
	100mA	4	AURAD404010	6540
	300mA	4	AURAD404030	6540
63A	30mA	4	AURAD406303	7010
	100mA	4	AURAD406310	7155
	300mA	4	AURAD406330	7155
100A	30mA	4	AURAD410003	11165
	300mA	4	AURAD410030	11165



Adi an 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



Added Immunity

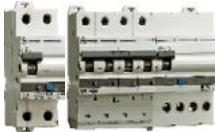


RCBOs (Residual Current Breaker with Overcurrent Protection) [8536]



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	Module	CAT Nos.	M.R.P. (₹) Per Unit
2P AC				
6A	10mA	2	AUF3C200601	4745
	30mA	2	AUF3C200603	4745
	100mA	2	AUF3C200610	4845
	300mA	2	AUF3C200630	4900
10A	10mA	2	AUF3C201001	4745
	30mA	2	AUF3C201003	4745
	100mA	2	AUF3C201010	4845
	300mA	2	AUF3C201030	4900
16A	10mA	2	AUF3C201601	4745
	30mA	2	AUF3C201603	4745
	100mA	2	AUF3C201610	4845
	300mA	2	AUF3C201630	4900
20A	30mA	2	AUF3C202003	4745
	100mA	2	AUF3C202010	4845
	300mA	2	AUF3C202030	4900
25A	30mA	2	AUF3C202503	4745
	100mA	2	AUF3C202510	4845
	300mA	2	AUF3C202530	4900
32A	30mA	2	AUF3C203203	4745
	100mA	2	AUF3C203210	4845
	300mA	2	AUF3C203230	4900
40A	30mA	2	AUF3C204003	4745
	100mA	2	AUF3C204010	4845
	300mA	2	AUF3C204030	4900
63A	30mA	4	AUF3C206303	5940
	100mA	4	AUF3C206310	6300
	300mA	4	AUF3C206330	6350
4P AC				
16A	30mA	7.5	AUF3C401603	5370
	100mA	7.5	AUF3C401610	5980
	300mA	7.5	AUF3C401630	6100
20A	30mA	7.5	AUF3C402003	5370
	100mA	7.5	AUF3C402010	5980
	300mA	7.5	AUF3C402030	6100
25A	30mA	7.5	AUF3C402503	5370
	100mA	7.5	AUF3C402510	5980
	300mA	7.5	AUF3C402530	6100
32A	30mA	7.5	AUF3C403203	5545
	100mA	7.5	AUF3C403210	5985
	300mA	7.5	AUF3C403230	6115
40A	30mA	7.5	AUF3C404003	5635
	100mA	7.5	AUF3C404010	5985
	300mA	7.5	AUF3C404030	6135
63A	30mA	7.5	AUF3C406303	6750
	100mA	7.5	AUF3C406310	6875
	300mA	7.5	AUF3C406330	6875
80A	30mA	12	AUF3C408003	25685
	100mA	12	AUF3C408010	26260
	300mA	12	AUF3C408030	26260
100A	30mA	12	AUF3C410003	27460
	100mA	12	AUF3C410010	28115
	300mA	12	AUF3C410030	28115

