

CIRCUIT  
PROTECTION  
EQUIPMENT

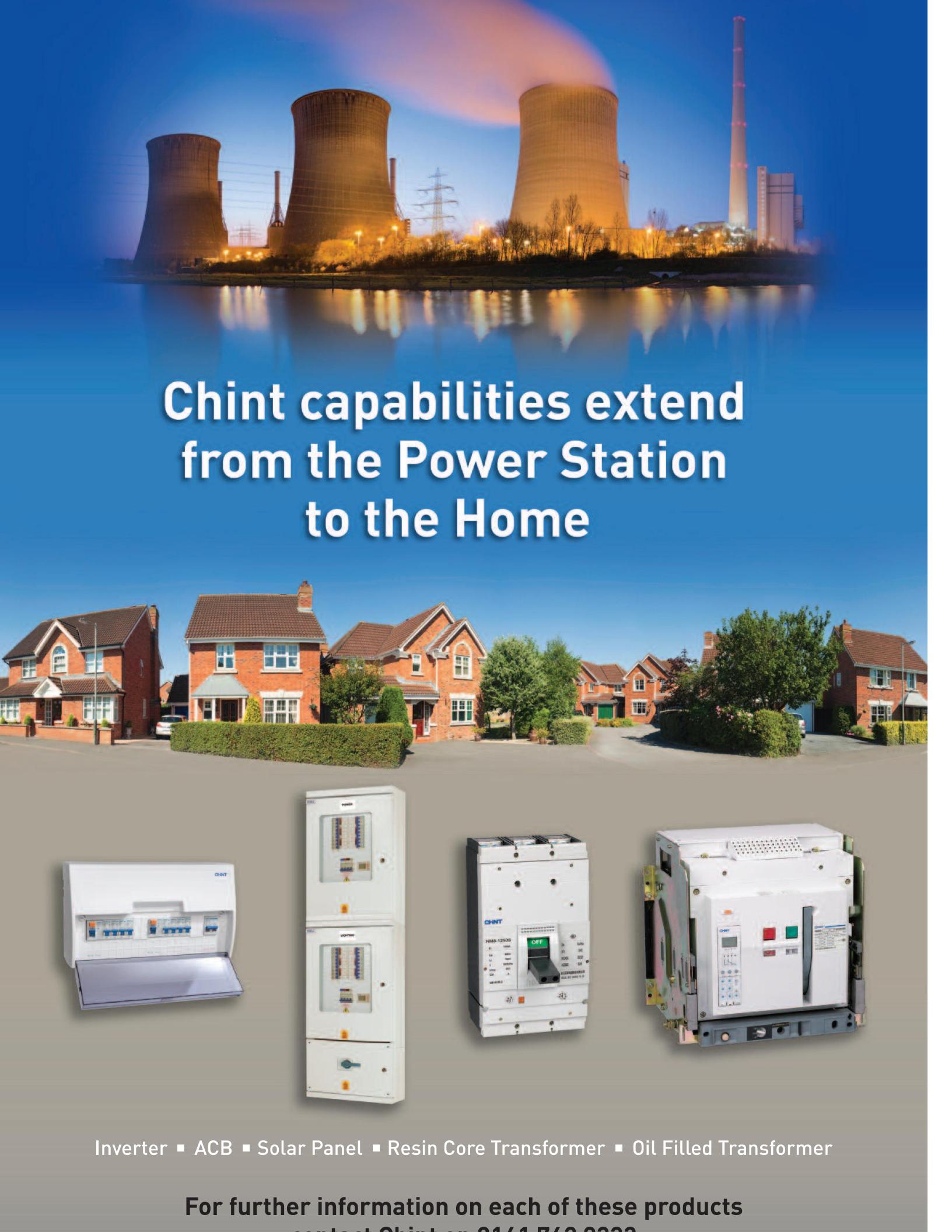


MOTOR  
CONTROL  
GEAR  
COMPONENTS



POWER  
PROTECTION  
DEVICES





# Chint capabilities extend from the Power Station to the Home



Inverter ■ ACB ■ Solar Panel ■ Resin Core Transformer ■ Oil Filled Transformer

For further information on each of these products  
contact Chint on 0161 762 0222



CHINT EUROPE (UK) LTD

## CIRCUIT PROTECTION EQUIPMENT

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Minimum order value is £50.00.

Orders above £300 carriage paid.

Orders under £300 carriage is £12.50.

Saturday and Special timed deliveries are available at extra cost.

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## AT CHINT WE ENDEAVOUR TO:

To supply product equal to the best  
Be competitive in price, offering true value for money  
React in a timely manner  
Be easy to trade with





# CIRCUIT PROTECTION EQUIPMENT

# CHINT SHIELD

## Shield Range NXDB 125A TP&N Distribution Boards and Metering Solutions



- Individual boards are supplied with 125A Busbars and 4P, 125A Isolators
- Where 2 boards are combined using Splitter Kit MRJ4M-LS02, a 4P 250A Isolator is included
- Extension/Spreader Boxes part no. EX1803/SB are prefitted with a full width piece of 35mm Top Hat section Din Rail for housing a wide selection of Control Panel Components
- Various locking options are available
- Can be mounted together either Vertically OR Horizontally as Combined Power and Lighting Boards helping address Section L2 of the current Building Regulations



Metering Capability



## NXDB MK III Product Overview

**Robust ALL METAL TP&N Boards: 4, 6, 8, 12 and 18 Ways,  
alternatively with Glazed Door.**

Boards can be mounted together, **vertically** or **horizontally** with or without **Meter kits**. Extension Boxes are available for use as Cable Spreader units, fitted with 35mm DIN rail to mount various components, alternatively with a 250A, 4 Pole Isolator to be used where 2 boards are combined.

Units are Powder Coated to RAL 7035 over pretreated Heavy Gauge Steel with welded corners.

A wide selection of laser pre cut cable entries which are easily removed without deforming the outer case.

A selection of PAN assemblies are available for mounting directly to Control Panels. 8, 12, and 18 ways.

The boards are available as individual units as shown on the following pages, alternatively Chint will assemble them to customer specification, fitting MCBs, RCBOs as detailed.



**PLEASE NOTE:**

Where Chint assemble boards to customer requirements be aware that weight may be an issue. Chint will take responsibility for shipping to a UK site address with the equipment mounted where appropriate to pallets and off loaded at the Kerbside. It is the client's responsibility to remove the equipment from the kerbside to a final installation point. We use 3rd party contractors for shipping, it is **crucial that firm arrangements are made to receive the goods.**

\*Various weights are shown. Carriage is charged extra on NXDB Boards.

## Product Features

### Chint 125A "SERIES 3" B Boards

Chint "Series 3" B Boards are manufactured from Sheet Steel to meet the requirements of **BS-EN 60439** with an **IP rating of IP3X**.

The main boards designed and manufactured in the UK are of pleasing appearance, finished in smooth powder coated pale grey paint to RAL 7035 over pre treated steel.

Available sizes are 4, 6, 8, 12 and 18 Ways, a 4 Pole 125A Incomer is included as standard.

- **4, 6, 8, 12 and 18 Way, boards made in the UK**
- **Accepts Chint 6KA and 10KA MCBs, 10KA RCBOs**
- **4 Pole, 125A Incomer fitted as standard**
- **Locking Capability – Separately Padlockable Main Boards and Extension Boxes**
- **Can be mounted in either portrait or landscape format as Power & Lighting Boards**



250A Mains Incomer Unit



Isolator can be locked off



Accessory: NXDB-Link



Chint NXDB MK III Distribution Boards are pre fitted with  $\frac{1}{2}$  turn coin operated fasteners to both the main boards and the cable spreader boxes.

## Product Features

### Chint NXDB MK III Showing Glazed Doors



Glazed Door Main Panel and plain front Cable Spreader Box.



Glazed Door Main Panel with a bottom fitted Extension Box for use either as an Extension Box or Metering Unit.

## Easy Viewing, Neutral Colour

**Chint NXDB Mk III TP&N Distribution Boards** are readily available with all metal, or glazed doors, finished in a pleasing neutral colour so as not to look out of place in most Commercial, Industrial applications.

The Cable Spreader Boxes are supplied with a full length of 35mm DIN Rail to allow components such as contactors, MCBs and various other components to be easily mounted either side of the incoming cables, in effect build a mini Control Panel.

The Acrylic Glazing is held in place with high specification adhesive.



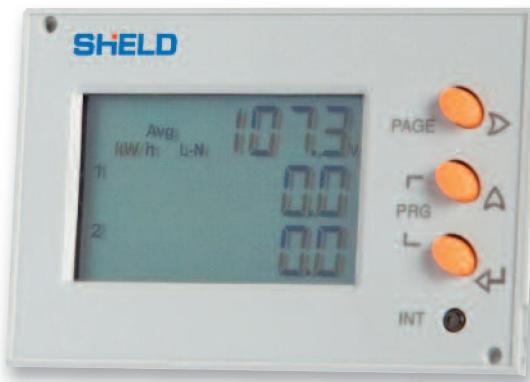
Wide range of Circular Conduit holes and square cut out for trunking, these are all laser pre cut so as to give easy access without damaging the Gland Plates.



## Metering

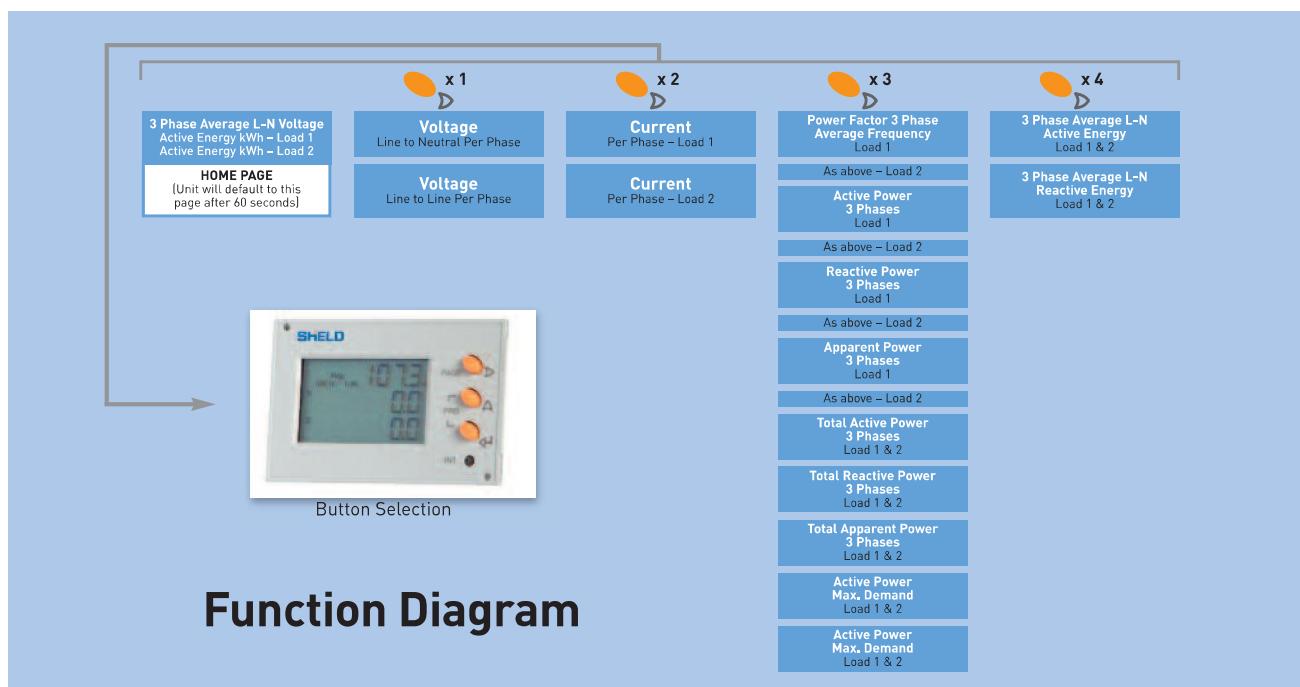
### With Double CT Connection, DIN Rail Mounting and LCD Display

- Split Load, Dual CT Input Meter
- 4 Module DIN Rail mounting
- Single phase or 3 phase (4 wire) network balanced or unbalanced load
- Built-in dual energy pulse output, one for each load and RS485 MODBUS communication
- Wide range of measured parameters (see table below)
- High quality backlit LCD display
- 330mV current Transformer input
- Active energy class 1 (EN62053-21)
- Reactive energy class 2 (EN62053-23)
- THD up to 31st harmonic for voltage and current
- 3 phase: 140...460Vac measured voltage

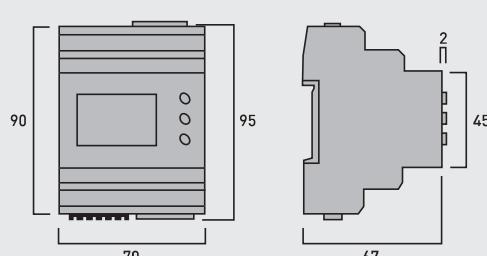


MRJ4M-SL

- Single phase: 80...265Vac measured voltage
- Self supplied auxiliary
- Programmable CT ratio 5...10,000A per load
- Programmable VT ratio
- Frequency 45/65Hz
- Selectable CT phase correction allows reversal of L1 and L3
- Weight 200g



## Power Meter Dimensions

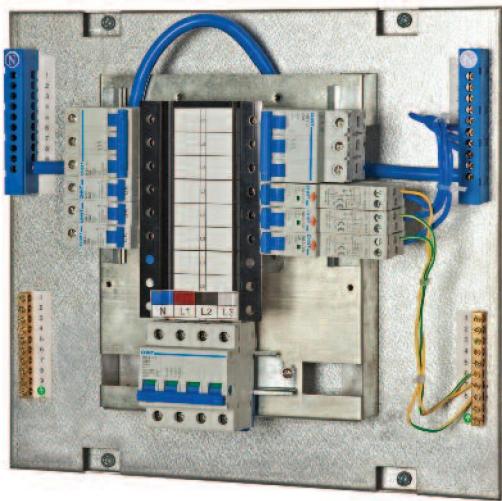


Please allow space above and below the meter for cable connections. Dimensions in mm

## PAN Assemblies

A new range of **Panel Mounting PAN Assemblies** suitable for the following MCB ranges is introduced **8, 12 and 18 ways.**

The PAN assemblies accept the Chint **ASTA approved** B, C or D Curve 6 or 10KA MCBs, 6A - 40A B or C Curve RCBOs, they are supplied as standard with a 125A, 4 Pole Incomer.



**Part Numbers and Dimensions for NXDB TP&N Boards, PAN Assemblies & Accessories**

| DESCRIPTION                                    | PART NO.   | HEIGHT | WIDTH | DEPTH |
|--|------------|--------|-------|-------|
| <b>3 PHASE TP&amp;N BOARDS – ALL METAL</b>     |            |        |       |       |
| 4 Way  | NXDB-4     | 600    | 500   | 155   |
| 6 Way  | NXDB-6     | 700    | 500   | 155   |
| 8 Way  | NXDB-8     | 735    | 500   | 155   |
| 12 Way   | NXDB-12    | 850    | 500   | 155   |
| 18 Way   | NXDB-18    | 1,000  | 500   | 155   |
| <b>3 PHASE TP&amp;N BOARDS – GLAZED WINDOW</b> |            |        |       |       |
| 4 Way  | NXDB-4G    | 600    | 500   | 155   |
| 6 Way  | NXDB-6G    | 700    | 500   | 155   |
| 8 Way  | NXDB-8G    | 735    | 500   | 155   |
| 12 Way   | NXDB-12G   | 850    | 500   | 155   |
| 18 Way   | NXDB-18G   | 1,000  | 500   | 155   |
| <b>PANEL MOUNTING PAN ASSEMBLIES</b>           |            |        |       |       |
| 8 Way PAN Assembly                             | PA-08      | 555    | 428   | 120   |
| 12 Way PAN Assembly                            | PA-12      | 715    | 428   | 120   |
| 18 Way PAN Assembly                            | PA-18      | 950    | 428   | 120   |
| <b>ACCESSORIES</b>                             |            |        |       |       |
| Spreader Box                                   | EX-1803/SB | 400    | 500   | 155   |
| 250A, 4P Incomer Unit with Cable Shrouds       | EX-4250    | 400    | 500   | 155   |
| Single Meter Kit                               | MRJ4M-LS01 | -      | -     | -     |
| Dual Meter Kit, Enclosure, Incomer & Cables    | MRJ4M-LS02 | 400    | 500   | 155   |
| 18mm Blanking Plates (2 pieces)                | NXDB-BP    | -      | -     | -     |
| 3 Phase – Single Phasing Link                  | NXDB-LINK  | -      | -     | -     |
| Padlock and Fixing Kit                         | NXDB.LOCK  | -      | -     | -     |

## Power and Lighting Boards

The Chint solution to metering the output from individual 3 Phase Boards is both elegant and convenient and can be applied to all NXDB boards i.e. to Chint 4, 6, 8, 12 and 18 Way boards.

We can supply the following as kits for assembly on site, alternatively we are happy to assemble to suit specific applications based on our basic format as shown on the front cover.

Where we are asked to assemble boards to suit specific needs it is recommended that an initial telephone call is made to our office possibly followed by a site meeting. Please be aware that dependent on how the boards are to be configured site weight – handling will be a consideration.



### THE SINGLE BOARD KIT

Part No. MRJ4M-LS01 comprises:

- 1 x 3 Pole 1A MCB  
(Pt. no. NB1-63B3P01)
- 1 x Meter  
(Pt. no. MRJ4M-SL)
- 1 x Current Transformer  
(Pt. no. TAS242EW)
- 1 x Supply Cable  
(Pt. no. TASMVSC1.00)
- 1 x Communications Cable  
(Pt. no. L67 7010 RJ45)
- 2 x End Stops

### THE TWIN BOARD KIT

Part No. MRJ4M-LS02 comprises:

- 1 x 4 Pole Mains Splitter Box with 125A, 4 Pole Incomer
- 2 x 3 Pole 1A MCBs  
(Pt. no. NB1-63B3P01)
- 2 x Meters  
(Pt. no. MRJ4M-SL)
- 2 x Current Transformers  
(Pt. no. TAS242EW)
- 2 x Supply Cables  
(Pt. no. TASMVSC1.00)
- 2 x Communications Cables  
(Pt. no. L67 7010 RJ45)
- 4 Pole Mains and Earth Interconnection Cables as appropriate

#### IMPORTANT NOTE:

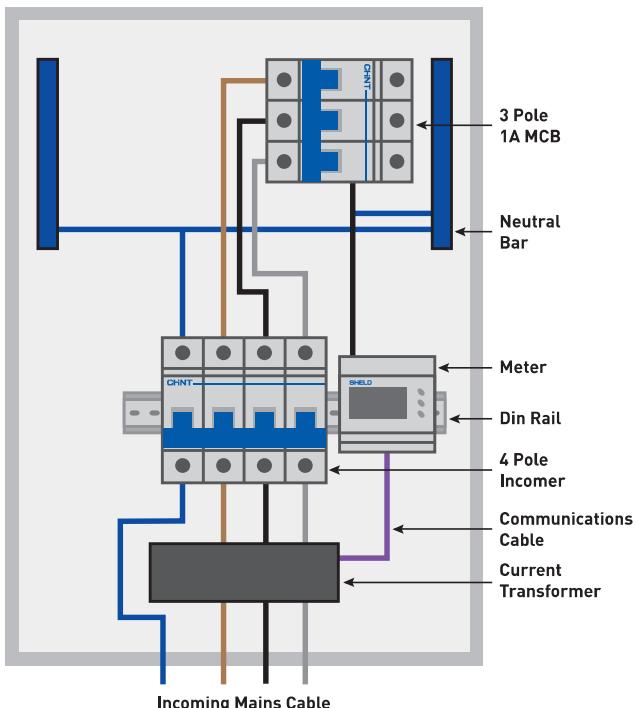
When sizing the correct size of board be aware that the MCB feeding the meter etc., takes up 3 full Ways, thereby reducing the effective size of each board by 1, 3 way module, i.e. A 4 Way board becomes 3, 6 Way

## Wiring Diagrams

There is a full range of **ASTA approved** B, C and D Curve MCBs and B and C Curve RCBOs readily available to complement the **Chint NXDB TP&N Distribution Boards**.

### SINGLE BOARD

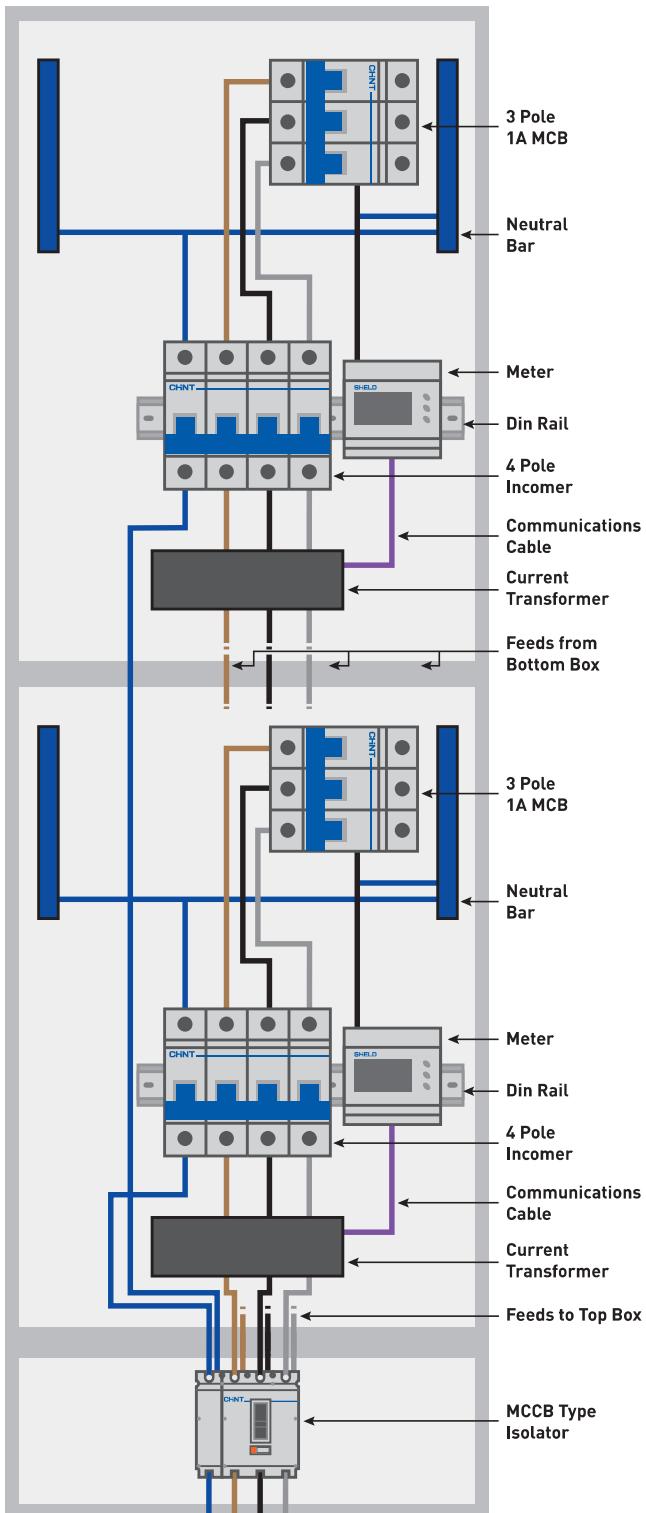
Part No. MRJ4M-LS01



Chint are happy to fully assemble the boards and metering systems and to fit the MCBs, RCBOs etc., to customer specifications although handling of the equipment on site due to weight needs to be a consideration\*.

### TWIN BOARD

Part No. MRJ4M-LS02



#### \*PLEASE NOTE:

Chint will take responsibility for shipping to an agreed UK location on appropriate pallets. Our carrier will offload to the roadside after which it will be Client's responsibility to transfer to the

## NXDB MK III Options

**Chint NXDB Distribution Boards** can be supplied with all Metal covers or Plastic "see-through covers", or a mixture of both to suit customers' specifications.

The following part numbers are the most popular, although other variants can be supplied as required. Part numbers suffixed **MK**, i.e. **NXDB-4MK** are all metal construction and suffix **MKG**, i.e. **NXDB4MKG** are supplied with a plastic window.

Please speak with our sales office should you require a mixture.

All NXDB Boards are supplied prefitted with 4 Pole 125A Incomers with the main Neutral wired to appropriate Terminal Blocks.

### ALL METAL



| PART NO.    | APPROX. WEIGHT (KG) |
|-------------|---------------------|
| NXDB-4MK    | 19                  |
| NXDB-6MK    | 21                  |
| NXDB-8MK    | 22                  |
| NXDB-12MK   | 24                  |
| NXDB-18MK   | 28                  |
| NXDB-44MK   | 48                  |
| NXDB-46MK   | 50                  |
| NXDB-48MK   | 51                  |
| NXDB-412MK  | 53                  |
| NXDB-418MK  | 57                  |
| NXDB-66MK   | 52                  |
| NXDB-68MK   | 53                  |
| NXDB-612MK  | 55                  |
| NXDB-618MK  | 59                  |
| NXDB-88MK   | 54                  |
| NXDB-812MK  | 56                  |
| NXDB-818MK  | 60                  |
| NXDB-1212MK | 58                  |
| NXDB-1218MK | 63                  |
| NXDB-1818MK | 66                  |

### GLAZED WINDOW



| PART NO.     | APPROX. WEIGHT (KG) |
|--------------|---------------------|
| NXDB-4MKG    | 18                  |
| NXDB-6MKG    | 20                  |
| NXDB-8MKG    | 21                  |
| NXDB-12MKG   | 23                  |
| NXDB-18MKG   | 27                  |
| NXDB-44MKG   | 47                  |
| NXDB-46MKG   | 49                  |
| NXDB-48MKG   | 50                  |
| NXDB-412MKG  | 52                  |
| NXDB-418MKG  | 56                  |
| NXDB-66MKG   | 51                  |
| NXDB-68MKG   | 52                  |
| NXDB-612MKG  | 54                  |
| NXDB-618MKG  | 58                  |
| NXDB-88MKG   | 53                  |
| NXDB-812MKG  | 55                  |
| NXDB-818MKG  | 59                  |
| NXDB-1212MKG | 57                  |
| NXDB-1218MKG | 62                  |
| NXDB-1818MKG | 65                  |

## NM1T Enclosed MCCBs

MCCBs Independently Tested and Approved to IEC/EN 60947-2



- 3 Pole and 4 Pole with neutral
- Steel enclosure rated at IP66
- Ratings of MCCBs easily adjusted down by 20%
- MCCBs KEMA approved to 50KA
- Removable bottom gland plate
- Can be padlocked off

### 3P, NM1T ENCLOSED MCCBs (ALL WITH ISOLATING LINKS)

| DESCRIPTION              | PART NO.    |
|--------------------------|-------------|
| 32A, 3 Pole and Neutral  | NM1T-32/3N  |
| 63A, 3 Pole and Neutral  | NM1T-63/3N  |
| 125A, 3 Pole and Neutral | NM1T-125/3N |
| 250A, 3 Pole and Neutral | NM1T-250/3N |
| 400A, 3 Pole and Neutral | NM1T-400/3N |
| 630A, 3 Pole and Neutral | NM1T-630/3N |

### 4P, NM1T ENCLOSED MCCBs (ALL WITH ISOLATING LINKS)

| DESCRIPTION              | PART NO.    |
|--------------------------|-------------|
| 32A, 4 Pole and Neutral  | NM1T-32/4N  |
| 63A, 4 Pole and Neutral  | NM1T-63/4N  |
| 80A, 4 Pole and Neutral  | NM1T-80/4N  |
| 100A, 4 Pole and Neutral | NM1T-100/4N |
| 125A, 4 Pole and Neutral | NM1T-125/4N |
| 200A, 4 Pole and Neutral | NM1T-200/4N |
| 250A, 4 Pole and Neutral | NM1T-250/4N |
| 400A, 4 Pole and Neutral | NM1T-400/4N |
| 630A, 4 Pole and Neutral | NM1T-630/4N |

## NM1TL Enclosed ELCB

MCCBs Independently Tested and Approved to IEC/EN 60947-2



- 3 Pole and 4 Pole with neutral
- Steel enclosure rated at IP66
- Ratings of MCCBs and RCDs can be easily adjusted
- MCCBs KEMA approved to 50KA
- Removable bottom gland plate
- Can be padlocked off
- Adjustable range for X1: (A) 0.05 - 0.1 - 0.2 - 0.5

### 3P, NM1TL ENCLOSED ELCB

| DESCRIPTION            | PART NO.          |
|------------------------|-------------------|
| 63A, 3P Enclosed ELCB  | NM1TL-063/3/X1/T1 |
| 100A, 3P Enclosed ELCB | NM1TL-100/3/X1/T1 |
| 160A, 3P Enclosed ELCB | NM1TL-160/3/X1/T1 |
| 200A, 3P Enclosed ELCB | NM1TL-200/3/X1/T1 |
| 250A, 3P Enclosed ELCB | NM1TL-250/3/X1/T1 |

### 4P, NM1TL ENCLOSED ELCB

| DESCRIPTION            | PART NO.          |
|------------------------|-------------------|
| 63A, 4P Enclosed ELCB  | NM1TL-063/4/X1/T1 |
| 100A, 4P Enclosed ELCB | NM1TL-100/4/X1/T1 |
| 160A, 4P Enclosed ELCB | NM1TL-160/4/X1/T1 |
| 200A, 4P Enclosed ELCB | NM1TL-200/4/X1/T1 |
| 250A, 4P Enclosed ELCB | NM1TL-250/4/X1/T1 |

## Wall Mounted Metal Enclosures



- IP65 Suitable for indoor and outdoor use
- Removable bottom gland plate
- Removable door
- Earth studs on base, door and back plate
- Powder coated steel finish to RAL 7035
- Back plate manufactured from 2mm Zinc plated steel
- Sizes shown here are stock items.  
Many more sizes available to special order.

### 4P, METAL ENCLOSURES IP65

| DESCRIPTION (in mm)           | PART NO.    |
|-------------------------------|-------------|
| 250h x 200w x 150d Empty Enc. | ENC-2520/15 |
| 300h x 250w x 150d Empty Enc. | ENC-3025/15 |
| 400h x 300w x 150d Empty Enc. | ENC-4030/15 |
| 500h x 400w x 150d Empty Enc. | ENC-5040/15 |
| 600h x 400w x 260d Empty Enc. | ENC-6040/26 |
| 700h x 500w x 260d Empty Enc. | ENC-7050/26 |
| 800h x 600w x 260d Empty Enc. | ENC-8060/26 |

## Single Phase Metal Consumer Units

- Total number of ways 8, 10, 12, 15, 18 and 20.  
(Deduct 2 ways for Incomer, RCD or DP Isolator)
- Surface OR Flush mount
- Drop-down see-through polycarbonate lids
- Knock outs are 30mm

- Supplied empty with loose Bus Bar, neutral connection and Isolator
- Metal units are ideal for use in Garages, Workshops and other industrial premises
- Ideal where Earth continuity for metal conduit. MICC cables are needed



### SINGLE PHASE METAL UNITS – SURFACE MOUNTED

| DESCRIPTION                                  | PART NO. |
|--|----------|
| 6 Way plus DP Isolator<br><br>(i.e. 8 Way)   | NX2-8T   |
| 8 Way plus DP Isolator<br><br>(i.e. 10 Way)  | NX2-10T  |
| 10 Way plus DP Isolator<br><br>(i.e. 12 Way) | NX2-12T  |
| 13 Way plus DP Isolator<br><br>(i.e. 15 Way) | NX2-15T  |
| 16 Way plus DP Isolator<br><br>(i.e. 18 Way) | NX2-18T  |
| 18 Way plus DP Isolator<br><br>(i.e. 20 Way) | NX2-20T  |



### SINGLE PHASE METAL UNITS – FLUSH MOUNTED

| DESCRIPTION                                  | PART NO. |
|--|----------|
| 6 Way plus DP Isolator<br><br>(i.e. 8 Way)   | NX2-8TF  |
| 8 Way plus DP Isolator<br><br>(i.e. 10 Way)  | NX2-10TF |
| 10 Way plus DP Isolator<br><br>(i.e. 12 Way) | NX2-12TF |
| 13 Way plus DP Isolator<br><br>(i.e. 15 Way) | NX2-15TF |
| 16 Way plus DP Isolator<br><br>(i.e. 18 Way) | NX2-18TF |
| 18 Way plus DP Isolator<br><br>(i.e. 20 Way) | NX2-20TF |

## Chint Consumer Units

- CHINT Consumer Units and empty enclosures range from the 3 module enclosure A29800, through to the 18 module enclosures NX2-18A
- All units are manufactured in neutral coloured Flame Retardant Magnolia coloured ABS, with clear fully drop down Polycarbonate covers
- 1/4 turn quick release fasteners enable safe yet speedy access to the interiors and removable internal assemblies allow maximum wiring access
- \*\*Excellent cabling access points from the rear and all 4 sides allow for a neat installation using appropriate sized trunking\*\*

## Dual RCDs Consumer Units



### DUAL RCDs CONSUMER UNITS

| DESCRIPTION  | PART NO.    |
|--|-------------|
| 8 Way    1 x 100A Main Switch<br>& 2 x 63A 30mA RCD  | NX2-14DSL-A |
| 8 Way    1 x 100A Main Switch<br>& 2 x 80A 30mA RCD  | NX2-14DSL-H |
| 12 Way    1 x 100A Main Switch<br>& 2 x 63A 30mA RCD | NX2-18DSL-A |
| 12 Way    1 x 100A Main Switch<br>& 2 x 80A 30mA RCD | NX2-18DSL-H |

- All the above can be easily modified to give High Integrity capability

## Split Load Consumer Units



### SPLIT LOAD CONSUMER UNITS

| DESCRIPTION                                  | PART NO. |
|--|----------|
| 3*3 Consumer Unit with<br>RCD & Isolator     | NX2-10W  |
| 5*5 Consumer Unit with<br>63A RCD & Isolator | NX2-14A  |
| 5*5 Consumer Unit with<br>80A RCD & Isolator | NX2-14H  |
| 7*7 Consumer Unit with<br>63A RCD & Isolator | NX2-18A  |
| 7*7 Consumer Unit with<br>80A RCD & Isolator | NX2-18H  |

## Consumer Units



### CONSUMER UNITS

| DESCRIPTION                  | PART NO. |
|------------------------------|----------|
| 6 usable Ways with Isolator  | NX2-8M   |
| 8 usable Ways with Isolator  | NX2-10M  |
| 12 usable Ways with Isolator | NX2-14M  |
| 16 usable Ways with Isolator | NX2-18M  |

### RCD CONSUMER UNIT PRE-FITTED WITH 2P RCD 63A, 30mA

| DESCRIPTION    | PART NO.  |
|----------------|-----------|
| 6 usable Ways  | NX2-8RCD  |
| 8 usable Ways  | NX2-10RCD |
| 12 usable Ways | NX2-14RCD |
| 16 usable Ways | NX2-18RCD |

### ACCESSORIES FOR CONSUMER UNITS

| DESCRIPTION            | PART NO. |
|------------------------|----------|
| Blanking Plate (4 pcs) | NX2-BP   |
| 14 Way Bus Bar         | BB14     |
| 18 Way Bus Bar         | BB18     |

## Enclosures & Pre-Assembled Enclosures



### ENCLOSURES

| DESCRIPTION                                      | PART NO. |
|--|----------|
| 3 Module IP65 Enclosure with Clear Drop Down Lid | NXW1-3   |
| 5 Module IP65 Enclosure with Clear Drop Down Lid | NXW1-5   |
| 10 Way Consumer Unit (Empty Board)               | NX2-10A  |



### PRE-ASSEMBLED ENCLOSURES

| DESCRIPTION   | PART NO. |
|---|----------|
| SHOWER UNIT   | A29800   |
| IP65 comes with 63A RCD & 40A MCB                                     |          |
| GARAGE/OUTBUILDING UNIT<br>IP65 comes with 63A RCD & 1*6A, 1*16A MCBS | A28600/2 |

## Pre-Assembled Consumer Units



NX2-18DSL-RH1

### PRE-ASSEMBLED CONSUMER UNITS

| DESCRIPTION                     | PART NO.      |
|---------------------------------|---------------|
| 5*5 Pre-Assembled Consumer Unit | NX2-14DSL-RH1 |
| 6*6 Pre-Assembled Consumer Unit | NX2-18DSL-RH1 |

## 28 & 36 Way Insulated Consumer Units

Double stacked Consumer Units offering maximum flexibility for large installations.

Both the top and bottom units are supplied with either 14 or 18 Way Bus Bars and 2 Interconnection cables with crimped ends allowing the boards to be

custom assembled to cater for a wide variety of protected and none protected ways.

Alternatively, the top unit can be used to house Bell Transformers, Contactors etc.