Type-Adi

Rating	Sensitivity	Module	CAT Nos.	M.R.P. (₹) Per Unit
2P Adi				
6A	30mA	2	AUF3D200603	6285
	100mA	2	AUF3D200610	6920
	300mA	2	AUF3D200630	7180
	30mA	2	AUF3D201003	6285
10A	100mA	2	AUF3D201010	6920
	300mA	2	AUF3D201030	7180
	30mA	2	AUF3D201603	6285
	100mA	2	AUF3D201610	6920
16A	300mA	2	AUF3D201630	7180
	30mA	2	AUF3D202003	6285
	100mA	2	AUF3D202010	6920
	300mA	2	AUF3D202030	7180
20A	30mA	2	AUF3D202503	6285
	100mA	2	AUF3D202510	6920
	300mA	2	AUF3D202530	7180
	30mA	2	AUF3D203203	6285
32A	100mA	2	AUF3D203210	6920
	300mA	2	AUF3D203230	7180
	30mA	2	AUF3D204003	6285
	100mA	2	AUF3D204010	6920
40A	300mA	2	AUF3D204030	7180
	30mA	4	AUF3D206303	7665
	100mA	4	AUF3D206310	8110
	300mA	4	AUF3D206330	8180
4P Adi				
16A	30mA	7.5	AUF3D401603	6925
	100mA	7.5	AUF3D401610	7705
	300mA	7.5	AUF3D401630	7860
	30mA	7.5	AUF3D402003	6925
20A	100mA	7.5	AUF3D402010	7705
	300mA	7.5	AUF3D402030	7860
	30mA	7.5	AUF3D402503	6925
	100mA	7.5	AUF3D402510	7705
25A	300mA	7.5	AUF3D402530	7860
	30mA	7.5	AUF3D403203	7150
	100mA	7.5	AUF3D403210	7710
	300mA	7.5	AUF3D403230	7870
32A	30mA	7.5	AUF3D404003	7255
	100mA	7.5	AUF3D404010	7710
	300mA	7.5	AUF3D404030	7905
	30mA	7.5	AUF3D406303	8695
63A	100mA	7.5	AUF3D406310	8870
	300mA	7.5	AUF3D406330	8870
	30mA	12	AUF3D408003	25685
	100mA	12	AUF3D408010	26260
80A	300mA	12	AUF3D408030	26260
	30mA	12	AUF3D410003	27460
	100mA	12	AUF3D410010	28115
	300mA	12	AUF3D410030	28115

* For technical details, please contact nearest branch office



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 - I_{max} up to 70kA
- Type 1+2 : Protection against direct and indirect lightning surges

800V Solar Application

Description	Configuration	Module	Voltage (Uc)	Cat. No.	M.R.P. (₹) Per Unit
Type 2, I_{imp} 12.5kA	3P	4	1500	AUSP023P40-1500	12500
Type 1+2, I_{imp} 12.5kA	3P	5	1360	AUSP123P50-1360	41430
Type 1+2, I_{imp} 12.5kA	3P	4	880	AUSP123P50-880	30000

440V Application

Description	I_{max}	Configuration	Module	Cat. No.	M.R.P. (₹) Per Unit
Type 1+2, I_{imp} 12.5kA	50kA	1P+N	2	AUSP121PN50	10045
		3P+N	4	AUSP123PN50	19235
Type 2	40kA	1P+N	1	AUSP021PN40	6275
		3P+N	2	AUSP023PN40	12545
Type 2	15kA	1P+N	1	AUSP021PN15	5020
		3P+N	2	AUSP023PN15	9875
Type 1+2, I_{imp} 8kA	100kA	1P+N	2	AUSP121PN100	9030
		3P+N	4	AUSP123PN100	17740
Type 2	70kA	1P+N	2	AUSP021PN70	9855
		3P+N	4	AUSP023PN70	16420

Extend SPD life with Spare Cartridges



Description	Cat. No.	M.R.P. (₹) Per Unit
Cartridge for AUSP021PN15	AUSC021PN15	2515
Cartridge for AUSP021PN40	AUSC021PN40	3135
Cartridge for AUSP021PN70 / AUSP023PN70	AUSC021PN70	3350
Cartridge for AUSP023PN15	AUSC023PN15	3290
Cartridge for AUSP023PN40	AUSC023PN40	4185
Cartridge for AUSP121PN100 / AUSP123PN100	AUSC121PN100	5020
Cartridge for AUSP121PN50 / AUSP123PN50	AUSC121PN50	5420