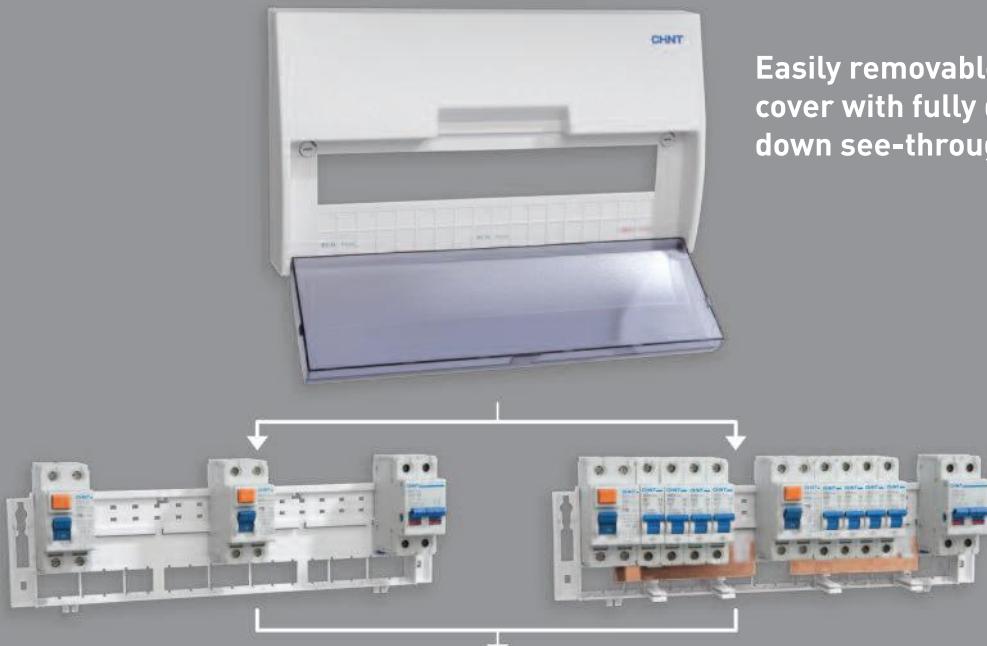
### 28 & 36 WAY INSULATED CONSUMER UNITS

| DESCRIPTION                         | PART NO. |
|-------------------------------------|----------|
| Double Stacked 28 Way Consumer Unit | NX2-28A  |
| Double Stacked 36 Way Consumer Unit | NX2-36A  |

- Rigid, flame proof UL94VO ABS construction
- Neutral magnolia finish
- Complete with 1\* 100A DP Isolator, 2\* 80A RCD and 2\* Interconnection Cables
- Excellent cabling access
- 2 Drop-down see-through polycarbonate lids
- Circuit labels and Blanking Plates included

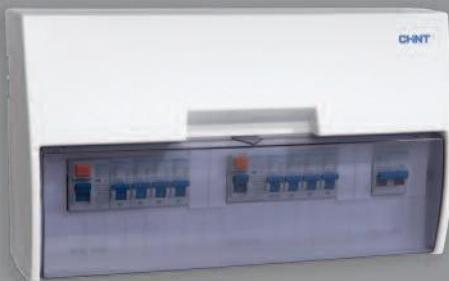
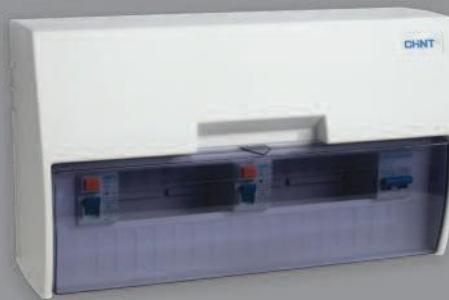
## Pre-Assembled Consumer Units

Manufactured from ULV0 Flame Retardant ABS



MCB mounting frame  
is easily removable  
to ease wiring

Rigid ABS base with  
ample cut outs and  
good wiring space



Smart installed  
appearance



## NB1 Series, 6KA Miniature Circuit Breakers

Independently Tested and Approved by:



| 1 POLE, 6KA |      |              |             |             | Boxed in 12s |
|-------------|------|--------------|-------------|-------------|--------------|
| In (A)      | Pole | PART NUMBERS |             |             |              |
|             |      | B CURVE      | C CURVE     | D CURVE     |              |
| 1           | 1P   | NB1-63B1P01  | NB1-63C1P01 | NB1-63D1P01 |              |
| 2           | 1P   | NB1-63B1P02  | NB1-63C1P02 | NB1-63D1P02 |              |
| 3           | 1P   | NB1-63B1P03  | NB1-63C1P03 | NB1-63D1P03 |              |
| 4           | 1P   | NB1-63B1P04  | NB1-63C1P04 | NB1-63D1P04 |              |
| 6           | 1P   | NB1-63B1P06  | NB1-63C1P06 | NB1-63D1P06 |              |
| 10          | 1P   | NB1-63B1P10  | NB1-63C1P10 | NB1-63D1P10 |              |
| 16          | 1P   | NB1-63B1P16  | NB1-63C1P16 | NB1-63D1P16 |              |
| 20          | 1P   | NB1-63B1P20  | NB1-63C1P20 | NB1-63D1P20 |              |
| 25          | 1P   | NB1-63B1P25  | NB1-63C1P25 | NB1-63D1P25 |              |
| 32          | 1P   | NB1-63B1P32  | NB1-63C1P32 | NB1-63D1P32 |              |
| 40          | 1P   | NB1-63B1P40  | NB1-63C1P40 | NB1-63D1P40 |              |
| 50          | 1P   | NB1-63B1P50  | NB1-63C1P50 | NB1-63D1P50 |              |
| 63          | 1P   | NB1-63B1P63  | NB1-63C1P63 | NB1-63D1P63 |              |



NB1, 1P

| 2 POLE, 6KA |      |              |             |             | Boxed in 6s |
|-------------|------|--------------|-------------|-------------|-------------|
| In (A)      | Pole | PART NUMBERS |             |             |             |
|             |      | B CURVE      | C CURVE     | D CURVE     |             |
| 1           | 2P   | NB1-63B2P01  | NB1-63C2P01 | NB1-63D2P01 |             |
| 2           | 2P   | NB1-63B2P02  | NB1-63C2P02 | NB1-63D2P02 |             |
| 3           | 2P   | NB1-63B2P03  | NB1-63C2P03 | NB1-63D2P03 |             |
| 4           | 2P   | NB1-63B2P04  | NB1-63C2P04 | NB1-63D2P04 |             |
| 6           | 2P   | NB1-63B2P06  | NB1-63C2P06 | NB1-63D2P06 |             |
| 10          | 2P   | NB1-63B2P10  | NB1-63C2P10 | NB1-63D2P10 |             |
| 16          | 2P   | NB1-63B2P16  | NB1-63C2P16 | NB1-63D2P16 |             |
| 20          | 2P   | NB1-63B2P20  | NB1-63C2P20 | NB1-63D2P20 |             |
| 25          | 2P   | NB1-63B2P25  | NB1-63C2P25 | NB1-63D2P25 |             |
| 32          | 2P   | NB1-63B2P32  | NB1-63C2P32 | NB1-63D2P32 |             |
| 40          | 2P   | NB1-63B2P40  | NB1-63C2P40 | NB1-63D2P40 |             |
| 50          | 2P   | NB1-63B2P50  | NB1-63C2P50 | NB1-63D2P50 |             |
| 63          | 2P   | NB1-63B2P63  | NB1-63C2P63 | NB1-63D2P63 |             |



NB1, 2P

## NB1 Series, 6KA Miniature Circuit Breakers

- 1 Pole: Boxed in 12s.
- 2 Pole: Boxed in 6s.
- 3 Pole: Boxed in 4s.
- 4 Pole: Boxed in 3s.

| <b>3 POLE, 6KA</b> |             |                     |                |                |
|--------------------|-------------|---------------------|----------------|----------------|
| <b>In (A)</b>      | <b>Pole</b> | <b>PART NUMBERS</b> |                |                |
|                    |             | <b>B CURVE</b>      | <b>C CURVE</b> | <b>D CURVE</b> |
| 1                  | 3P          | NB1-63B3P01         | NB1-63C3P01    | NB1-63D3P01    |
| 2                  | 3P          | NB1-63B3P02         | NB1-63C3P02    | NB1-63D3P02    |
| 3                  | 3P          | NB1-63B3P03         | NB1-63C3P03    | NB1-63D3P03    |
| 4                  | 3P          | NB1-63B3P04         | NB1-63C3P04    | NB1-63D3P04    |
| 6                  | 3P          | NB1-63B3P06         | NB1-63C3P06    | NB1-63D3P06    |
| 10                 | 3P          | NB1-63B3P10         | NB1-63C3P10    | NB1-63D3P10    |
| 16                 | 3P          | NB1-63B3P16         | NB1-63C3P16    | NB1-63D3P16    |
| 20                 | 3P          | NB1-63B3P20         | NB1-63C3P20    | NB1-63D3P20    |
| 25                 | 3P          | NB1-63B3P25         | NB1-63C3P25    | NB1-63D3P25    |
| 32                 | 3P          | NB1-63B3P32         | NB1-63C3P32    | NB1-63D3P32    |
| 40                 | 3P          | NB1-63B3P40         | NB1-63C3P40    | NB1-63D3P40    |
| 50                 | 3P          | NB1-63B3P50         | NB1-63C3P50    | NB1-63D3P50    |
| 63                 | 3P          | NB1-63B3P63         | NB1-63C3P63    | NB1-63D3P63    |



NB1, 3P

| <b>4 POLE, 6KA</b> |             |                     |                |                |
|--------------------|-------------|---------------------|----------------|----------------|
| <b>In (A)</b>      | <b>Pole</b> | <b>PART NUMBERS</b> |                |                |
|                    |             | <b>B CURVE</b>      | <b>C CURVE</b> | <b>D CURVE</b> |
| 1                  | 4P          | NB1-63B4P01         | NB1-63C4P01    | NB1-63D4P01    |
| 2                  | 4P          | NB1-63B4P02         | NB1-63C4P02    | NB1-63D4P02    |
| 3                  | 4P          | NB1-63B4P03         | NB1-63C4P03    | NB1-63D4P03    |
| 4                  | 4P          | NB1-63B4P04         | NB1-63C4P04    | NB1-63D4P04    |
| 6                  | 4P          | NB1-63B4P06         | NB1-63C4P06    | NB1-63D4P06    |
| 10                 | 4P          | NB1-63B4P10         | NB1-63C4P10    | NB1-63D4P10    |
| 16                 | 4P          | NB1-63B4P16         | NB1-63C4P16    | NB1-63D4P16    |
| 20                 | 4P          | NB1-63B4P20         | NB1-63C4P20    | NB1-63D4P20    |
| 25                 | 4P          | NB1-63B4P25         | NB1-63C4P25    | NB1-63D4P25    |
| 32                 | 4P          | NB1-63B4P32         | NB1-63C4P32    | NB1-63D4P32    |
| 40                 | 4P          | NB1-63B4P40         | NB1-63C4P40    | NB1-63D4P40    |
| 50                 | 4P          | NB1-63B4P50         | NB1-63C4P50    | NB1-63D4P50    |
| 63                 | 4P          | NB1-63B4P63         | NB1-63C4P63    | NB1-63D4P63    |



NB1, 4P

## NB1 Series, 10KA Miniature Circuit Breakers

Independently Tested and Approved by:



NB1, 1P

| 1 POLE, 10KA |      |              |              |              | Boxed in 12s |
|--------------|------|--------------|--------------|--------------|--------------|
| In (A)       | Pole | PART NUMBERS |              |              |              |
|              |      | B CURVE      | C CURVE      | D CURVE      |              |
| 1            | 1P   | NB1-63BH1P01 | NB1-63CH1P01 | NB1-63DH1P01 |              |
| 2            | 1P   | NB1-63BH1P02 | NB1-63CH1P02 | NB1-63DH1P02 |              |
| 3            | 1P   | NB1-63BH1P03 | NB1-63CH1P03 | NB1-63DH1P03 |              |
| 4            | 1P   | NB1-63BH1P04 | NB1-63CH1P04 | NB1-63DH1P04 |              |
| 6            | 1P   | NB1-63BH1P06 | NB1-63CH1P06 | NB1-63DH1P06 |              |
| 10           | 1P   | NB1-63BH1P10 | NB1-63CH1P10 | NB1-63DH1P10 |              |
| 16           | 1P   | NB1-63BH1P16 | NB1-63CH1P16 | NB1-63DH1P16 |              |
| 20           | 1P   | NB1-63BH1P20 | NB1-63CH1P20 | NB1-63DH1P20 |              |
| 25           | 1P   | NB1-63BH1P25 | NB1-63CH1P25 | NB1-63DH1P25 |              |
| 32           | 1P   | NB1-63BH1P32 | NB1-63CH1P32 | NB1-63DH1P32 |              |
| 40           | 1P   | NB1-63BH1P40 | NB1-63CH1P40 | NB1-63DH1P40 |              |
| 50           | 1P   | NB1-63BH1P50 | NB1-63CH1P50 | NB1-63DH1P50 |              |
| 63           | 1P   | NB1-63BH1P63 | NB1-63CH1P63 | NB1-63DH1P63 |              |



NB1, 2P

| 2 POLE, 10KA |      |              |              |              | Boxed in 6s |
|--------------|------|--------------|--------------|--------------|-------------|
| In (A)       | Pole | PART NUMBERS |              |              |             |
|              |      | B CURVE      | C CURVE      | D CURVE      |             |
| 1            | 2P   | NB1-63BH2P01 | NB1-63CH2P01 | NB1-63DH2P01 |             |
| 2            | 2P   | NB1-63BH2P02 | NB1-63CH2P02 | NB1-63DH2P02 |             |
| 3            | 2P   | NB1-63BH2P03 | NB1-63CH2P03 | NB1-63DH2P03 |             |
| 4            | 2P   | NB1-63BH2P04 | NB1-63CH2P04 | NB1-63DH2P04 |             |
| 6            | 2P   | NB1-63BH2P06 | NB1-63CH2P06 | NB1-63DH2P06 |             |
| 10           | 2P   | NB1-63BH2P10 | NB1-63CH2P10 | NB1-63DH2P10 |             |
| 16           | 2P   | NB1-63BH2P16 | NB1-63CH2P16 | NB1-63DH2P16 |             |
| 20           | 2P   | NB1-63BH2P20 | NB1-63CH2P20 | NB1-63DH2P20 |             |
| 25           | 2P   | NB1-63BH2P25 | NB1-63CH2P25 | NB1-63DH2P25 |             |
| 32           | 2P   | NB1-63BH2P32 | NB1-63CH2P32 | NB1-63DH2P32 |             |
| 40           | 2P   | NB1-63BH2P40 | NB1-63CH2P40 | NB1-63DH2P40 |             |
| 50           | 2P   | NB1-63BH2P50 | NB1-63CH2P50 | NB1-63DH2P50 |             |
| 63           | 2P   | NB1-63BH2P63 | NB1-63CH2P63 | NB1-63DH2P63 |             |

## NB1 Series, 10KA Miniature Circuit Breakers

- 1 Pole: Boxed in 12s.
- 2 Pole: Boxed in 6s.
- 3 Pole: Boxed in 4s.
- 4 Pole: Boxed in 3s.



NB1, 3P

| 3 POLE, 10KA |      |              |              |              | Boxed in 4s |
|--------------|------|--------------|--------------|--------------|-------------|
| In (A)       | Pole | PART NUMBERS |              |              |             |
|              |      | B CURVE      | C CURVE      | D CURVE      |             |
| 1            | 3P   | NB1-63BH3P01 | NB1-63CH3P01 | NB1-63DH3P01 |             |
| 2            | 3P   | NB1-63BH3P02 | NB1-63CH3P02 | NB1-63DH3P02 |             |
| 3            | 3P   | NB1-63BH3P03 | NB1-63CH3P03 | NB1-63DH3P03 |             |
| 4            | 3P   | NB1-63BH3P04 | NB1-63CH3P04 | NB1-63DH3P04 |             |
| 6            | 3P   | NB1-63BH3P06 | NB1-63CH3P06 | NB1-63DH3P06 |             |
| 10           | 3P   | NB1-63BH3P10 | NB1-63CH3P10 | NB1-63DH3P10 |             |
| 16           | 3P   | NB1-63BH3P16 | NB1-63CH3P16 | NB1-63DH3P16 |             |
| 20           | 3P   | NB1-63BH3P20 | NB1-63CH3P20 | NB1-63DH3P20 |             |
| 25           | 3P   | NB1-63BH3P25 | NB1-63CH3P25 | NB1-63DH3P25 |             |
| 32           | 3P   | NB1-63BH3P32 | NB1-63CH3P32 | NB1-63DH3P32 |             |
| 40           | 3P   | NB1-63BH3P40 | NB1-63CH3P40 | NB1-63DH3P40 |             |
| 50           | 3P   | NB1-63BH3P50 | NB1-63CH3P50 | NB1-63DH3P50 |             |
| 63           | 3P   | NB1-63BH3P63 | NB1-63CH3P63 | NB1-63DH3P63 |             |



NB1, 4P

| 4 POLE, 10KA |      |              |              |              | Boxed in 3s |
|--------------|------|--------------|--------------|--------------|-------------|
| In (A)       | Pole | PART NUMBERS |              |              |             |
|              |      | B CURVE      | C CURVE      | D CURVE      |             |
| 1            | 4P   | NB1-63BH4P01 | NB1-63CH4P01 | NB1-63DH4P01 |             |
| 2            | 4P   | NB1-63BH4P02 | NB1-63CH4P02 | NB1-63DH4P02 |             |
| 3            | 4P   | NB1-63BH4P03 | NB1-63CH4P03 | NB1-63DH4P03 |             |
| 4            | 4P   | NB1-63BH4P04 | NB1-63CH4P04 | NB1-63DH4P04 |             |
| 6            | 4P   | NB1-63BH4P06 | NB1-63CH4P06 | NB1-63DH4P06 |             |
| 10           | 4P   | NB1-63BH4P10 | NB1-63CH4P10 | NB1-63DH4P10 |             |
| 16           | 4P   | NB1-63BH4P16 | NB1-63CH4P16 | NB1-63DH4P16 |             |
| 20           | 4P   | NB1-63BH4P20 | NB1-63CH4P20 | NB1-63DH4P20 |             |
| 25           | 4P   | NB1-63BH4P25 | NB1-63CH4P25 | NB1-63DH4P25 |             |
| 32           | 4P   | NB1-63BH4P32 | NB1-63CH4P32 | NB1-63DH4P32 |             |
| 40           | 4P   | NB1-63BH4P40 | NB1-63CH4P40 | NB1-63DH4P40 |             |
| 50           | 4P   | NB1-63BH4P50 | NB1-63CH4P50 | NB1-63DH4P50 |             |
| 63           | 4P   | NB1-63BH4P63 | NB1-63CH4P63 | NB1-63DH4P63 |             |

## eBG Series, MCBs

Independently Tested and Approved by:



eBG, 1P

| 1 POLE, 6KA |            | Boxed in 12s |
|-------------|------------|--------------|
| B CURVE     | PART NO.   |              |
| 6A, 1P      | EBG-1P-B06 |              |
| 10A, 1P     | EBG-1P-B10 |              |
| 16A, 1P     | EBG-1P-B16 |              |
| 20A, 1P     | EBG-1P-B20 |              |
| 32A, 1P     | EBG-1P-B32 |              |
| 40A, 1P     | EBG-1P-B40 |              |

## NBH8 Series, 1P+N MCBS

Independently Tested and Approved by:



1 Pole: Boxed in 12s.

- Live and Neutral in an 18mm wide device
- B and C curves
- 1A – 40A



NBH8-40, 1P

| NBH8 1P+N MCBS |             | NBH8 1P+N MCBS |             |
|----------------|-------------|----------------|-------------|
| B CURVE        | PART NO.    | C CURVE        | PART NO.    |
| 1A             | NBH8-40-B01 | 1A             | NBH8-40-C01 |
| 2A             | NBH8-40-B02 | 2A             | NBH8-40-C02 |
| 3A             | NBH8-40-B03 | 3A             | NBH8-40-C03 |
| 4A             | NBH8-40-B04 | 4A             | NBH8-40-C04 |
| 6A             | NBH8-40-B06 | 6A             | NBH8-40-C06 |
| 10A            | NBH8-40-B10 | 10A            | NBH8-40-C10 |
| 16A            | NBH8-40-B16 | 16A            | NBH8-40-C16 |
| 20A            | NBH8-40-B20 | 20A            | NBH8-40-C20 |
| 25A            | NBH8-40-B25 | 25A            | NBH8-40-C25 |
| 32A            | NBH8-40-B32 | 32A            | NBH8-40-C32 |
| 40A            | NBH8-40-B40 | 40A            | NBH8-40-C40 |

## DZ158 Series, High Current MCBs

Independently Tested and Approved by:



- 1 Pole 27mm wide
- 2 Pole 54mm wide
- 3 Pole 81mm wide
- 4 Pole 108mm wide



DZ158, 1P



DZ158, 2P

### 1 POLE, HIGH CURRENT MCBs Boxed in 12s

| DESCRIPTION | PART NO.     |
|-------------|--------------|
| 63A, 1P     | DZ158-1-63A  |
| 80A, 1P     | DZ158-1-80A  |
| 100A, 1P    | DZ158-1-100A |
| 125A, 1P    | DZ158-1-125A |