Changeover Switches (Automatic Changeover with Current Limiter, CO) [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	Module	CAT Nos.	M.R.P. (₹) Per Unit
30A/1A	4	AUCL01030001	2410
30A/1.5A	4	AUCL010301E5	2410
30A/2A	4	AUCL01030002	2410
30A/2.5A	4	AUCL010302E5	2410
30A/3A	4	AUCL01030003	2410
30A/4A	4	AUCL01030004	2410
30A/5A	4	AUCL01030005	2410
30A/6A	4	AUCL01030006	2410
30A/8A	4	AUCL01030008	2410
30A/10A	4	AUCL01030010	2410
30A/12A	4	AUCL01030012	2410
30A/15A	4	AUCL01030015	2410
30A/20A	4	AUCL01030020	2410
30A/30A	4	AUCL01030030*	2410

* Non-current limiting variant

Changeover Switches

Rating	Module	Cat. No.	M.R.P. (₹) Per Unit
Double Pole			
25A	2	AUC00202500	1630
40A	2	AUC00204000	2490
63A	3	AUC00206300	2900



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	10165
40A / 32A	AUCL03040032	10475
40A / 40A	AUCL03040040	11340
50A / 50A	AUCL03050050	16155
63A / 50A	AUCL03063050	17830
63A / 63A	AUCL03063063	20195
80A / 80A	AUCL03080080	30780
125A / 125A	AUCL03125125	51815

For 3 Phase ACCL programming video
please scan the QR code or click here



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	Module	Cat. No.	M.R.P. (₹) Per Unit
Four Pole			
40A	4	AUC00404000	4290
63A	6	AUC00406300	4865

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)	Module	Cat. No.	M.R.P. (₹) Per Unit
25A-1NO	1	AUMC1002501	1810
25A-2NO	1	AUMC2002501	2265
40A-2NO	3	AUMC2004003	3880
40A-3NO	3	AUMC3004003	5560
40A-4NO	3	AUMC4004003	6525
63A-2NO+2NC	3	AUMC2206303	6895
63A-3NO	3	AUMC3006303	7065
63A-4NO	3	AUMC4006303	7780
Accessory [8538]			
Auxiliary Contact, 2NO	0.5	AUMCAUX240	1740

Time Switches [9107]



Description	Module	Cat. No.	M.R.P. (₹) Per Unit
Analog time switch	1	AUTS01ANA00*	4645
Analog time switch	3	AUTS03ANA00*	5650
Digital time switch	2	AUTS02DIG00*	3595
Astro time switch	2	AUTS02AST00*	6040
Digital time switch	2	67DDT0*	2355
Astro time switch	2	T2DDT7*	4410

*Available till stocks last

Accessories

Accessories [8538]

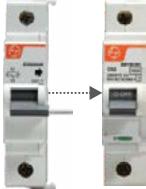


All Half Module and One Module Accessories are common for 80A-125A MCBs, RCBOs and Adi RCCBs

Description	Configuration	Module	Voltage	CAT Nos.	M.R.P. (₹) Per Unit
Auxiliary Contact	1NO+1NC	0.5	240V AC, 24V DC	AUAXAC240	940
AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	AUATAC240	1105
HR AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	AUATAC240HR	1105
Undervoltage Release	-	1	240V AC	AUUVAC240	2225
	-	1	24V DC	AUUVDC024	2225
Overvoltage Release	-	1	240V AC	AUOVAC240	2750
Shunt Release	-	1	240V AC	AUSRAC240	2550
	-	1	24V DC	AUSRDC024	2550
Padlock-Suitable for Lock Hasp 3.5 - 5 mm dia. max	Suitable for 1Pole=1Mod devices: RCCBs, RCBOs, Changeover Switches up to 40A			AUPD01	505
	Suitable for 1Pole-1.5Mod devices: MCBs 80A-125A, Changeover Switch 63A			AUPD02	570

Note: Standard Pack Quantity for Padlock - 2 Nos.

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	885
Shunt Release - 240V AC, 1 Mod	BZS00240	2425
Trip Alarm Contact - 6A, 240V AC, (1NO+1NC), 0.5 Mod	BZT11006	1040

Energy Meters [9030]



Range Highlights

- Communication with additional RS485 & WiFi module
- Class 1 accuracy
- Direct current operated meter
- Reverse current indication for three-phase meter

Description	Module	Cat. No.	M.R.P. (₹) Per Unit
Single Phase - 60A	2	WD401010000	2630
Three Phase - 80A	5	WD402010000	5975
Single Phase - 60A (RS485)	2	WD401011000	4200
Three Phase - 80A (RS485)	5	WD402011000	8605

Indicating Lights [8531]



Description	Module	Cat. No.	M.R.P. (₹) Per Unit
RED	1	AUIL01RED00	1035
YELLOW	1	AUIL01YEL00	1035
BLUE	1	AUIL01BLU00	1035
GREEN	1	AUIL01GRE00	1035
RED-YELLOW-BLUE	1	AUIL01RYB00	1255




Specially Designed

Distribution Board suitable for Aluminum shuttering (Mivan) Construction



> To experience Scan or click



DBs suitable for Aluminum Shuttering Construction [8537]

SPN DBs

Highlights

- 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			
IP 43 - Metal Door			
4 way	2	2	LTSO4M
6 way	2	4	LTSO6M
8 way	2	6	LTSO8M
12 way	2	10	LTSO12M
16 way	2	14	LTSO16M

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			
IP 43 - Metal Door			
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

Highlights

- Conforms to IS 8623-1 & 3, 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



IP 30 - Single Door



IP 43 - Metal Door



IP 43 - Glazed Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 30 - Single Door				
4 way	2	2	DBSPN004SDS	1510
6 way	2	4	DBSPN006SDS	1585
8 way	2	6	DBSPN008SDS	1830
12 way	2	10	DBSPN012SDS	2165
16 way	2	14	DBSPN016SDS	2685
18 way	2	16	DBSPN018SDS	3115
IP 43 - Metal Door				
4 way	2	2	DBSPN004DDS	1960
6 way	2	4	DBSPN006DDS	2260
8 way	2	6	DBSPN008DDS	2410
12 way	2	10	DBSPN012DDS	2890
16 way	2	14	DBSPN016DDS	3655
18 way	2	16	DBSPN018DDS	3860
IP 43 - Glazed Door				
4 way	2	2	DBSPN004GDS	2625
6 way	2	4	DBSPN006GDS	2795
8 way	2	6	DBSPN008GDS	3040
12 way	2	10	DBSPN012GDS	3700
16 way	2	14	DBSPN016GDS	4595
18 way	2	16	DBSPN018GDS	4890
IP 54 - Metal Door				
4 way	2	2	DBSPN00454S	6910
6 way	2	4	DBSPN00654S	7705
8 way	2	6	DBSPN00854S	8195
12 way	2	10	DBSPN01254S	9410
16 way	2	14	DBSPN01654S	10480
18 way	2	16	DBSPN01854S	10710

Highlights

- Conforms to IS 8623-1 & 3, 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 labels
- With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBS as outgoings