### 2 POLE, HIGH CURRENT MCBs Boxed in 6s

| DESCRIPTION | PART NO.     |
|-------------|--------------|
| 63A, 2P     | DZ158-2-63A  |
| 80A, 2P     | DZ158-2-80A  |
| 100A, 2P    | DZ158-2-100A |
| 125A, 2P    | DZ158-2-125A |



DZ158, 3P



DZ158, 4P

### 3 POLE, HIGH CURRENT MCBs Boxed in 4s

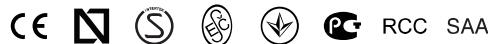
| DESCRIPTION | PART NO.     |
|-------------|--------------|
| 63A, 3P     | DZ158-3-63A  |
| 80A, 3P     | DZ158-3-80A  |
| 100A, 3P    | DZ158-3-100A |
| 125A, 3P    | DZ158-3-125A |

### 4 POLE, HIGH CURRENT MCBs Boxed in 3s

| DESCRIPTION | PART NO.     |
|-------------|--------------|
| 63A, 4P     | DZ158-4-63A  |
| 80A, 4P     | DZ158-4-80A  |
| 100A, 4P    | DZ158-4-100A |
| 125A, 4P    | DZ158-4-125A |

## NL1 Series, Residual Current Devices

Independently Tested and Approved by:



NL1-63-2P



NL1-63-4P

### RCD, 2 POLE, AC TYPE

| DESCRIPTION    | PART NO.         |
|----------------|------------------|
| 25A 30mA, 2P   | NL1-63-225/30    |
| 25A 100mA, 2P  | NL1-63-225/100   |
| 25A 300mA, 2P  | NL1-63-225/300   |
| 40A 30mA, 2P   | NL1-63-240/30    |
| 40A 100mA, 2P  | NL1-63-240/100   |
| 40A 300mA, 2P  | NL1-63-240/300   |
| 63A 30mA, 2P   | NL1-63-263/30    |
| 63A 100mA, 2P  | NL1-63-263/100   |
| 63A 300mA, 2P  | NL1-63-263/300   |
| 80A 30mA, 2P   | NL1-100-280/30   |
| 80A 100mA, 2P  | NL1-100-280/100  |
| 80A 300mA, 2P  | NL1-100-280/300  |
| 100A 30mA, 2P  | NL1-100-2100/30  |
| 100A 100mA, 2P | NL1-100-2100/100 |
| 100A 300mA, 2P | NL1-100-2100/300 |

### RCD, 4 POLE, AC TYPE

| DESCRIPTION    | PART NO.         |
|----------------|------------------|
| 25A 30mA, 4P   | NL1-63-425/30    |
| 25A 100mA, 4P  | NL1-63-425/100   |
| 25A 300mA, 4P  | NL1-63-425/300   |
| 40A 30mA, 4P   | NL1-63-440/30    |
| 40A 100mA, 4P  | NL1-63-440/100   |
| 40A 300mA, 4P  | NL1-63-440/300   |
| 63A 30mA, 4P   | NL1-63-463/30    |
| 63A 300mA, 4P  | NL1-63-463/300   |
| 80A 30mA, 4P   | NL1-63-480/30    |
| 80A 100mA, 4P  | NL1-63-480/100   |
| 80A 300mA, 4P  | NL1-63-480/300   |
| 100A 100mA, 4P | NL1-100-4100/100 |
| 100A 300mA, 4P | NL1-100-4100/300 |

### RCD, 2 POLE, A TYPE

| DESCRIPTION  | PART NO.        |
|--------------|-----------------|
| 63A 30mA, 2P | NL1-63-263/30-A |



NL1-100

- Chint 100mA Time Delayed RCDs are used where total RCD protection is required to supplement the system earthing and where local 30mA RCDs are used to provide additional protection against direct contact
- The 300mA Time Delayed RCD will discriminate against the standard 30mA RCD
- Independently tested and approved to EN61008-1

### TIME DELAY RCDs

| DESCRIPTION    | PART NO.           |
|----------------|--------------------|
| 80A 100mA, 2P  | NL1-100-280/100-S  |
| 80A 100mA, 4P  | NL1-100-480/100-S  |
| 100A 100mA, 2P | NL1-100-2100/100-S |

## RCBOs



NB3LEU



NB3LE

### NB3LEU, 10KA RCBO

| DESCRIPTION | B CURVE    | C CURVE    |
|-------------|------------|------------|
| 6A 30mA     | NB3LEU-B06 | NB3LEU-C06 |
| 10A 30mA    | NB3LEU-B10 | NB3LEU-C10 |
| 16A 30mA    | NB3LEU-B16 | NB3LEU-C16 |
| 20A 30mA    | NB3LEU-B20 | NB3LEU-C20 |
| 25A 30mA    | NB3LEU-B25 | NB3LEU-C25 |
| 32A 30mA    | NB3LEU-B32 | NB3LEU-C32 |
| 40A 30mA    | NB3LEU-B40 | NB3LEU-C40 |

### NB3LE, 6KA RCBO

| DESCRIPTION | B CURVE   | C CURVE   |
|-------------|-----------|-----------|
| 6A 30mA     | NB3LE-B06 | NB3LE-C06 |
| 10A 30mA    | NB3LE-B10 | NB3LE-C10 |
| 16A 30mA    | NB3LE-B16 | NB3LE-C16 |
| 20A 30mA    | NB3LE-B20 | NB3LE-C20 |
| 25A 30mA    | NB3LE-B25 | NB3LE-C25 |
| 32A 30mA    | NB3LE-B32 | NB3LE-C32 |



NB310L



NB2LE

### NB310L, 2P (36mm wide) RCBO

| DESCRIPTION | B CURVE    | C CURVE    |
|-------------|------------|------------|
| 6A 30mA     | NB310L-B06 | NB310L-C06 |
| 10A 30mA    | NB310L-B10 | NB310L-C10 |
| 16A 30mA    | NB310L-B16 | NB310L-C16 |
| 20A 30mA    | NB310L-B20 | NB310L-C20 |
| 25A 30mA    | NB310L-B25 | NB310L-C25 |
| 32A 30mA    | NB310L-B32 | NB310L-C32 |

### NB2LE, 1P+N (18mm wide) RCBO

| DESCRIPTION | B CURVE   | C CURVE   |
|-------------|-----------|-----------|
| 6A 30mA     | NB2LE-B06 | NB2LE-C06 |
| 10A 30mA    | NB2LE-B10 | NB2LE-C10 |
| 16A 30mA    | NB2LE-B16 | NB2LE-C16 |
| 20A 30mA    | NB2LE-B20 | NB2LE-C20 |
| 25A 30mA    | NB2LE-B25 | NB2LE-C25 |

## RCBOs

Independently Tested and Approved by:



NB1L 1P+N



NB1L-4P-C20

### NB1L, 1P+N (36mm wide) RCBO

| DESCRIPTION | B CURVE  | C CURVE  |
|-------------|----------|----------|
| 6A 30mA     | NB1L-B06 | NB1L-C06 |
| 10A 30mA    | NB1L-B10 | NB1L-C10 |
| 16A 30mA    | NB1L-B16 | NB1L-C16 |
| 20A 30mA    | NB1L-B20 | NB1L-C20 |
| 25A 30mA    | NB1L-B25 | NB1L-C25 |
| 32A 30mA    | NB1L-B32 | NB1L-C32 |
| 40A 30mA    | NB1L-B40 | NB1L-C40 |

### NB1L, 3P+N (72mm wide) RCBO

| DESCRIPTION | B CURVE     | C CURVE     |
|-------------|-------------|-------------|
| 6A 30mA     | NB1L-4P-B06 | NB1L-4P-C06 |
| 10A 30mA    | NB1L-4P-B10 | NB1L-4P-C10 |
| 16A 30mA    | NB1L-4P-B16 | NB1L-4P-C16 |
| 20A 30mA    | NB1L-4P-B20 | NB1L-4P-C20 |
| 25A 30mA    | NB1L-4P-B25 | NB1L-4P-C25 |
| 32A 30mA    | NB1L-4P-B32 | NB1L-4P-C32 |
| 40A 30mA    | NB1L-4P-B40 | NB1L-4P-C40 |

### NB1L, 2 POLE (54mm wide) RCBO

| DESCRIPTION | B CURVE     | C CURVE     |
|-------------|-------------|-------------|
| 32A 30mA    | NB1L-2P-B32 | NB1L-2P-C32 |
| 40A 30mA    | NB1L-2P-B40 | NB1L-2P-C40 |

## NH4 Isolators

Independently Tested and Approved by:



- 1 Pole: Boxed in 12s.
- 2 Pole: Boxed in 6s.
- 3 Pole: Boxed in 4s.
- 4 Pole: Boxed in 3s.



NH4-80208



NH4-80408

### NH4 ISOLATORS

| DESCRIPTION | PART NO.  |
|-------------|-----------|
| 100A, 1P    | NH4-80108 |
| 100A, 2P    | NH4-80208 |
| 100A, 3P    | NH4-80308 |
| 100A, 4P    | NH4-80408 |
| 125A, 1P    | NH4-90108 |
| 125A, 2P    | NH4-90208 |
| 125A, 3P    | NH4-90308 |
| 125A, 4P    | NH4-90408 |

## Enclosed Rotary Isolators



SRS-432



SDS-63

### ENCLOSED ROTARY ISOLATORS

| DESCRIPTION  | PART NO. |
|--------------|----------|
| 20A, 3 Pole  | SRS-320  |
| 32A, 3 Pole  | SRS-332  |
| 63A, 3 Pole  | SRS-363  |
| 100A, 3 Pole | SRS-3100 |
| 20A, 4 Pole  | SRS-420  |
| 32A, 4 Pole  | SRS-432  |
| 63A, 4 Pole  | SRS-463  |
| 100A, 4 Pole | SRS-4100 |

- 3 or 4 switched Poles
- IP65
- 32A, 3 and 4 Pole
- 63A, 3 and 4 Pole
- 100A, 2 and 4 Pole
- Up to 3 "Lock Off Padlocks" can be fitted to any device

### DC ISOLATOR IP65

| DESCRIPTION           | PART NO. |
|-----------------------|----------|
| 16A, DC Isolator IP65 | SDS-16   |
| 25A, DC Isolator IP65 | SDS-25   |
| 63A, DC Isolator IP65 | SDS-63   |

## MCB Accessories

CE



XF9



XF9J



S9



V9

### AUXILIARIES FOR NB1, NBH8, NB3LEU, NB3LE & NB1L

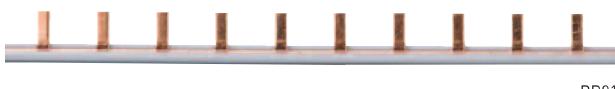
| DESCRIPTION                 | PART NO. |
|-----------------------------|----------|
| Auxiliary Contacts          | XF9      |
| C/O Alarm Auxiliary Contact | XF9J     |
| 230V Shunt Trip             | S9       |
| 230V Under Voltage Release  | V9       |
| MCB Lock                    | CB14     |



AX1

### AUXILIARIES FOR HIGH CURRENT MCBs

| DESCRIPTION                          | PART NO. |
|--------------------------------------|----------|
| 1 NO + 1 NC Aux. Switch (for DZ158s) | AX-1     |



BB01



BB01/F

### BUS BAR (per 1 metre length)

| DESCRIPTION                 | PART NO. |
|-----------------------------|----------|
| 1 Pole MCB Pin Bus Bar      | BB01     |
| 1 Pole MCB Fork Bus Bar     | BB01/F   |
| 2 Pole MCB Pin Bus Bar      | BB02     |
| 2 Pole MCB Fork Bus Bar     | BB02/F   |
| 3 Pole MCB Pin Bus Bar      | BB03     |
| 3 Pole MCB Fork Bus Bar     | BB03/F   |
| End Caps to suit BB01       | BB01/FE  |
| End Caps to suit BB02       | BB02/FE  |
| End Caps to suit BB03       | BB03/FE  |
| 1 Pole Pin Bus Bar for NBH8 | BB01-63  |



DR1

### 35mm TOP HAT SECTION DIN RAIL

| DESCRIPTION        | PART NO. |
|--------------------|----------|
| 1m length Din Rail | DR1      |
| 2m length Din Rail | DR2      |

- Available in 1m and 2m stock lengths with 6mm wide centre slots

## 2 Gang RCD Sockets

CE



NE2RCD-13A



NE2RCD-13A(M)

### 2 GANG RCD SOCKET – PLASTIC

| DESCRIPTION               | PART NO.   |
|---------------------------|------------|
| 2 Gang RCD Plastic Socket | NE2RCD-13A |

### 2 GANG RCD SOCKET – METAL

| DESCRIPTION             | PART NO.      |
|-------------------------|---------------|
| 2 Gang RCD Metal Socket | NE2RCD-13A(M) |

## NCH8 Modular AC Contactors

CE



NCH8-20



NCH8-4P-63

- 2 and 4 NO main poles
- 230V AC coils
- 20A and 63A
- Quiet operation

### 2 POLE, MODULAR AC CONTACTORS

| DESCRIPTION                   | PART NO.   |
|-------------------------------|------------|
| 2 Pole 20A 2 NO, 230V AC Coil | NCH8-20    |
| 2 Pole 20A 2 NC, 230V AC Coil | NCH8-20-02 |

### 4 POLE, MODULAR AC CONTACTORS

| DESCRIPTION                   | PART NO.   |
|-------------------------------|------------|
| 4 Pole 40A 4 NO, 230V AC Coil | NCH8-4P-40 |
| 4 Pole 63A 4 NC, 230V AC Coil | NCH8-4P-63 |

## Bell Transformer

CE



SBT-16

- 230V, 50Hz input
- 6V, 9V, 12V, 24V output

### BELL TRANSFORMER

| DESCRIPTION           | PART NO. |
|-----------------------|----------|
| Din Rail Mounted Bell | SBT-16   |
| Transformer           |          |

## Surge Arrestor

CE



NU6-II-25KA-1P



NU6-II-25KA-2P



NU6-II-25KA-3P



NU6-II-25KA-4P

### SURGE ARRESTOR

| DESCRIPTION                 | PART NO.       |
|-----------------------------|----------------|
| 25KA, 1 Pole Surge Arrestor | NU6-II-25KA-1P |
| 25KA, 2 Pole Surge Arrestor | NU6-II-25KA-2P |
| 25KA, 3 Pole Surge Arrestor | NU6-II-25KA-3P |
| 25KA, 4 Pole Surge Arrestor | NU6-II-25KA-4P |

## SDTS Digital Programmable Timer

CE



SDTS-15



- 7 day, 24 hr Digital Timer
- 16A Ith (8)A 220 – 240V
- 2000W lamp load
- SPDT switch
- DIN Rail mounted
- Lithium back up battery
- Maximum width 36mm

### PROGRAMMABLE TIMER

| DESCRIPTION | PART NO. |
|-------------|----------|
| SPDT Timer  | SDTS-15  |

## NTE8 Electronic Timer

CE



### NTE8 ELECTRONIC TIMER

| DESCRIPTION                          | PART NO.  |
|--------------------------------------|-----------|
| 1 NO Contact, 0.1-10 Secs. OFF DELAY | NTE8-10A  |
| 1 NO Contact, 10-120 Secs. OFF DELAY | NTE8-120A |
| 1 NO Contact, 30-480 Secs. OFF DELAY | NTE8-480A |
| 1 NO Contact, 0.1-10 Secs. ON DELAY  | NTE8-10B  |
| 1 NO Contact, 10-120 Secs. ON DELAY  | NTE8-120B |
| 1 NO Contact, 30-480 Secs. ON DELAY  | NTE8-480B |

## NJS3 Staircase Timer

CE



### NJS3 STAIRCASE TIMER

| DESCRIPTION                | PART NO.    |
|----------------------------|-------------|
| AC 230V 30 Secs - 20 Mins, | NJS3-AC230V |
| INTERVAL DELAY             |             |

**NJMC1 Series, Impulse Relay**

CE



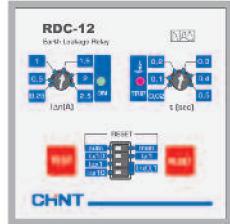
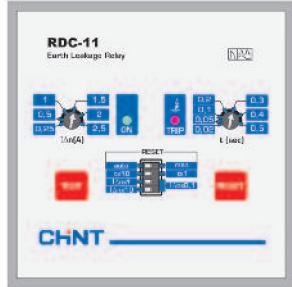
NJMC1-16/1P

- 16A
- 32A
- AC 230V
- DC 24V
- Ideal for halogen lighting

| <b>NJMC1 SERIES IMPULSE RELAY</b> |                    |
|-----------------------------------|--------------------|
| <b>DESCRIPTION</b>                | <b>PART NO.</b>    |
| 16A, 1 Pole, AC 230V              | NJMC1-16/1P-AC230V |
| 16A, 2 Pole, AC 230V              | NJMC1-16/2P-AC230V |
| 16A, 3 Pole, AC 230V              | NJMC1-16/3P-AC230V |
| 16A, 4 Pole, AC 230V              | NJMC1-16/4P-AC230V |
| 32A, 1 Pole, AC 230V              | NJMC1-32/1P-AC230V |
| 32A, 2 Pole, AC 230V              | NJMC1-32/2P-AC230V |
| 32A, 3 Pole, AC 230V              | NJMC1-32/3P-AC230V |
| 32A, 4 Pole, AC 230V              | NJMC1-32/4P-AC230V |
| 16A, 1 Pole, DC 24V               | NJMC1-16/1P-DC24V  |
| 16A, 2 Pole, DC 24V               | NJMC1-16/2P-DC24V  |
| 16A, 3 Pole, DC 24V               | NJMC1-16/3P-DC24V  |
| 16A, 4 Pole, DC 24V               | NJMC1-16/4P-DC24V  |
| 32A, 1 Pole, DC 24V               | NJMC1-32/1P-DC24V  |
| 32A, 2 Pole, DC 24V               | NJMC1-32/2P-DC24V  |
| 32A, 3 Pole, DC 24V               | NJMC1-32/3P-DC24V  |
| 32A, 4 Pole, DC 24V               | NJMC1-32/4P-DC24V  |

## RDC Earth Leakage Relay

CE



### RCD-02 features:

- Sensibility: from 0.025A to 25A, adjustable
- Trip delay: 0.02 sec., to 5 sec., adjustable
- Rated voltage 50/60Hz: 110VAC/VDC, 230/400VAC
- LED indications: ON and tripped
- Output relay: Normally open (NO)
- Output contacts: 1 NO/NC

### EARTH LEAKAGE RELAY

| DESCRIPTION | PART NO. |
|-------------|----------|
|-------------|----------|

DIN Rail mounted 3 modules, RDC-02

Power supply:

110-230-400 VAC or

24...48 VAC/DC

Flush mounted 96 x 96mm, RDC-11

Power supply:

110-230-400 VAC or

24...48 VAC/DC

Flush mounted 72 x 72 mm, RDC-12

Power supply:

110-230-400 VAC or

24...48 VAC/DC

## TTC Transformers

CE



### TTC TRANSFORMERS

| DESCRIPTION | PART NO. |
|-------------|----------|
|-------------|----------|

Transformer – 3 modules, TTC-028D

28mm diameter

Transformer (35mm) TTC-035

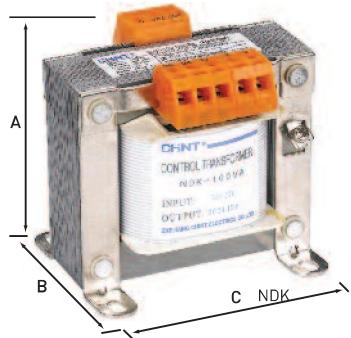
Transformer (60mm) TTC-060

Transformer (80mm) TTC-080

## NDK Control Circuit Transformers

Independently Tested and Approved to IEC/ EN61558

CE



- Designed to offer maximum voltage ratings from minimum frame sizes, the NDK range is ideally suited to stockists allowing them to hold minimum stocks whilst still covering the majority of popular applications.
- Particularly aimed at Control Panel manufacturers, the NDK series is stocked in the UK in VA sizes from 50VA – 1000VA, other sizes up to a maximum of 5000VA are available to special order.