IP 30 - Single Door



IP 43 - Metal Door



IP 43 - Glazed Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 30 - Single Door				
4 way	4	4+4+4	DBTPE004SDS	3940
6 way	4	6+6+6	DBTPE006SDS	4840
8 way	8	4+4+4	DBTPN004SDS	4135
12 way	8	6+6+6	DBTPN006SDS	5095
16 way	8	8+8+8	DBTPN008SDS	6010
12 way	8	12+12+12	DBTPN012SDS	8655
16 way	8	16+16+16	DBTPN016SDS	10650
IP 43 - Metal Door				
4 way	4	4+4+4	DBTPE004DDS	4610
6 way	4	6+6+6	DBTPE006DDS	5730
4 way	8	4+4+4	DBTPN004DDS	4825
6 way	8	6+6+6	DBTPN006DDS	6010
8 way	8	8+8+8	DBTPN008DDS	7215
12 way	8	12+12+12	DBTPN012DDS	10760
16 way	8	16+16+16	DBTPN016DDS	13350
IP 43 - Glazed Door				
4 way	4	4+4+4	DBTPE004GDS	6265
6 way	4	6+6+6	DBTPE006GDS	7525
4 way	8	4+4+4	DBTPN004GDS	6515
6 way	8	6+6+6	DBTPN006GDS	7880
8 way	8	8+8+8	DBTPN008GDS	9365
12 way	8	12+12+12	DBTPN012GDS	14365
16 way	8	16+16+16	DBTPN016GDS	17265
IP 54 - Metal Door				
4 way	4	4+4+4	DBTPE00454S	15645
6 way	4	6+6+6	DBTPE00654S	18285
4 way	8	4+4+4	DBTPN00454S	16615
6 way	8	6+6+6	DBTPN00654S	20005
8 way	8	8+8+8	DBTPN00854S	21870
12 way	8	12+12+12	DBTPN01254S	30825
16 way	8	16+16+16	DBTPN01654S	36995

Highlights

- Conforms to IS 8623-1 & 3, 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

**Horizontal PPI DBs**

IP 43 - Metal Door

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	8	2+2+2	4+4+4	DBHPI004DD	8515
6 way	8	2+2+2	6+6+6	DBHPI006DD	10085
8 way	8	2+2+2	8+8+8	DBHPI008DD	12095
12 way	8	2+2+2	12+12+12	DBHPI012DD	16660
16 way	8	2+2+2	16+16+16	DBHPI016DD	19985

**Tier PPI DBs**

IP 43 - Metal Door

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
6 way	8	2+2+2	6+6+6	DBTPI006DD	10460
8 way	8	2+2+2	8+8+8	DBTPI008DD	13115
10 way	8	2+2+2	10+10+10	DBTPI010DD	13750
12 way	8	2+2+2	12+12+12	DBTPI012DD	14565
16 way	8	2+2+2	16+16+16	DBTPI016DD	16610
12 way	MCCB*	2+2+2	12+12+12	DBTPL012DD	15580

* Suitable for 3 Pole & 4 Pole DU100H, DU100D, DN0-100D & DN0-100C MCCB as incomer

Highlights

- Conforms to IS 8623-1 & 3, 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 1. Modular Incomer - FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings
- 2. MCCB Incomer - MCCB* as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings

**With Modular Incomer**

IP 43 - Metal Door

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	8	4+4+4	4+4+4	DBPSG004DD	12775
6 way	8	4+4+4	6+6+6	DBPSG006DD	14405
8 way	8	4+4+4	8+8+8	DBPSG008DD	16070
12 way	8	4+4+4	12+12+12	DBPSG012DD	19935

**With MCCB Incomer**

IP 43 - Metal Door

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	MCCB	4+4+4	4+4+4	DBPGL004DD	17570
6 way	MCCB	4+4+4	6+6+6	DBPGL006DD	20095
8 way	MCCB	4+4+4	8+8+8	DBPGL008DD	23240
12 way	MCCB	4+4+4	12+12+12	DBPGL012DD	26210

* Suitable for 3 Pole & 4 Pole DU100H, DU100D, DN0-100D & DN0-100C MCCB as incomer

TPN Phase Selector DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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 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



IP 43 - Metal Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 43 - Metal Door				
4 way	8	4+4+4	DBPSR004DD	17425
6 way	8	6+6+6	DBPSR006DD	17705
8 way	8	8+8+8	DBPSR008DD	18965
10 way	8	10+10+10	DBPSR010DD	20260
12 way	8	12+12+12	DBPSR012DD	21355

Flexi/Row DB [8537]



Highlights

- Conforms to IS 8623-1 & 3, 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



IP 43 - Metal Door

Description	No. of Modules Per Row	Cat. Nos.	M.R.P. (₹) Per Unit
IP 43 - Metal Door			
2 Row 28 Module	14	DBROW228DD	6225
3 Row 42 Module	14	DBROW342DD	7465
4 Row 56 Module	14	DBROW456DD	8115
4 Row 64 Module	16	DBROW464DD	9440

Vertical TPN DB with Modular Incomer [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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 outgoings



IP 43 - Metal Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 43 - Metal Door				
4 way	8	4+4+4	DBVTM004DD	11940
6 way	8	6+6+6	DBVTM006DD	13365
8 way	8	8+8+8	DBVTM008DD	15510
12 way	8	12+12+12	DBVTL012DD	21025
16 way	8	16+16+16	DBVTL016DD	24850
IP 54 - Metal Door				
4 way	8	4+4+4	DBVTL00454	25245
6 way	8	6+6+6	DBVTL00654	27670
8 way	8	8+8+8	DBVTL00854	30550

Vertical TPN DB with MCCB Incomer [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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 outgoings



IP 43 - Metal Door
Up to 125A MCCB Incomer

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
IP 43 - Metal Door				
4 way	MCCB	4+4+4	DBVTL004DD	14120
6 way	MCCB	6+6+6	DBVTL006DD	16050
8 way	MCCB	8+8+8	DBVTL008DD	17670
12 way	MCCB	12+12+12	DBVTL012DD	24040
16 way	MCCB	16+16+16	DBVTL016DD	28675
IP 54 - Metal Door				
4 way	MCCB	4+4+4	DBVTL00454	29250
6 way	MCCB	6+6+6	DBVTL00654	33355
8 way	MCCB	8+8+8	DBVTL00854	36110

* Suitable for 3 Pole & 4 Pole DU100H, DU100D, DU125D, DU125H & DN0 MCCB as incomer



Vertical TPN DB with MCCB Incomer [8537]

Up to 250A MCCB Incomer



IP 30 - Single Door



IP 43 - Metal Door

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
IP 43 - Metal Door				
4 way	MCCB	4+4+4	DBVTH004DD	18180
6 way	MCCB	6+6+6	DBVTH006DD	20360
8 way	MCCB	8+8+8	DBVTH008DD	22390
12 way	MCCB	12+12+12	DBVTH012DD	27350
16 way	MCCB	16+16+16	DBVTH016DD	36420
IP 54 - Metal Door				
4 way	MCCB	4+4+4	DBVTH00454	33570
6 way	MCCB	6+6+6	DBVTH00654	36655
8 way	MCCB	8+8+8	DBVTH00854	37910

* Suitable for 3 pole and 4 pole DU250, DU250C & DN1 MCCB as incomer

Enclosure [8537]

Highlights

- Conforms to IS 8623-1 & 3, 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
IP 30 - Metal Door			
2 way	2	DBENC002SD	775
3 way	3	DBENC003SD	775
4 way	4	DBENC004SD	775
6 way	6	DBENC006SD	1180

Plug & Socket DB [8537]



Highlights

- Conforms to IS 8623-1 & 3, 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	DBMPS110SD	1925
20 A, 2 Pin + SC^	P + N	1	DBMPS120SD	2070
20 A, 2 Pin + SC^	P + N	2	DBMPS220SD	2245
20 A, 3 Pin + SC^	3P	3	DBMPS320SD	3805
32 A, 3 Pin + SC^	3P	3	DBMPS332SD	4500
32 A, 3 Pin + SC^	3P	4	DBMPS432SD	4790
63 A, 5 Pin + SC^	3P+N+E	4	DBMPS463SD	16225
Plastic Plug & Sockets				
16 A, 3 Pin	P+N+E	2	DBPPS316SD	3150
32 A, 3 Pin	P+N+E	4	DBPPS332SD	3400
32 A, 5 Pin	3P+N+E	8	DBPPS532SD	5680
63 A, 5 Pin	3P+N+E	8	DBPPS563SD	14220

Metal Plug [8536]