### NDK CONTROL CIRCUIT TRANSFORMERS

| CAP.   | DESCRIPTION             | PART NO. |
|--------|-------------------------|----------|
| 50VA   |                         | NDK-50   |
| 100VA  | INPUT:<br>240V/415V     | NDK-100  |
| 150VA  |                         | NDK-150  |
| 200VA  | OUTPUT:<br>12V/24V      | NDK-200  |
| 250VA  | 48V/110V                | NDK-250  |
| 300VA  | 240V                    | NDK-300  |
| 400VA  |                         | NDK-400  |
| 500VA  | FREQUENCY:<br>50Hz/60Hz | NDK-500  |
| 1000VA |                         | NDK-1000 |

For dimensions please see pages 67 & 68

## YBLX Limit Switches

Designed to the requirements of IEC 60947-5-1

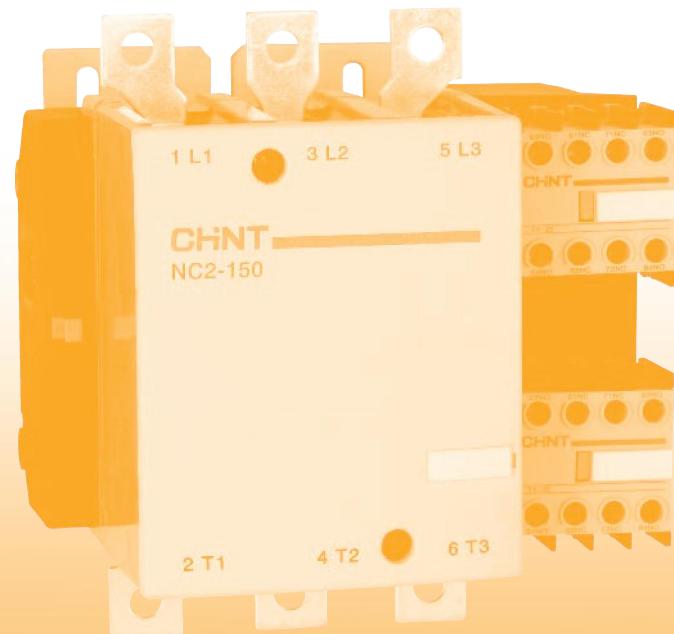
CE

- SPDT switch contacts
- Head can be rotated
- 1 NO + 1 NC, 5A Ith Contacts
- Rugged die cast construction
- Various operators



### YBLX LIMIT SWITCHES

| DESCRIPTION  | PART NO.       |
|--------------|----------------|
| Limit Switch | YBLX-ME/8104   |
| Limit Switch | YBLX-CK/J10541 |
| Limit Switch | YBLX-CK/J10559 |
| Limit Switch | YBLX-CK/M115   |
| Limit Switch | YBLX-CK/J10511 |
| Limit Switch | YBLX-CK/J167   |
| Limit Switch | YBLX-CK/J161   |
| Limit Switch | YBLX-JW2-11Z/3 |
| Limit Switch | YBLX-K1/41     |
| Limit Switch | YBLX-P1/120/ID |



# MOTOR CONTROL GEAR COMPONENTS

## AC Coil Contactors, 3 & 4 Main Poles

Independently Tested and Approved by:



### To Order Contactors:

Please specify Part Number plus Coil Voltage:

24VAC, 48VAC, 110VAC, 230VAC, 415VAC



NC6

### NC6 Series, 3P & 4P

| DESCRIPTION            | AC1 | AC3 | KW   | PART NO. |
|------------------------|-----|-----|------|----------|
| 3 NO Main + 1NO Aux    | 20A | 9A  | 4.00 | NC6-0910 |
| 3 NO Main + 1NC Aux    | 20A | 9A  | 4.00 | NC6-0901 |
| 4 NO Main Poles        | 20A | 9A  | 4.00 | NC6-0904 |
| 2 NO + 2 NC Main Poles | 20A | 9A  | 4.00 | NC6-0908 |



NC1

### NC1 Series, 3P

| DESCRIPTION                                       | AC1  | AC3 | KW    | PART NO. |
|---|------|-----|-------|----------|
| <b>3 MAIN &amp; 1 NO AUXILIARY CONTACT</b>        |      |     |       |          |
| 3 Main + 1 NO Aux                                 | 20A  | 9A  | 4.00  | NC1-0910 |
| 3 Main + 1 NO Aux                                 | 20A  | 12A | 5.50  | NC1-1210 |
| 3 Main + 1 NO Aux                                 | 32A  | 18A | 7.50  | NC1-1810 |
| 3 Main + 1 NO Aux                                 | 40A  | 25A | 11.00 | NC1-2510 |
| 3 Main + 1 NO Aux                                 | 50A  | 32A | 15.00 | NC1-3210 |
| <b>3 MAIN &amp; 1 NC AUXILIARY CONTACT</b>        |      |     |       |          |
| 3 Main + 1 NC Aux                                 | 20A  | 9A  | 4.00  | NC1-0901 |
| 3 Main + 1 NC Aux                                 | 20A  | 12A | 5.50  | NC1-1201 |
| 3 Main + 1 NC Aux                                 | 32A  | 18A | 7.50  | NC1-1801 |
| 3 Main + 1 NC Aux                                 | 40A  | 25A | 11.00 | NC1-2501 |
| 3 Main + 1 NC Aux                                 | 50A  | 32A | 15.00 | NC1-3201 |
| <b>3 MAIN &amp; 1 NO + 1 NC AUXILIARY CONTACT</b> |      |     |       |          |
| 3 Main + 1 NO + 1 NC Aux                          | 60A  | 40A | 18.50 | NC1-4011 |
| 3 Main + 1 NO + 1 NC Aux                          | 80A  | 50A | 22.00 | NC1-5011 |
| 3 Main + 1 NO + 1 NC Aux                          | 110A | 65A | 30.00 | NC1-6511 |
| 3 Main + 1 NO + 1 NC Aux                          | 110A | 85A | 37.00 | NC1-8011 |
| 3 Main + 1 NO + 1 NC Aux                          | 110A | 95A | 45.00 | NC1-9511 |

## AC Coil Contactors, 3 & 4 Main Poles



NC1

| NC1 Series, 4P                        |      |     |       |          |
|---------------------------------------|------|-----|-------|----------|
| DESCRIPTION                           | AC1  | AC3 | KW    | PART NO. |
| <b>4 NO MAIN POLES</b>                |      |     |       |          |
| 4 NO Main Poles                       | 20A  | 9A  | 4.00  | NC1-0904 |
| 4 NO Main Poles                       | 20A  | 12A | 5.50  | NC1-1204 |
| 4 NO Main Poles                       | 40A  | 25A | 11.00 | NC1-2504 |
| 4 NO Main Poles                       | 60A  | 40A | 18.50 | NC1-4004 |
| 4 NO Main Poles                       | 80A  | 50A | 22.00 | NC1-5004 |
| 4 NO Main Poles                       | 80A  | 65A | 30.00 | NC1-6504 |
| 4 NO Main Poles                       | 110A | 80A | 37.00 | NC1-8004 |
| 4 NO Main Poles                       | 110A | 95A | 45.00 | NC1-9504 |
| <b>4 MAIN POLES (2 NO &amp; 2 NC)</b> |      |     |       |          |
| 2 NO + 2 NC Main Poles                | 20A  | 9A  | 4.00  | NC1-0908 |
| 2 NO + 2 NC Main Poles                | 20A  | 12A | 5.50  | NC1-1208 |
| 2 NO + 2 NC Main Poles                | 40A  | 25A | 11.00 | NC1-2508 |
| 2 NO + 2 NC Main Poles                | 60A  | 40A | 18.50 | NC1-4008 |
| 2 NO + 2 NC Main Poles                | 80A  | 50A | 22.00 | NC1-5008 |
| 2 NO + 2 NC Main Poles                | 80A  | 65A | 30.00 | NC1-6508 |
| 2 NO + 2 NC Main Poles                | 110A | 80A | 37.00 | NC1-8008 |
| 2 NO + 2 NC Main Poles                | 110A | 95A | 45.00 | NC1-9508 |



NC2

| NC2 Series, 3P & 4P    |      |      |       |           |
|------------------------|------|------|-------|-----------|
| DESCRIPTION            | AC1  | AC3  | KW    | PART NO.  |
| <b>3 NO MAIN POLES</b> |      |      |       |           |
| 3 NO Main Poles        | 200A | 115A | 55KW  | NC2-115   |
| 3 NO Main Poles        | 200A | 150A | 75KW  | NC2-150   |
| 3 NO Main Poles        | 275A | 185A | 90KW  | NC2-185   |
| 3 NO Main Poles        | 275A | 225A | 110KW | NC2-225   |
| 3 NO Main Poles        | 315A | 265A | 132KW | NC2-265   |
| 3 NO Main Poles        | 380A | 330A | 160KW | NC2-330   |
| 3 NO Main Poles        | 450A | 400A | 200KW | NC2-400   |
| 3 NO Main Poles        | 630A | 500A | 250KW | NC2-500   |
| 3 NO Main Poles        | 800A | 630A | 335KW | NC2-630   |
| <b>4 NO MAIN POLES</b> |      |      |       |           |
| 4 NO Main Poles        | 200A | 115A | 55KW  | NC2-11504 |
| 4 NO Main Poles        | 200A | 150A | 75KW  | NC2-15004 |
| 4 NO Main Poles        | 275A | 185A | 90KW  | NC2-18504 |
| 4 NO Main Poles        | 275A | 225A | 110KW | NC2-22504 |
| 4 NO Main Poles        | 315A | 265A | 132KW | NC2-26504 |
| 4 NO Main Poles        | 380A | 330A | 160KW | NC2-33004 |
| 4 NO Main Poles        | 450A | 400A | 200KW | NC2-40004 |
| 4 NO Main Poles        | 630A | 500A | 250KW | NC2-50004 |
| 4 NO Main Poles        | 800A | 630A | 335KW | NC2-63004 |

## DC Coil Contactors

CE



NC1-0910Z

### DC COIL CONTACTORS

| DESCRIPTION               | ELECT. RATING    | PART NO.  |
|---------------------------|------------------|-----------|
| 3 Main + 1 NO Aux         | 20A AC1, 9A AC3  | NC1-0910Z |
| 3 Main + 1 NC Aux         | 20A AC1, 9A AC3  | NC1-0901Z |
| 3 Main + 1 NO Aux         | 20A AC1, 12A AC3 | NC1-1210Z |
| 3 Main + 1 NC Aux         | 20A AC1, 12A AC3 | NC1-1201Z |
| 3 Main + 1 NO Aux         | 32A AC1, 18A AC3 | NC1-1810Z |
| 3 Main + 1 NC Aux         | 32A AC1, 18A AC3 | NC1-1801Z |
| 3 Main + 1 NO Aux         | 40A AC1, 25A AC3 | NC1-2510Z |
| 3 Main + 1 NC Aux         | 40A AC1, 25A AC3 | NC1-2501Z |
| 3 Main + 1 NO Aux         | 50A AC1, 32A AC3 | NC1-3210Z |
| 3 Main + 1 NC Aux         | 50A AC1, 32A AC3 | NC1-3201Z |
| 3 Main + 1 NO + 1 NC Auxs | 60A AC1, 40A AC3 | NC1-4011Z |
| 3 Main + 1 NO + 1 NC Auxs | 80A AC1, 50A AC3 | NC1-5011Z |
| 3 Main + 1 NO + 1 NC Auxs | 80A AC1, 65A AC3 | NC1-6511Z |
| 3 Main + 1 NO + 1 NC Auxs | 95A AC1, 80A AC3 | NC1-8011Z |
| 3 Main + 1 NO + 1 NC Auxs | 95A AC1, 95A AC3 | NC1-9511Z |

## Power Factor Correction Contactors

CE



CJ19

### POWER FACTOR CORRECTION CONTACTORS

| DESCRIPTION              | A   | KVAR @ 230V @415V | PART NO. |           |
|--------------------------|-----|-------------------|----------|-----------|
| 3 Main + 1 NO + 1 NC Aux | 17A | 6                 | 12       | CJ19-2511 |
| 3 Main + 1 NO + 1 NC Aux | 23A | 9                 | 18       | CJ19-3211 |
| 3 Main + 1 NO + 1 NC Aux | 29A | 10                | 20       | CJ19-4311 |
| 3 Main + 1 NO + 1 NC Aux | 43A | 15                | 30       | CJ19-6311 |
| 3 Main + 1 NO + 1 NC Aux | 63A | 22                | 40       | CJ19-9511 |

# Thermal Overload Relays

CE



NR2-11.5

## THERMAL OVERLOAD RELAYS FOR NC6 SERIES

| DESCRIPTION    | PART NO.       |
|----------------|----------------|
| 0.10A - 0.16A  | NR2-11.5/0.16  |
| 0.16A - 0.25A  | NR2-11.5/0.25  |
| 0.25A - 0.40A  | NR2-11.5/0.40  |
| 0.40A - 0.63A  | NR2-11.5/0.63  |
| 0.63A - 1.00A  | NR2-11.5/1.00  |
| 1.00A - 1.60A  | NR2-11.5/1.60  |
| 1.25A - 2.00A  | NR2-11.5/2.00  |
| 1.60A - 2.50A  | NR2-11.5/2.50  |
| 2.50A - 4.00A  | NR2-11.5/4.00  |
| 4.00A - 6.00A  | NR2-11.5/6.00  |
| 5.50A - 8.00A  | NR2-11.5/8.00  |
| 9.00A - 13.00A | NR2-11.5/13.00 |



NR2-25

## THERMAL OVERLOAD RELAYS FOR NC1 SERIES

| DESCRIPTION     | FRAME SIZE | PART NO.  |
|-----------------|------------|-----------|
| 0.10A - 0.16A   | NR2-25     | NR2-0.16  |
| 0.16A - 0.25A   | NR2-25     | NR2-0.25  |
| 0.25A - 0.40A   | NR2-25     | NR2-0.40  |
| 0.50A - 0.63A   | NR2-25     | NR2-0.63  |
| 0.63A - 1.00A   | NR2-25     | NR2-1.00  |
| 1.00A - 1.60A   | NR2-25     | NR2-1.60  |
| 1.25A - 2.00A   | NR2-25     | NR2-2.00  |
| 1.60A - 2.50A   | NR2-25     | NR2-2.50  |
| 2.50A - 4.00A   | NR2-25     | NR2-4.00  |
| 4.00A - 6.00A   | NR2-25     | NR2-6.00  |
| 5.50A - 8.00A   | NR2-25     | NR2-8.00  |
| 7.00A - 10.00A  | NR2-25     | NR2-10.00 |
| 9.00A - 13.00A  | NR2-25     | NR2-13.00 |
| 12.00A - 18.00A | NR2-25     | NR2-18.00 |
| 17.00A - 25.00A | NR2-25     | NR2-25.00 |
| 25.00A - 32.00A | NR2-36     | NR2-32.00 |
| 28.00A - 36.00A | NR2-36     | NR2-36.00 |
| 30.00A - 40.00A | NR2-93     | NR2-40.00 |
| 37.00A - 50.00A | NR2-93     | NR2-50.00 |
| 48.00A - 65.00A | NR2-93     | NR2-65.00 |
| 55.00A - 70.00A | NR2-93     | NR2-70.00 |
| 63.00A - 80.00A | NR2-93     | NR2-80.00 |
| 80.00A - 93.00A | NR2-93     | NR2-93.00 |



NR2-36



NR2-93

## Contactor Accessories

CE



NR2-630



NR2-D



NC1-F5

### THERMAL OVERLOAD RELAYS FOR NC2 SERIES

| DESCRIPTION | PART NO.     |
|-------------|--------------|
| 80A - 125A  | NR2-200G-125 |
| 100A - 160A | NR2-200G-160 |
| 125A - 200A | NR2-200G-200 |
| 160A - 250A | NR2-630G-250 |
| 200A - 315A | NR2-630G-315 |
| 250A - 400A | NR2-630G-400 |
| 315A - 500A | NR2-630G-500 |
| 400A - 630A | NR2-630G-630 |

### OVERLOAD MOUNTING BRACKETS

| DESCRIPTION                    | PART NO. |
|--------------------------------|----------|
| To Fit NR2-11.5                | NR2-D03  |
| To Fit NR2-25, 0.10A - 25.00A  | NR2-D13  |
| To Fit NR2-36, 32.00A - 36.00A | NR2-D23  |
| To Fit NR2-93, 40.00A - 93.00A | NR2-D33  |

### PNEUMATIC TIMERS

| DESCRIPTION          | PART NO.  |
|----------------------|-----------|
| 0.1s - 30s ON Delay  | NC1-F5-T2 |
| 10s - 180s ON Delay  | NC1-F5-T4 |
| 0.1s - 30s OFF Delay | NC1-F5-D2 |
| 10s - 180s OFF Delay | NC1-F5-D4 |

### MECHANICAL INTERLOCKS

| DESCRIPTION                    | PART NO.     |
|--------------------------------|--------------|
| To Fit NC1-09 to NC1-32, 3P/4P | NC1M09-32    |
| To Fit NC1-40 to NC1-65, 3P/4P | NC1M40-65    |
| To Fit NC1-80 to NC1-95, 3P    | NC1M80-95    |
| To Fit NC1-80 to NC1-95, 4P    | NC1M80-95-4P |
| To Fit NC2-115 to NC2-150      | NC2IL-01     |
| To Fit NC2-185 to NC2-225      | NC2IL-02     |
| To Fit NC2-265 to NC2-500      | NC2IL-03     |
| To Fit NC2-630                 | NC2IL-04     |

## Contactor Accessories

CE



NC1-32SC



NC2-FL

### AC SPARE COILS FOR NC1 & NC2 \*SPECIFY VOLTAGE\*

| DESCRIPTION                 | PART NO.  |
|-----------------------------|-----------|
| Coils for NC1-09 - NC1-18   | NC1-12SC* |
| Coils for NC1-25 - NC1-32   | NC1-32SC* |
| Coils for NC1-40 - NC1-65   | NC1-40SC* |
| Coils for NC1-80 - NC1-95   | NC1-80SC* |
| Coils for NC2-115 - NC2-150 | NC2-FF*   |
| Coils for NC2-185 - NC2-225 | NC2-FG*   |
| Coils for NC2-265           | NC2-FH*   |
| Coils for NC2-330           | NC2-FI*   |
| Coils for NC2-400           | NC2-FJ*   |
| Coils for NC2-500           | NC2-FK*   |
| Coils for NC2-600           | NC2-FL*   |



NCF6-22

### NC6 HEAD MOUNT AUXILIARY CONTACT BLOCKS

| DESCRIPTION            | PART NO. |
|------------------------|----------|
| 2 NC Aux Block         | NCF6-02  |
| 2 NO Aux Block         | NCF6-20  |
| 1 NO + 1 NC Aux Block  | NCF6-11  |
| 4 NC Aux Block         | NCF6-04  |
| 4 NO Aux Block         | NCF6-40  |
| 1 NO + 3 NC Aux Block  | NCF6-13  |
| 3 NO + 1 NC Aux Block  | NCF6-31  |
| 2 NO + 2 NC Aux Blocks | NCF6-22  |