Description	No. of Pins	Cat. Nos.	M.R.P. (₹) Per Unit
10 A, 2 Pin + SC^	P + N	MPS210P	185
20 A, 2 Pin + SC^	P + N	MPS220P	195
20 A, 3 Pin + SC^	3P	MPS320P	255
32 A, 3 Pin + SC^	3P	MPS332P	490

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	190
20 A, 2 Pin + SC^	P + N	MPS220S	210
20 A, 3 Pin + SC^	3P	MPS320S	290
32 A, 3 Pin + SC^	3P	MPS332S	490

[^] 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



DB Type	Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
		Incomer + Outgoing			
IP 43 - Metal Door					
SPN	6 way	2	4	DBSPN006DDTV	4295
	8 way	2	6	DBSPN008DDTV	4615
	12 way	2	10	DBSPN012DDTV	5680
	16 way	2	14	DBSPN016DDTV	6585
	18 way	2	16	DBSPN018DDTV	7790
TPN	4 way	8	4+4+4	DBTPN004DDTV	8440
	6 way	8	6+6+6	DBTPN006DDTV	9745
	8 way	8	8+8+8	DBTPN008DDTV	11620

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	DBSPN004CBS	845
CEB-SPN Double Door, 6 way	DBSPN006CBS	905
CEB-SPN Double Door, 8 way	DBSPN008CBS	1015
CEB-SPN Double Door, 12 way	DBSPN012CBS	1130
CEB-SPN Double Door, 16 way	DBSPN016CBS	1590
CEB-SPN Double Door, 18 way	DBSPN018CBS	1645
CEB for TPN DBs		
CEB-TPE Double Door, 4 way	DBTPE004CBS	1090
CEB-TPE Double Door, 6 way	DBTPE006CBS	1550
CEB-TPN Double Door, 4 way	DBTPN004CBS	1140
CEB-TPN Double Door, 6 way	DBTPN006CBS	1600
CEB-TPN Double Door, 8 way	DBTPN008CBS	2015
CEB-TPN Double Door, 12 way	DBTPN012CBS	3345
CEB-TPN Double Door, 16 way	DBTPN016CBS	3375
CEB for Horizontal PPI DBs		
CEB-Hor. PPI Double Door, 4 way	DBHPI004CB	1690
CEB-Hor. PPI Double Door, 6 way	DBHPI006CB	2105
CEB-Hor. PPI Double Door, 8 way	DBHPI008CB	2645
CEB-Hor. PPI Double Door, 12 way	DBHPI012CB	3315
CEB-Hor. PPI Double Door, 16 way	DBHPI016CB	3605
CEB for VTPN DBs		
CEB-VTPN Double Door, Modular Incomer	DBVTMXXXCB	1130
CEB-VTPN Double Door, MCCB Incomer	DBVTPXXXCB	3985
CEB for Phase Segregated DBs		
CEB-PSG Double Door, 4 way	DBPSG004CB	2955
CEB-PSG Double Door, 6 way	DBPSG006CB	3525
CEB-PSG Double Door, 8 way	DBPSG008CB	3895
CEB-PSG Double Door, 12 way	DBPSG012CB	4335

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	375	5
SP 56 Mod	BSP56	1540	5
DP 12 Mod	BDP12	670	5
TP 12 Mod	BTP12	720	5
FP 12 Mod	BFP12	1430	5
End Caps for SP	ECP01	25	10
End Caps for DP/TP	ECP03	50	10
End Caps for FP	ECP04	85	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	655	5



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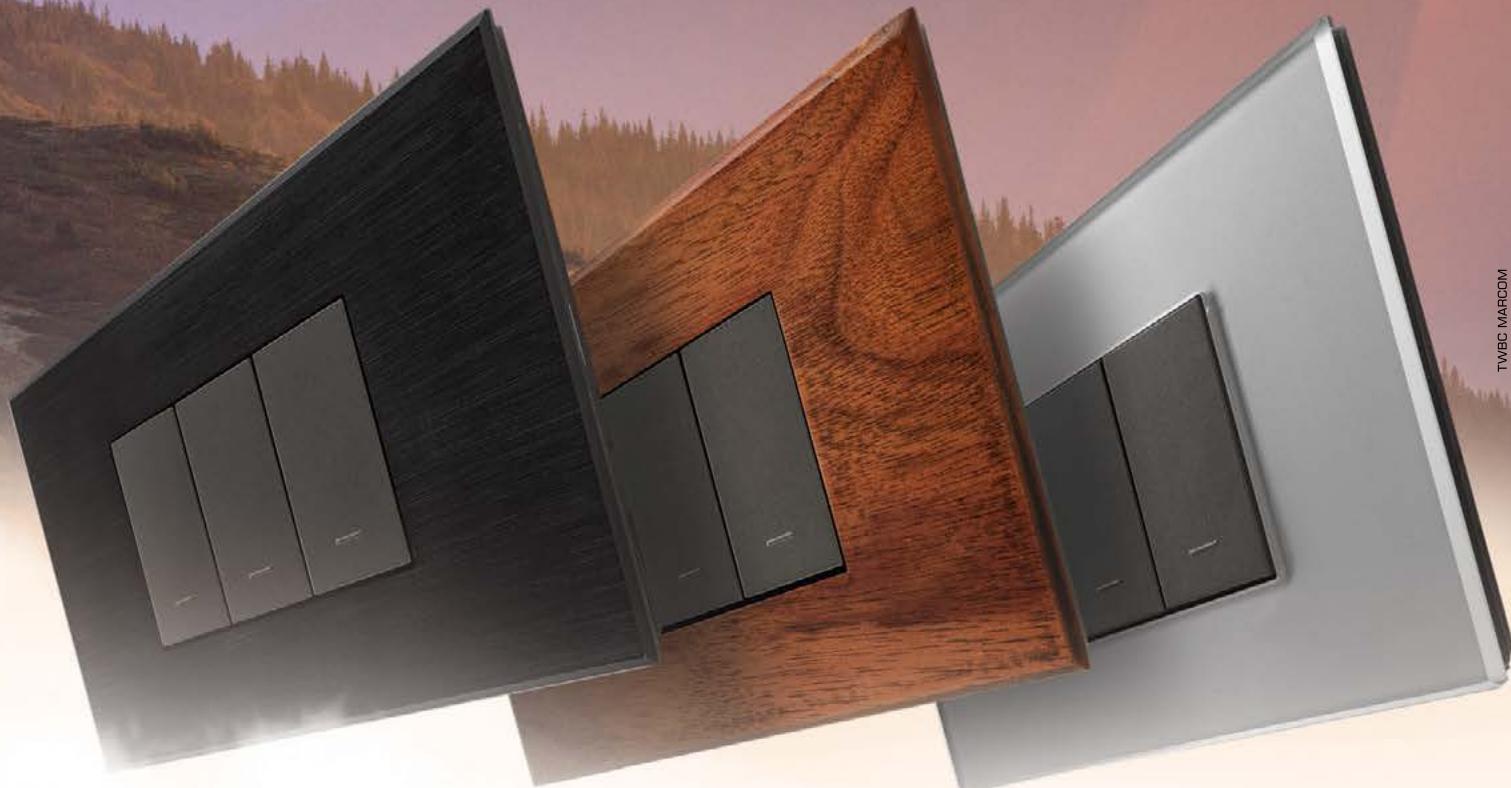
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Soft Starters	EMX3	EMX4
Controlgear	MN0 control contactor, its spares and accessories	MO0 control contactor, its spares and accessories
Controlgear	MVO contactors	MNX contactor (up to 650 A)

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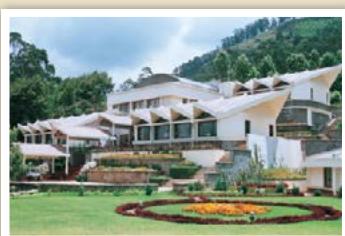
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