NC1-F402



NC1-F440

### NC1 & NC2 HEAD MOUNT AUXILIARY CONTACT BLOCKS

| DESCRIPTION            | PART NO. |
|------------------------|----------|
| 2 NC Aux Block         | NC1-F402 |
| 2 NO Aux Blocks        | NC1-F420 |
| 1 NO + 1 NC Aux Blocks | NC1-F411 |
| 2 NO + 2 NC Aux Blocks | NC1-F422 |
| 4 NC Aux Blocks        | NC1-F404 |
| 4 NO Aux Blocks        | NC1-F440 |
| 1 NO + 3 NC Aux Blocks | NC1-F413 |
| 2 NO + 2 NC Aux Blocks | NC1-F431 |

## Contactor Accessories

CE



NC2-TC

### TERMINAL COVER FOR NC2

| DESCRIPTION                                 | PART NO.   |
|---|------------|
| Terminal Cover to fit NC2-115               | NC2-115-TC |
| Terminal Cover to fit NC2-150<br>to NC2-185 | NC2-185-TC |
| Terminal Cover to fit NC2-225<br>to NC2-500 | NC2-500-TC |
| Terminal Cover to fit NC2-630               | NC2-630-TC |



NCF1-11C

### NC1 AUXILIARY CONTACT BLOCK

| DESCRIPTION                | PART NO. |
|----------------------------|----------|
| 1 NO + 1 NC Side Mount Aux | NCF1-11C |

### DC SPARE COILS FOR NC1 \*SPECIFY VOLTAGE\*

| DESCRIPTION               | PART NO.   |
|---------------------------|------------|
| DC Coil for NC1-09Z - 18Z | NC1-12SC-Z |
| DC Coil for NC1-25Z - 32Z | NC1-32SC-Z |
| DC Coil for NC1-40Z - 95Z | NC1-40SC-Z |

## Direct On Line Starters

CE



NQ3

### IP55 DIRECT ON LINE STARTERS

| DESCRIPTION               | PART NO.    |
|---------------------------|-------------|
| 5.5KW Starter - 110V Coil | NQ3-5.5/110 |
| 5.5KW Starter - 230V Coil | NQ3-5.5/230 |
| 5.5KW Starter - 415V Coil | NQ3-5.5/415 |
| 11KW Starter - 110V Coil  | NQ3-11P/110 |
| 11KW Starter - 230V Coil  | NQ3-11P/230 |
| 11KW Starter - 415V Coil  | NQ3-11P/415 |

- Metal base
- Plastic cover
- IP55

## Manual Motor Starters

CE



NS2-25



NS2 IP65 Enclosure

### MANUAL MOTOR STARTERS

| DESCRIPTION                   | PART NO.    |
|-------------------------------|-------------|
| 0.10 - 0.16A                  | NS2-25-0.16 |
| 0.16A - 0.25A                 | NS2-25-0.25 |
| 0.25A - 0.40A                 | NS2-25-0.40 |
| 0.50A - 0.63A                 | NS2-25-0.63 |
| 0.63A - 1.00A                 | NS2-25-1.00 |
| 1.00A - 1.60A                 | NS2-25-1.60 |
| 1.60A - 2.50A                 | NS2-25-2.50 |
| 2.50A - 4.00A                 | NS2-25-4.00 |
| 4.00A - 6.30A                 | NS2-25-6.30 |
| 6.30A - 10.00A                | NS2-25-10   |
| 9.00A - 14.00A                | NS2-25-14   |
| 12.00A - 18.00A               | NS2-25-18   |
| 17.00A - 23.00A               | NS2-25-23   |
| 20.00A - 25.00A               | NS2-25-25   |
| 25.00A - 40.00A               | NS2-80B-40  |
| 40.00A - 63.00A               | NS2-80B-63  |
| 56.00A - 80.00A               | NS2-80B-80  |
| IP65 Enclosure for NS2-25     | NS2-25-MC   |
| IP65 Enclosure with Emergency | NS2-25-MC01 |
| Push Button for NS2-25        |             |



NS2-25-MC01

### MANUAL MOTOR STARTER ACCESSORIES

| DESCRIPTION                | PART NO.      |
|----------------------------|---------------|
| 1 NO + 1 NC Head Mount Aux | NS2-25-AE11   |
| 2 NO Head Mount Aux        | NS2-25-AE20   |
| 1 NO + 1 NC Side Mount Aux | NS2-25-AU11   |
| 2 NO Side Mount Auxs       | NS2-25-AE20   |
| 1 NC + 1 NC Fault/Signal   | NS2-25-FA0101 |
| 1 NC + 1 NO Fault/Signal   | NS2-25-FA0110 |
| 1 NO + 1 NC Fault/Signal   | NS2-25-FA1001 |
| 1 NO + 1 NO Fault/Signal   | NS2-25-FA1010 |
| 110V Shunt Trip            | NS2-25-SH110  |
| 230V Shunt Trip            | NS2-25-SH220  |
| 110V Under Voltage Release | NS2-25-UV110  |
| 230V Under Voltage Release | NS2-25-UV220  |
| 400V Under Voltage Release | NS2-25-UV400  |
| 1 NO + 1 NC Head Mount Aux | NS2-80B-AU11  |
| 2 NO Head Mount Aux        | NS2-80B-AU20  |

## 22.5mm Control Components



NP2-BA/G



NP2-BP/R



NP2-BW334



NP2-BV/R



ND16



ND16-22D



NP2LED

| DESCRIPTION   | PART NO.  |
|---|-----------|
| <b>PUSH BUTTON OPERATOR WITH GUARD RING</b>   |           |
| <input type="radio"/> White   | NP2-BA/W  |
| <input checked="" type="radio"/> Green  | NP2-BA/G  |
| <input type="radio"/> Red   | NP2-BA/R  |
| <input type="radio"/> Yellow  | NP2-BA/Y  |
| <input type="radio"/> Blue  | NP2-BA/BL |
| <input checked="" type="radio"/> Black  | NP2-BA/B  |
| <b>PUSH BUTTON OPERATOR WITH BOOT</b>   |           |
| <input checked="" type="radio"/> Green  | NP2-BP/G  |
| <input type="radio"/> Red   | NP2-BP/R  |
| <input type="radio"/> Yellow  | NP2-BP/Y  |
| <input type="radio"/> Blue  | NP2-BP/BL |
| <input checked="" type="radio"/> Black  | NP2-BP/B  |
| <b>ILLUMINATED PUSH BUTTON OPERATOR</b>   |           |
| <input type="radio"/> White   | NP2-BW314 |
| <input checked="" type="radio"/> Green  | NP2-BW334 |
| <input type="radio"/> Red   | NP2-BW344 |
| <input type="radio"/> Yellow  | NP2-BW354 |
| <input type="radio"/> Blue  | NP2-BW364 |
| <input type="radio"/> Clear   | NP2-BW374 |
| <b>INDICATOR LAMP HEADS</b>   |           |
| <input checked="" type="radio"/> Green  | NP2-BV/G  |
| <input type="radio"/> Red   | NP2-BV/R  |
| <input type="radio"/> Yellow  | NP2-BV/Y  |
| <input type="radio"/> Blue  | NP2-BV/B  |
| <input type="radio"/> Clear   | NP2-BV/C  |
| <b>22.5mm MULTI CHIP LED INDICATORS</b> (30K Hours Life) *SPECIFY VOLTAGE & COLOUR* |           |
| <input type="radio"/> Red   | ND16*     |
| <input type="radio"/> Yellow  | ND16*     |
| <input checked="" type="radio"/> Green  | ND16*     |
| <input type="radio"/> Amber   | ND16*     |
| <b>24V AC/DC, 110V/230V AC only</b>   |           |
| <input type="radio"/> White   | ND16*     |
| <input type="radio"/> Blue  | ND16*     |
| <b>110V/230V AC only</b>  |           |
| <input type="radio"/> White   | ND16*     |
| <input type="radio"/> Blue  | ND16*     |
| <input checked="" type="radio"/> Red  | ND16-22D* |
| <input type="radio"/> Yellow  | ND16-22D* |
| <input checked="" type="radio"/> Green  | ND16-22D* |
| <b>110V AC/DC, 230V AC/DC</b>   |           |
| <input type="radio"/> White   | ND16-22D* |
| <input type="radio"/> Blue  | ND16-22D* |
| <b>110V AC/DC, 230V AC/DC</b>   |           |
| <b>BA9 FITTING LEDs</b> *SPECIFY VOLTAGE & COLOUR*                                  |           |
| <input type="radio"/> White   | NP2LED*   |
| <input type="radio"/> Blue, 6V, 24V, 110V   | NP2LED*   |
| <input checked="" type="radio"/> Red  | NP2LED*   |
| <input type="radio"/> Yellow  | NP2LED*   |
| <input checked="" type="radio"/> Green, 6V, 24V, 110V, 230V                         | NP2LED*   |

## 22.5mm Control Components



NFM1-22



NP2-BS



NP2-BJ



NP2-ED



NP2-BG



NP2-BL832



NP2-EA

| DESCRIPTION  | PART NO.   |
|--|------------|
| <b>BUZZER *SPECIFY VOLTAGE &amp; COLOUR*</b>                             |            |
| ● Red ● Black, AC/DC 24~110V, AC 230, 400V. Interrupted Type             | NFM1-22/F  |
| ● Red ● Black, AC/DC 24~110V, AC 230, 400V. Flush Mount Flash            | NFM1-22/FS |
| ● Red ● Black, AC/DC 24~110V, AC 230, 400V.                              | NFM1-22/L  |
| Continuous Flash Type  |            |
| ● Red ● Black, AC/DC 24~110V, AC 230, 400V.                              | NFM1-22/LC |
| Continuous Lit Type  |            |
| <b>SWITCH OPERATORS</b>  |            |
| 40mm Twist Release Emergency Stop Operator                               | NP2-BS     |
| 40mm Twist Release Plastic Emergency Stop Operator                       | NP2-ES     |
| 40mm Spring Return Emergency Stop Operator                               | NP2-BC/R   |
| 2 Position (Maintained) Selector Switch Operator                         | NP2-BD2    |
| 3 Position (Maintained) Selector Switch Operator                         | NP2-BD3    |
| 2 Position (Spring Return) Selector Switch Operator                      | NP2-BD4    |
| 3 Position (Spring Return) Selector Switch Operator                      | NP2-BD5    |
| 2 Position (Maintained Wing Lever) Selector Switch Operator              | NP2-BJ2    |
| 3 Position (Maintained Wing Lever) Selector Switch Operator              | NP2-BJ3    |
| 2 Position (Spring Return Wing Lever) Selector Switch Operator           | NP2-BJ4    |
| 3 Position (Wing Lever) Selector Switch Operator (Spring Ret. to Centre) | NP2-BJ5    |
| 2 Position (Maintained) Plastic Selector Switch Operator                 | NP2-ED2    |
| <b>KEY SWITCHES</b>  |            |
| 2 Position (Maintained) Key Switch, Key out in 1 position only           | NP2-BG2    |
| 3 Position (Maintained) Key Switch, Key out in CENTRE position only      | NP2-BG3    |
| 2 Position (Spring Return) Key Switch                                    | NP2-BG4    |
| 3 Position (Spring Return) Key Switch, Key out CENTRE position only      | NP2-BG5    |
| 2 Position (Maintained) Key Switch, Key out in BOTH positions            | NP2-BG2B   |
| 3 Position (Maintained) Key Switch, Key out in LEFT position only        | NP2-BG3B   |
| 3 Position (Maintained) Key Switch, Key out in RIGHT position only       | NP2-BG3C   |
| 3 Position (Maintained) Key Switch, Key out in ALL positions             | NP2-BG3D   |
| 3 Position (Maintained) Key Switch, Key out in LEFT & RIGHT positions    | NP2-BG3E   |
| <b>PUSH BUTTONS OPERATORS</b>  |            |
| ●/● Red/Green Twin Push Button Operator                                  | NP2-BL832  |
| ●/● Red/Green Illuminated Twin Push Button Operator                      | NP2-BW844  |
| ● Black Push Button Operator   | NP2-EA/B   |
| ● Blue Push Button Operator  | NP2-EA/BL  |
| ○ White Push Button Operator   | NP2-EA/W   |
| ● Yellow Push Button Operator  | NP2-EA/Y   |
| ● Black Push Button Operator with White Arrow                            | NP2-EA/B/A |
| ○ White Push Button Operator with Black Arrow                            | NP2-EA/W/A |
| ● Green Push Button Operator with White I                                | NP2-EA/G/I |
| ● Red Push Button Operator with White O                                  | NP2-EA/R/O |

## 22.5mm Control Components



NP2-B



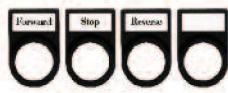
NP2-BE101



NP2-BL832, NP2-B &amp; NP2-BE102



NP2-B324



NP2-BZ31

| DESCRIPTION  | PART NO.  |
|--|-----------|
| <b>MOUNTING BLOCKS &amp; CONTACT UNITS</b>               |           |
| Contacts Mounting Block                                  | NP2-B     |
| NO Contact Unit  | NP2-BE101 |
| NC Contact Unit  | NP2-BE102 |
| NO Contact Unit and Mounting Block                       | NP2-BZ101 |
| NC Contact Unit and Mounting Block                       | NP2-BZ102 |
| 2 NO Contact Unit and Mounting Block                     | NP2-BZ103 |
| NO Contact Block for Chint Enclosures                    | NP2-L1111 |
| NC Contact Block for Chint Enclosures                    | NP2-L1121 |
| <b>BUTTON BASES</b>                                      |           |
| Direct Feed Push Button Base                             | NP2-BW06  |
| 110/230V Resistor Type Push Button Base                  | NP2-BW07  |
| 230/6V Transformer Type Push Button Base                 | NP2-BW04  |
| 110/6V Transformer Type Push Button Base                 | NP2-BW02  |
| <b>ENCLOSED SWITCHES &amp; UNITS</b>                     |           |
| 1 NC Enclosed Emergency Stop Unit                        | NP2-J174  |
| Enclosed 2 Position Selector Switch with 1 NO Contact    | NP2-B132  |
| <b>PUSH BUTTON STATIONS &amp; PUSH BUTTON ENCLOSURES</b> |           |
| 2 Position Push Button Station: ●/● Red/Green            | NP2-B213  |
| 3 Position Push Button Station: Up, Down & Stop          | NP2-B324  |
| 2 NO + 1 NC Contacts                                     |           |
| 1 Position Empty Push Button Enclosure                   | NP2-B1    |
| 2 Position Empty Push Button Enclosure                   | NP2-B2    |
| 3 Position Empty Push Button Enclosure                   | NP2-B3    |
| <b>ACCESSORIES</b>                                       |           |
| Legend Plates  | NP2-BZ31  |

## NP8 Series, Control Components



| DESCRIPTION  | PART NO.             |
|--|----------------------|
| <b>MOMENTARY FLUSH HEAD - NON ILLUMINATED</b>                |                      |
| ○ White  | NP8-BN/1             |
| ● Green  | NP8-BN/3             |
| ● Red  | NP8-BN/4             |
| ● Yellow   | NP8-BN/5             |
| ● Blue   | NP8-BN/6             |
| <b>MOMENTARY FLUSH HEAD - ILLUMINATED</b>                    |                      |
| ○ White  | NP8-BND/1            |
| ● Green  | NP8-BND/3            |
| ● Red  | NP8-BND/4            |
| ● Yellow   | NP8-BND/5            |
| ● Blue   | NP8-BND/6            |
| <b>CONTACT BLOCK</b>   |                      |
| N/C Contact Block  | NP8-CB01             |
| N/O Contact Block  | NP8-CB10             |
| <b>LEDs</b>  |                      |
| ● Green LED, AC 110V-230V                                    | NP8-LED-G-110V-230V  |
| ● Green LED, AC/DC 24V                                       | NP8-LED-G-24VACDC    |
| ● Red LED, AC 110V-230V                                      | NP8-LED-R-110V-230V  |
| ● Red LED, AC/DC 24V   | NP8-LED-R-24VACDC    |
| ● Yellow LED, AC 110V-230V                                   | NP8-LED-Y-110V-230V  |
| ● Yellow LED, AC/DC 24V                                      | NP8-LED-Y-24VACDC    |
| ● Blue LED, AC 110V-230V                                     | NP8-LED-BL-110V-230V |
| ● Blue LED, AC/DC 24V  | NP8-LED-BL-24VACDC   |
| <b>MUSHROOM HEAD BUTTONS &amp; SELECTOR SWITCHES</b>         |                      |
| ● Red 40mm Mushroom Head – Non Illuminated                   | NP8-M/14             |
| ● Red 40mm Mushroom Head Maintained – Non Illuminated        | NP8-ZS/14            |
| <b>DOUBLE-HEADED FLUSH MOMENTARY BUTTONS</b>                 |                      |
| Double-headed Flush Momentary Button – Non Illuminated       | NP8-S                |
| Double-headed Flush Momentary Button – Illuminated           | NP8-SD               |
| <b>SELECTOR SWITCHES – NON ILLUMINATED</b>                   |                      |
| ● Black Selector Switches 2 Positions Head – Non Illuminated | NP8-X/212            |
| ● Black Selector Switches 3 Positions Head – Non Illuminated | NP8-X/312            |
| <b>SELECTOR SWITCHES 2 POSITIONS HEAD – ILLUMINATED</b>      |                      |
| ○ White  | NP8-XD/211           |
| ● Green  | NP8-XD/213           |
| ● Red  | NP8-XD/214           |
| ● Yellow   | NP8-XD/215           |
| ● Blue   | NP8-XD/216           |

## NP8 Series, Control Components



NP8-XD/313



NP8-Y/21

| DESCRIPTION  | PART NO.   |
|--|------------|
| <b>SELECTOR SWITCHES 3 POSITIONS HEAD – ILLUMINATED</b>              |            |
| ○ White  | NP8-XD/311 |
| ● Green  | NP8-XD/313 |
| ● Red  | NP8-XD/314 |
| ● Yellow   | NP8-XD/315 |
| ● Blue   | NP8-XD/316 |
| <b>SELECTOR SWITCHES WITH KEY 2 POSITIONS HEAD – NON ILLUMINATED</b> |            |
| 2 Position (Maintained) Selector Switch Head                         | NP8-Y/21   |
| 2 Position (Spring Return) Selector Switch Head                      | NP8-Y/22   |
| <b>SELECTOR SWITCHES WITH KEY 3 POSITIONS HEAD – NON ILLUMINATED</b> |            |
| 3 Position (Maintained) Selector Switch Head                         | NP8-Y/31   |

## ND9 Series, Modular Indicators



ND9

| DESCRIPTION                    | PART NO.  |
|--------------------------------|-----------|
| <b>NP9 SERIES PUSH BUTTONS</b> |           |
| ○ White, 230V                  | ND9-W230  |
| ● Green, 230V                  | ND9-G230  |
| ● Red, 230V                    | ND9-R230  |
| ● Yellow, 230V                 | ND9-Y230  |
| ● Blue, 230V                   | ND9-B230  |
| ● ● Green + Green, 230V        | ND9-GG230 |

## NP9 Series, Push Buttons



NP9

| DESCRIPTION   | PART NO.   |
|---|------------|
| <b>NP9 SERIES PUSH BUTTONS</b>                      |            |
| ● Red 230V, 2 NO and 1 NC Illuminated Push Button   | NP9-153021 |
| ● Green 230V, 2 NO and 1 NC Illuminated Push Button | NP9-153024 |

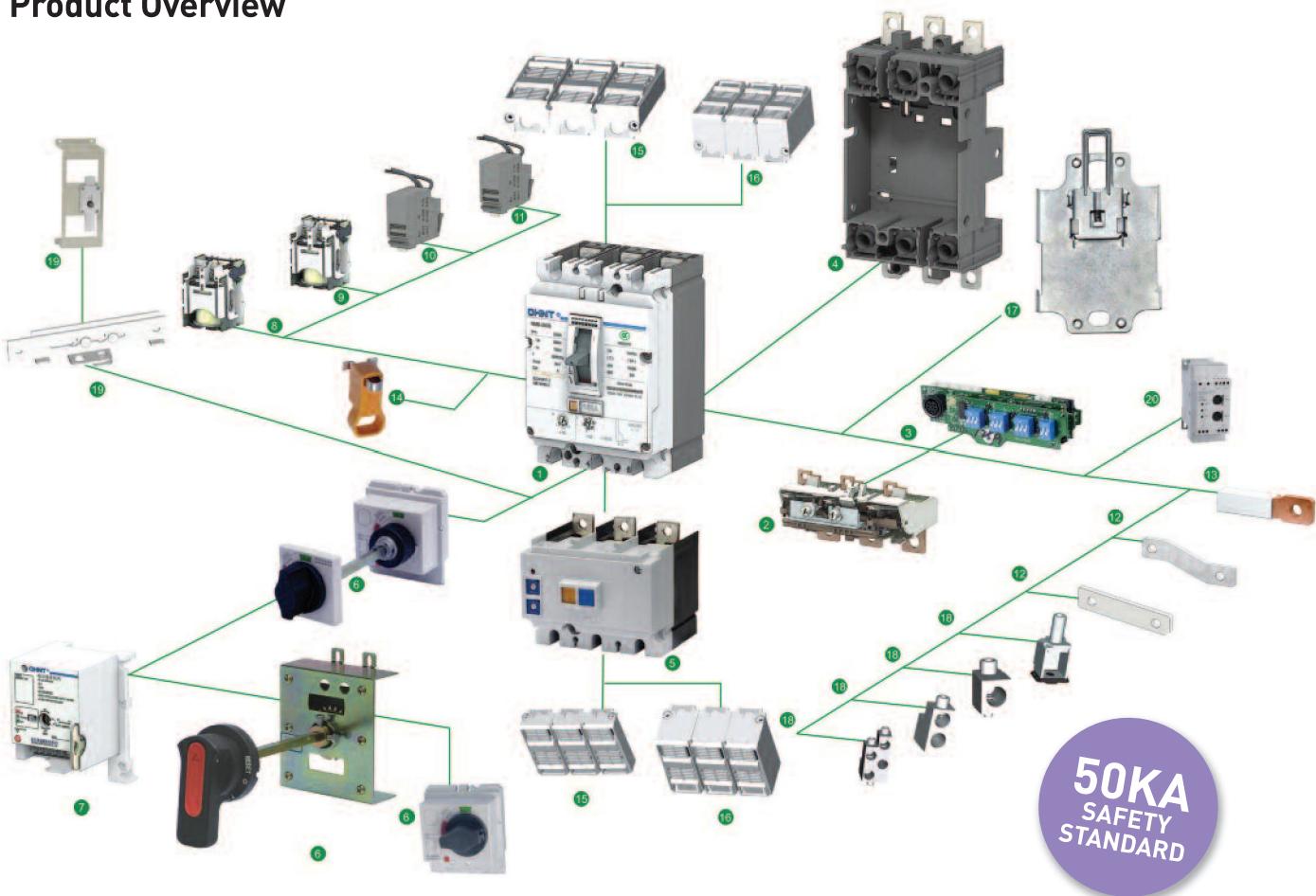


# POWER PROTECTION DEVICES

## NM8 Molded Case Circuit Breaker Overview

- KEMA approved
- Standard IEC/EN 60947-2
- 50KA minimum breaking capacity (Icu)
- Modular frame sizes: 250A, 630A and 1250A
- Economic 125A frame 50KA (Icu)
- Common accessories
- DC ratings for thermal magnetic protection relays
- Zero arcing
- Rotating double break contacts
- Current limiting
- Cascading and discrimination data tables
- Isolation function
- Intelligent electronic and thermal magnetic protection relays

### Product Overview



- 1** Body
- 2** Thermal-magnetic Release
- 3** Electronic Release
- 4** Plug-in Base
- 5** Residual Current Protection Module
- 6** Rotary Manual Operating Handle
- 7** Motor Driven Operating Mechanism
- 8** Under-voltage Release
- 9** Shunt Release
- 10** Alarm Contact

- 11** Auxiliary Contact
- 12** Front Connection Bar
- 13** Rear Connection Bar
- 14** Locking System (padlock)
- 15** Short Terminal Cover
- 16** Extended Terminal Cover
- 17** DIN Rail Adaptor
- 18** Cage Clamp Terminal
- 19** Mechanical Interlock
- 20** Communication Module

## NM8-125S Frame, Thermal Magnetic



NM8-125S-3P

**NM8-125S FRAME  
3 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V**

| In (A) | li (A) | PART NO.         |
|--------|--------|------------------|
| 32     | 320    | NM8-125S-3P-32A  |
| 40     | 400    | NM8-125S-3P-40A  |
| 50     | 500    | NM8-125S-3P-50A  |
| 63     | 630    | NM8-125S-3P-63A  |
| 80     | 800    | NM8-125S-3P-80A  |
| 100    | 1000   | NM8-125S-3P-100A |
| 125    | 1250   | NM8-125S-3P-125A |

**NM8-125S FRAME  
4 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V**

| In (A) | li (A) | PART NO.         |
|--------|--------|------------------|
| 32     | 320    | NM8-125S-4P-32A  |
| 40     | 400    | NM8-125S-4P-40A  |
| 50     | 500    | NM8-125S-4P-50A  |
| 63     | 630    | NM8-125S-4P-63A  |
| 80     | 800    | NM8-125S-4P-80A  |
| 100    | 1000   | NM8-125S-4P-100A |
| 125    | 1250   | NM8-125S-4P-125A |

## NM8-250S Frame, Thermal Magnetic



NM8-250S-3P

**NM8-250S FRAME  
3 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V**

| In (A) | li (A) | PART NO.         |
|--------|--------|------------------|
| 100    | 1000   | NM8-250S-3P-100A |
| 125    | 1250   | NM8-250S-3P-125A |
| 160    | 1600   | NM8-250S-3P-160A |
| 200    | 2000   | NM8-250S-3P-200A |
| 250    | 2500   | NM8-250S-3P-250A |

**NM8-250S FRAME  
4 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V**

| In (A) | li (A) | PART NO.         |
|--------|--------|------------------|
| 100    | 1000   | NM8-250S-4P-100A |
| 125    | 1250   | NM8-250S-4P-125A |
| 160    | 1600   | NM8-250S-4P-160A |
| 200    | 2000   | NM8-250S-4P-200A |
| 250    | 2500   | NM8-250S-4P-250A |

## NM8-400S Frame, Thermal Magnetic



NM8-400S-3P

### NM8-400S FRAME

3 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V

| In (A) | li (A) | PART NO.         |
|--------|--------|------------------|
| 400    | 4000   | NM8-400S-3P-400A |

### NM8-400S FRAME

4 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V

| In (A) | li (A) | PART NO.         |
|--------|--------|------------------|
| 400    | 4000   | NM8-400S-4P-400A |

## NM8-800S Frame, Thermal Magnetic



NM8-800S-3P

### NM8-800S FRAME

3 POLE ADJUSTABLE MCCB.

| In (A) | li (A) | PART NO.         |
|--------|--------|------------------|
| 800    | 8000   | NM8-800S-3P-800A |

### NM8-800S FRAME

4 POLE ADJUSTABLE MCCB.

| In (A) | li (A) | PART NO.         |
|--------|--------|------------------|
| 800    | 8000   | NM8-800S-4P-800A |

## NM8-1250S Frame, Thermal Magnetic



NM8-1250S-3P

### NM8-1250S FRAME 3 POLE ADJUSTABLE MCCB.

| In (A) | li (A) | PART NO.           |
|--------|--------|--------------------|
| 1000   | 10000  | NM8-1250S-3P-1000A |
| 1250   | 12500  | NM8-1250S-3P-1250A |

### NM8-1250S FRAME 4 POLE ADJUSTABLE MCCB.

| In (A) | li (A) | PART NO.           |
|--------|--------|--------------------|
| 1000   | 10000  | NM8-1250S-4P-1000A |
| 1250   | 12500  | NM8-1250S-4P-1250A |

## NM8S-400S Frame, Electronic



NM8S-400S-3P

### NM8S-400S FRAME 3 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V

| In (A) | li (A) | PART NO.          |
|--------|--------|-------------------|
| 400    | 4000   | NM8S-400S-3P-400A |

### NM8S-400S FRAME 4 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V

| In (A) | li (A) | PART NO.          |
|--------|--------|-------------------|
| 400    | 4000   | NM8S-400S-4P-400A |

## NM8S-630S Frame, Electronic



NM8S-630S-3P

**NM8S-630S FRAME  
3 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V**

| In (A) | li (A) | PART NO.          |
|--------|--------|-------------------|
| 630    | 7560   | NM8S-630S-3P-630A |

**NM8S-630S FRAME  
4 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V**

| In (A) | li (A) | PART NO.          |
|--------|--------|-------------------|
| 630    | 7560   | NM8S-630S-4P-630A |

## NM8S-800S Frame, Electronic

**NM8S-800S FRAME  
3 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V**

| In (A) | li (A) | PART NO.          |
|--------|--------|-------------------|
| 800    | 9600   | NM8S-800S-3P-800A |

**NM8S-800S FRAME  
4 POLE ADJUSTABLE MCCB. ICU=ICS 50KA 415V**

| In (A) | li (A) | PART NO.          |
|--------|--------|-------------------|
| 800    | 9600   | NM8S-800S-4P-800A |

## NM8S-1250S Frame, Electronic

**NM8S-1250S FRAME  
3 POLE ADJUSTABLE MCCB.**

| In (A) | li (A) | PART NO.            |
|--------|--------|---------------------|
| 1000   | 12000  | NM8S-1250S-3P-1000A |
| 1250   | 15000  | NM8S-1250S-3P-1250A |

**NM8S-1250S FRAME  
4 POLE ADJUSTABLE MCCB.**

| In (A) | li (A) | PART NO.            |
|--------|--------|---------------------|
| 1000   | 12000  | NM8S-1250S-4P-1000A |
| 1250   | 15000  | NM8S-1250S-4P-1250A |

**125A Frame Accessories**

| DESCRIPTION                          | PART NO.        |
|--------------------------------------|-----------------|
| <b>3P, 125A FRAME ACCESSORIES</b>    |                 |
| 3P Short Terminal Shield             | NM8-ST-3P-125   |
| 3P Long Terminal Shield              | NM8-LT-3P-125   |
| 3P/4P Rotary Handle, Metal           | NM8-MR-125      |
| 3P IP55 Rotary Handle, Plastic       | NM8-MR55-125    |
| 3P Boxing Contact (pack of 3)        | NM8-BT-3P-125   |
| 3P Interlock Plate                   | NM8-IL-3P-125   |
| 3P Front Connection Bar              | NM8-FCP-3P-125  |
| 3P Din Rail Adaptor                  | NM8-ADPT-3P-125 |
| <b>4P, 125A FRAME ACCESSORIES</b>    |                 |
| 4P Short Terminal Shield             | NM8-ST-4P-125   |
| 4P Long Terminal Shield              | NM8-LT-4P-125   |
| 3P/4P Rotary Handle, Metal           | NM8-MR-125      |
| 4P IP55 Rotary Handle, Plastic       | NM8-MR55-125    |
| 4P Boxing Contact (pack of 4)        | NM8-BT-4P-125   |
| 4P Interlock Plate                   | NM8-IL-4P-125   |
| 4P Front Connection Bar              | NM8-FCP-4P-125  |
| <b>125A FRAME ACCESSORIES</b>        |                 |
| Auxiliary Contact (Inc. 1 NO + 1 NC) | NM8-AX-630      |
| Alarm Contact (Inc. 1 NO + 1 NC)     | NM8-AL-630      |
| 230V Shunt Trip                      | NM8-SH230-125   |
| 230V Undervoltage Release            | NM8-UV230-125   |
| Toggle Padlock Device                | NM8-PL-125      |
| Motor Operator 230V                  | NM8-MM230-125   |

**250A Frame Accessories**

| DESCRIPTION                          | PART NO.       |
|--------------------------------------|----------------|
| <b>3P, 250A FRAME ACCESSORIES</b>    |                |
| 3P Short Terminal Shield             | NM8-ST-3P-250  |
| 3P Long Terminal Shield              | NM8-LT-3P-250  |
| 3P/4P Rotary Handle, Metal           | NM8-MR-250     |
| 3P IP55 Rotary Handle, Plastic       | NM8-MR55-250   |
| 3P Boxing Contact (pack of 3)        | NM8-BT-3P-250  |
| 3P Interlock Plate                   | NM8-IL-3P-250  |
| 3P Front Connection Bar              | NM8-FCP-3P-250 |
| <b>4P, 250A FRAME ACCESSORIES</b>    |                |
| 4P Short Terminal Shield             | NM8-ST-4P-250  |
| 4P Long Terminal Shield              | NM8-LT-4P-250  |
| 3P/4P Rotary Handle, Metal           | NM8-MR-250     |
| 4P IP55 Rotary Handle, Plastic       | NM8-MR55-250   |
| 4P Boxing Contact (pack of 4)        | NM8-BT-4P-250  |
| 4P Interlock Plate                   | NM8-IL-4P-250  |
| 4P Front Connection Bar              | NM8-FCP-4P-250 |
| <b>250A FRAME ACCESSORIES</b>        |                |
| Auxiliary Contact (Inc. 1 NO + 1 NC) | NM8-AX-630     |
| Alarm Contact (Inc. 1 NO + 1 NC)     | NM8-AL-630     |
| 230V Shunt Trip                      | NM8-SH230-250  |
| 230V Undervoltage Release            | NM8-UV230-250  |
| Toggle Padlock Device                | NM8-PL-250     |
| Motor Operator 230V                  | NM8-MM230-250  |

## 400A & 600A Frame Accessories

| DESCRIPTION                                  | PART NO.       |
|--|----------------|
| <b>3P, 400A &amp; 600A FRAME ACCESSORIES</b> |                |
| 3P Short Terminal Shield                     | NM8-ST-3P-630  |
| 3P Long Terminal Shield                      | NM8-LT-3P-630  |
| 3P/4P Rotary Handle, Metal                   | NM8-MR-630     |
| 3P IP55 Rotary Handle, Plastic               | NM8-MR55-630   |
| 3P Boxing Contact (pack of 3)                | NM8-BT-3P-630  |
| 3P Interlock Plate                           | NM8-IL-3P-630  |
| 3P Front Connection Bar                      | NM8-FCP-3P-630 |
| <b>4P, 400A &amp; 600A FRAME ACCESSORIES</b> |                |
| 4P Short Terminal Shield                     | NM8-ST-4P-630  |
| 4P Long Terminal Shield                      | NM8-LT-4P-630  |
| 3P/4P Rotary Handle, Metal                   | NM8-MR-630     |
| 4P IP55 Rotary Handle, Plastic               | NM8-MR55-630   |
| 4P Boxing Contact (pack of 4)                | NM8-BT-4P-630  |
| 4P Interlock Plate                           | NM8-IL-4P-630  |
| 4P Front Connection Bar                      | NM8-FCP-4P-630 |
| <b>400A &amp; 600A FRAME ACCESSORIES</b>     |                |
| Auxiliary Contact (Inc. 1 NO + 1 NC)         | NM8-AX-630     |
| Alarm Contact (Inc. 1 NO + 1 NC)             | NM8-AL-630     |
| 230V Shunt Trip                              | NM8-SH230-630  |
| 230V Undervoltage Release                    | NM8-UV230-630  |
| Toggle Padlock Device                        | NM8-PL-630     |
| Motor Operator 230V                          | NM8-MM230-630  |

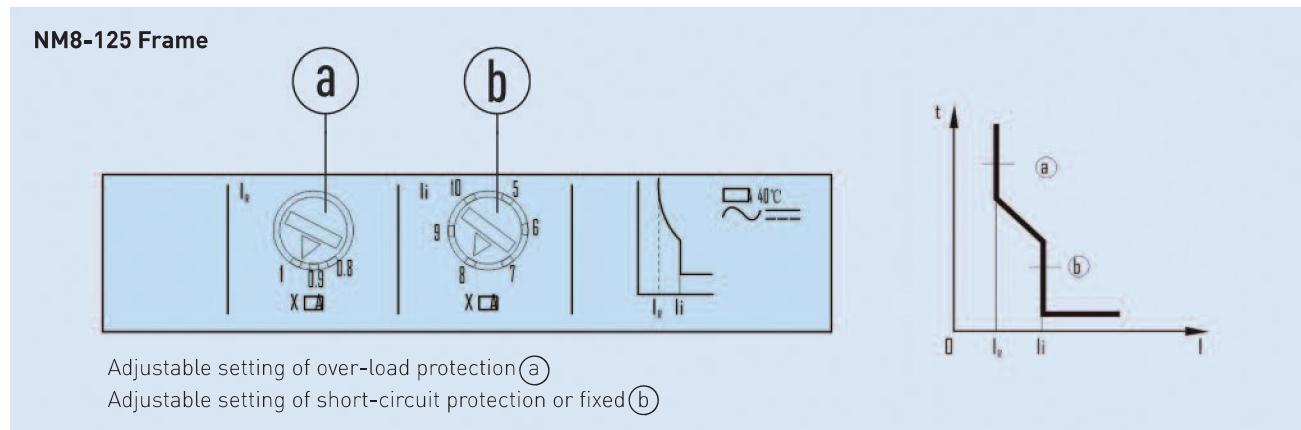
## 800A & 1250A Frame Accessories

| DESCRIPTION                                   | PART NO.        |
|---|-----------------|
| <b>3P, 800A &amp; 1250A FRAME ACCESSORIES</b> |                 |
| 3P Short Terminal Shield                      | NM8-ST-3P-1250  |
| 3P Long Terminal Shield                       | NM8-LT-3P-1250  |
| 3P/4P Rotary Handle, Metal                    | NM8-MR-1250     |
| 3P IP55 Rotary Handle, Plastic                | NM8-MR55-1250   |
| 3P Boxing Contact (pack of 3)                 | NM8-BT-3P-1250  |
| 3P Interlock Plate                            | NM8-IL-3P-1250  |
| 3P Front Connection Bar                       | NM8-FCP-3P-1250 |
| <b>4P, 800A &amp; 1250A FRAME ACCESSORIES</b> |                 |
| 4P Short Terminal Shield                      | NM8-ST-4P-1250  |
| 4P Long Terminal Shield                       | NM8-LT-4P-1250  |
| 3P/4P Rotary Handle, Metal                    | NM8-MR-1250     |
| 4P IP55 Rotary Handle, Plastic                | NM8-MR55-1250   |
| 4P Boxing Contact (pack of 4)                 | NM8-BT-4P-630   |
| 4P Interlock Plate                            | NM8-IL-4P-1250  |
| 4P Front Connection Bar                       | NM8-FCP-4P-1250 |
| <b>800A &amp; 1250A FRAME ACCESSORIES</b>     |                 |
| Auxiliary Contact (Inc. 1 NO + 1 NC)          | NM8-AX-1250     |
| Alarm Contact (Inc. 1 NO + 1 NC)              | NM8-AL-1250     |
| 230V Shunt Trip                               | NM8-SH230-1250  |
| 230V Undervoltage Release                     | NM8-UV230-1250  |
| Toggle Padlock Device                         | NM8-PL-1250     |
| Motor Operator 230V                           | NM8-MM230-1250  |

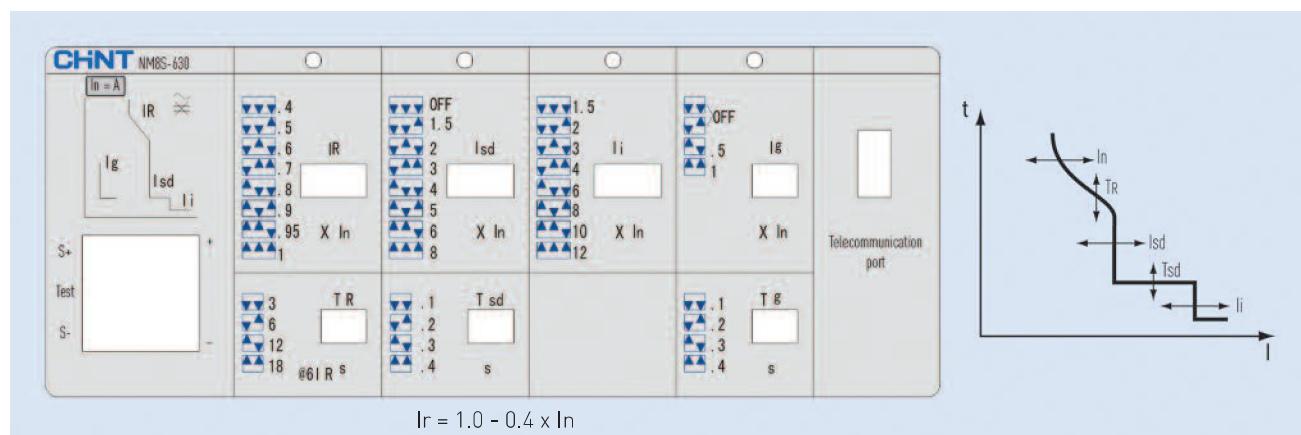
## NM8 Thermal & Electronic Protection Relays

### Thermal-magnetic Release

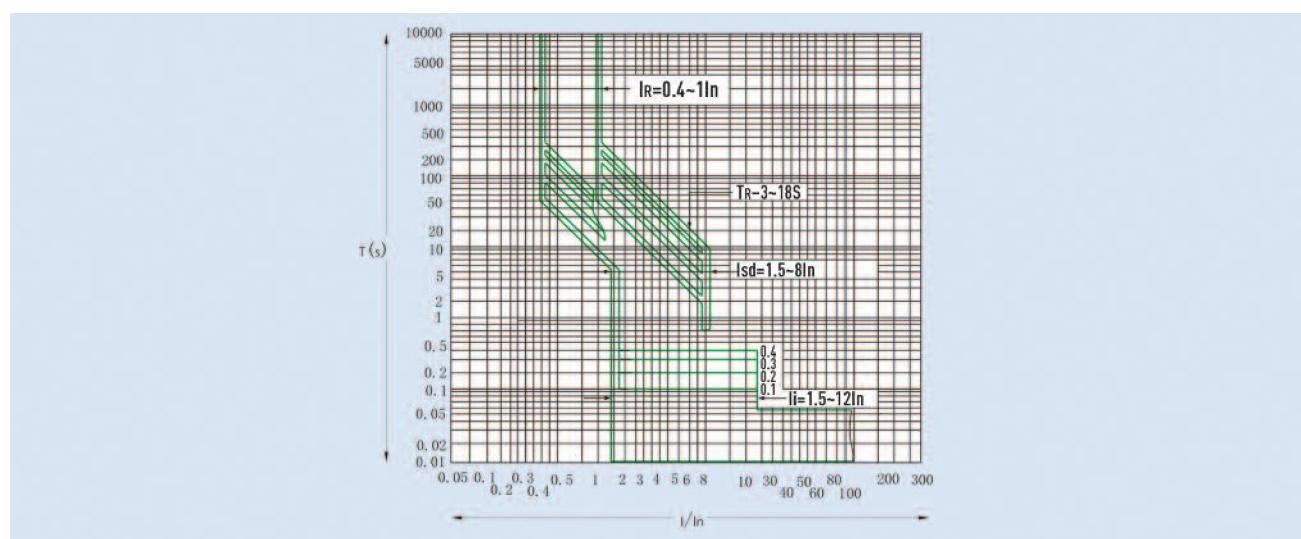
- Thermal-magnetic release of NM8-250, 630 & 1250 breakers can be set to meet protection requirements
- $I_r = 1 - 0.8 \times I_n$ ,  $I_i = 10 - 5 \times I_n$



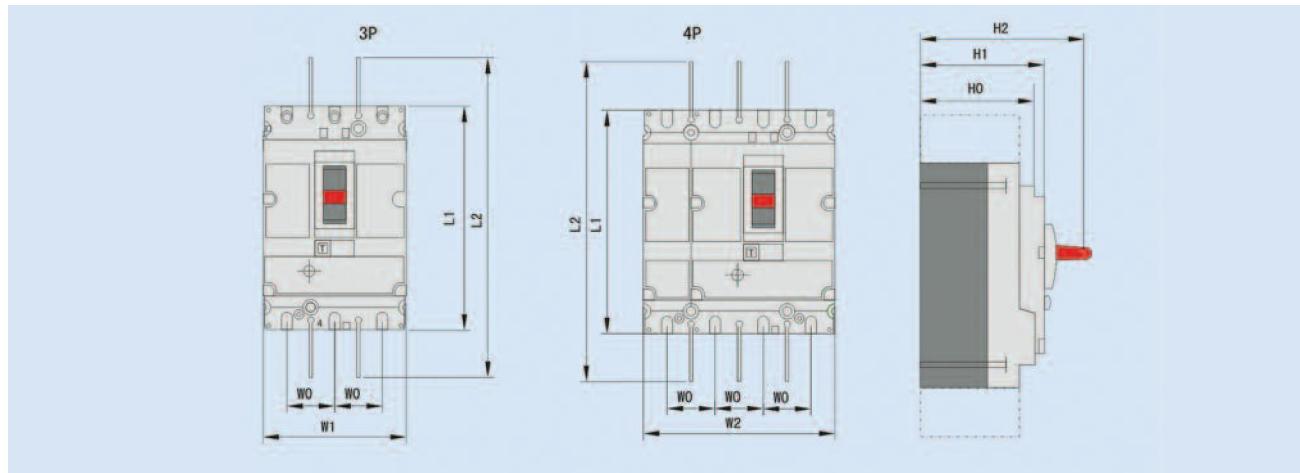
- Electronic protection relays offer very selective characteristic settings, allowing close protection of loads



- Characteristic curve, NM8S-400, 630 (250A~630A)



## NM8 Dimensions



### NM8 DIMENSIONS

| PART NUMBER  | W0 | W1  | W2  | L1  | L2  | H0  | H1  | H2  |
|--------------|----|-----|-----|-----|-----|-----|-----|-----|
| NM8-125S     | 30 | 90  | 120 | 140 | 240 | 72  | 79  | 103 |
| NM8-250S     | 35 | 105 | 140 | 157 | 357 | 82  | 88  | 126 |
| NM8-400/630  | 45 | 140 | 185 | 255 | 474 | 95  | 113 | 168 |
| NM8-800/1250 | 70 | 210 | 280 | 370 | 570 | 132 | 144 | 206 |

| NM8                                   | NM8-125 | NM8S-125<br>NM8-250<br>NM8S-250 | NM8-400, 630<br>NM8S-400,600 | NM8-800, 1250<br>NM8S-800, 1250 |
|---------------------------------------|---------|---------------------------------|------------------------------|---------------------------------|
| Distance between different poles (W0) | 30      | 35                              | 45                           | 70                              |
| L                                     | ≤15     | ≤25                             | ≤32                          | ≤45                             |
| D                                     | ≤7      | ≤10                             | ≤16                          | ≤16                             |
| ϕ                                     | >6      | >8                              | >10                          | >11                             |

All dimensions in millimetres.

## NM8L SERIES, ELCB MCCB



NM8L-125

- Combined ELCB
- MCCB and RCD unit are both adjustable
- Power indication
- Easily judge the reason of the fault
- High breaking capacity to 50KA
- Arcing free

### NM8L-125S ELCB MCCB, 3 Pole

| DESCRIPTION                      | PART NO.                |
|----------------------------------|-------------------------|
| 20A 3P MCCB inc. RCD Adjustable  | NM8L-125S-3P-20A-X1-T1  |
| 32A 3P MCCB inc. RCD Adjustable  | NM8L-125S-3P-32A-X1-T1  |
| 50A 3P MCCB inc. RCD Adjustable  | NM8L-125S-3P-50A-X1-T1  |
| 63A 3P MCCB inc. RCD Adjustable  | NM8L-125S-3P-63A-X1-T1  |
| 100A 3P MCCB inc. RCD Adjustable | NM8L-125S-3P-100A-X1-T1 |
| 125A 3P MCCB inc. RCD Adjustable | NM8L-125S-3P-125A-X1-T1 |

### NM8L-125S ELCB MCCB, 4 Pole

| DESCRIPTION                      | PART NO.                |
|----------------------------------|-------------------------|
| 20A 4P MCCB inc. RCD Adjustable  | NM8L-125S-4P-20A-X1-T1  |
| 32A 4P MCCB inc. RCD Adjustable  | NM8L-125S-4P-32A-X1-T1  |
| 50A 4P MCCB inc. RCD Adjustable  | NM8L-125S-4P-50A-X1-T1  |
| 63A 4P MCCB inc. RCD Adjustable  | NM8L-125S-4P-63A-X1-T1  |
| 100A 4P MCCB inc. RCD Adjustable | NM8L-125S-4P-100A-X1-T1 |
| 125A 4P MCCB inc. RCD Adjustable | NM8L-125S-4P-125A-X1-T1 |
| 63A 4P MCCB inc. RCD Adjustable  | NM8L-125S-4P-63A-X2-T1  |
| 100A 4P MCCB inc. RCD Adjustable | NM8L-125S-4P-100A-X2-T1 |

### NM8L-250S ELCB MCCB, 3 Pole

| DESCRIPTION                      | PART NO.                |
|----------------------------------|-------------------------|
| 20A 3P MCCB inc. RCD Adjustable  | NM8L-250S-3P-20A-X1-T1  |
| 32A 3P MCCB inc. RCD Adjustable  | NM8L-250S-3P-32A-X1-T1  |
| 50A 3P MCCB inc. RCD Adjustable  | NM8L-250S-3P-50A-X1-T1  |
| 63A 3P MCCB inc. RCD Adjustable  | NM8L-250S-3P-63A-X1-T1  |
| 100A 3P MCCB inc. RCD Adjustable | NM8L-250S-3P-100A-X1-T1 |
| 125A 3P MCCB inc. RCD Adjustable | NM8L-250S-3P-125A-X1-T1 |

### NM8L-250S ELCB MCCB, 4 Pole

| DESCRIPTION                      | PART NO.                |
|----------------------------------|-------------------------|
| 20A 4P MCCB inc. RCD Adjustable  | NM8L-250S-4P-20A-X1-T1  |
| 32A 4P MCCB inc. RCD Adjustable  | NM8L-250S-4P-32A-X1-T1  |
| 50A 4P MCCB inc. RCD Adjustable  | NM8L-250S-4P-50A-X1-T1  |
| 63A 4P MCCB inc. RCD Adjustable  | NM8L-250S-4P-63A-X1-T1  |
| 100A 4P MCCB inc. RCD Adjustable | NM8L-250S-4P-100A-X1-T1 |
| 125A 4P MCCB inc. RCD Adjustable | NM8L-250S-4P-125A-X1-T1 |
| 63A 4P MCCB inc. RCD Adjustable  | NM8L-250S-4P-63A-X2-T1  |
| 100A 4P MCCB inc. RCD Adjustable | NM8L-250S-4P-100A-X2-T1 |

| TYPE      | RATED RESIDUAL OPERATING CURRENT $I_{\Delta n}$ (A) | BREAKING TIME OF RESIDUAL CURRENT t(s) |
|-----------|---|--|
| NM8L-125S | X1: 0.05-0.1-0.2-0.5                                | t1: 0.1-0.3-0.5-1                      |
| NM8L-250S | X2: 0.1-0.3-0.5-1                                   | t2: 0.2-0.5-1-2                        |
| NM8L-400S | X3: 0.3-0.5-1-2                                     | t3: 0.2-1-2-3                          |
| NM8L-630S | X3: 0.2-0.5-1-2                                     |  |

Note:  $I_{\Delta n}0-50\% I_{\Delta n}$ , X1, X2, X3, X4 can be combined with t1, t2 and t3 at will.

## NZ7 Series, Automatic Transfer Switch



- Circuit protection combined MCCB type automatic transfer switch
- Dual-power Supply automatic transfer
- Dual-interlock protection
- Digital Controller with multi display
- Multipurpose functions
- Energy saving

NZ7

### NZ7 AUTOMATIC TRANSFER SWITCH

| DESCRIPTION  | PART NO.       |
|--------------|----------------|
| 63A, 3 Pole  | NZ7-63H/3/63   |
| 63A, 4 Pole  | NZ7-63H/4/63   |
| 80A, 3 Pole  | NZ7-125H/3/80  |
| 100A, 3 Pole | NZ7-125H/3/100 |
| 80A, 4 Pole  | NZ7-125H/4/80  |
| 100A, 4 Pole | NZ7-125H/4/100 |
| 160A, 3 Pole | NZ7-250H/3/160 |
| 200A, 3 Pole | NZ7-250H/3/200 |
| 225A, 3 Pole | NZ7-250H/3/225 |
| 160A, 4 Pole | NZ7-250H/4/160 |
| 200A, 4 Pole | NZ7-250H/4/200 |
| 225A, 4 Pole | NZ7-250H/4/225 |
| 250A, 3 Pole | NZ7-400H/3/250 |
| 315A, 3 Pole | NZ7-400H/3/315 |
| 350A, 3 Pole | NZ7-400H/3/350 |
| 400A, 3 Pole | NZ7-400H/3/400 |
| 250A, 4 Pole | NZ7-400H/4/250 |
| 315A, 4 Pole | NZ7-400H/4/315 |
| 350A, 4 Pole | NZ7-400H/4/350 |
| 400A, 4 Pole | NZ7-400H/4/400 |
| 500A, 3 Pole | NZ7-630H/3/500 |
| 630A, 3 Pole | NZ7-630H/3/630 |
| 500A, 4 Pole | NZ7-630H/4/500 |
| 630A, 4 Pole | NZ7-630H/4/630 |

## MCCB Type Isolator



NH18

### MCCB TYPE ISOLATOR

| DESCRIPTION           | PART NO.       |
|-----------------------|----------------|
| 250A, 3 Pole Isolator | NH18-250/250/3 |
| 250A, 4 Pole Isolator | NH18-250/250/4 |
| 400A, 3 Pole Isolator | NH18-400/400/3 |
| 400A, 4 Pole Isolator | NH18-400/400/4 |

## Switch Disconnector



NH40-160/4F

### SWITCH DISCONNECTOR

| DESCRIPTION              | PART NO.    |
|--------------------------|-------------|
| 160A Switch Disconnector | NH40-160/4F |

## NA8G Air Circuit Breaker



Please contact Chint for further details.

NA8G

## Consumer Unit & Enclosure Dimensions

| PART NO.   | H (mm) | W (mm) | D (mm) | PART NO.                | H (mm) | W (mm) | D (mm) |
|--|--------|--------|--------|-------------------------|--------|--------|--------|
| <b>NXDB MARK III 3 PHASE TP&amp;N BOARD (PAGES 6-14)</b> |        |        |        |                         |        |        |        |
| NXDB-4   | 600    | 500    | 155    | NM1TL-063               | 500    | 400    | 215*   |
| NXDB-6   | 700    | 500    | 155    | NM1TL-100               | 500    | 400    | 215*   |
| NXDB-8   | 735    | 500    | 155    | NM1TL-160               | 600    | 400    | 315*   |
| NXDB-12  | 850    | 500    | 155    | NM1TL-200               | 600    | 400    | 315*   |
| NXDB-18  | 1000   | 500    | 155    | NM1TL-250               | 600    | 400    | 315*   |
| NXDB-4G  | 600    | 500    | 155    |                         |        |        |        |
| NXDB-6G  | 700    | 500    | 155    |                         |        |        |        |
| NXDB-8G  | 735    | 500    | 155    |                         |        |        |        |
| NXDB-12G   | 850    | 500    | 155    |                         |        |        |        |
| NXDB-18G   | 1000   | 500    | 155    |                         |        |        |        |
| 8 Way PAN Assembly                                       | 555    | 428    | 120    |                         |        |        |        |
| 12 Way PAN Assembly                                      | 715    | 428    | 120    |                         |        |        |        |
| 18 Way PAN Assembly                                      | 950    | 428    | 120    |                         |        |        |        |
| EX-1803/SB   | 400    | 500    | 155    |                         |        |        |        |
| 250A 4P Incomer Unit with Cable Shrouds                  | 400    | 500    | 155    |                         |        |        |        |
| Dual Meter Kit, Enclosure, Incomer and Cables            | 400    | 500    | 155    |                         |        |        |        |
| <b>NM1T ENCLOSED MCCBS, 3P (PAGE 15)</b>                 |        |        |        |                         |        |        |        |
| NM1T-32/3  | 400    | 300    | 215*   | * Depth includes handle |        |        |        |
| NM1T-63/3  | 400    | 300    | 215*   |                         |        |        |        |
| NM1T-125/3   | 400    | 300    | 215*   |                         |        |        |        |
| NM1T-250/3   | 600    | 400    | 315*   |                         |        |        |        |
| NM1T-400/3   | 800    | 600    | 315*   |                         |        |        |        |
| NM1T-630/3   | 1000   | 600    | 315*   |                         |        |        |        |
| <b>NM1T ENCLOSED MCCBS, 4P (PAGE 15)</b>                 |        |        |        |                         |        |        |        |
| NM1T-32/4  | 400    | 300    | 215*   | * Depth includes handle |        |        |        |
| NM1T-63/4  | 400    | 300    | 215*   |                         |        |        |        |
| NM1T-80/4  | 400    | 300    | 215*   |                         |        |        |        |
| NM1T-100/4   | 400    | 300    | 215*   |                         |        |        |        |
| NM1T-125/4   | 400    | 300    | 215*   |                         |        |        |        |
| NM1T-200/4   | 600    | 400    | 315*   |                         |        |        |        |
| NM1T-250/4   | 600    | 400    | 315*   |                         |        |        |        |
| NM1T-400/4   | 800    | 600    | 315*   |                         |        |        |        |
| NM1T-630/4   | 1000   | 600    | 315*   |                         |        |        |        |
| <b>WALL MOUNTED METAL ENCLOSURES (PAGE 16)</b>           |        |        |        |                         |        |        |        |
| ENC-2520/15  | 250    | 200    | 150    |                         |        |        |        |
| ENC-3025/15  | 300    | 250    | 150    |                         |        |        |        |
| ENC-4030/15  | 400    | 300    | 150    |                         |        |        |        |
| ENC-5040/15  | 500    | 400    | 150    |                         |        |        |        |
| ENC-6040/26  | 600    | 400    | 260    |                         |        |        |        |
| ENC-7050/26  | 700    | 500    | 260    |                         |        |        |        |
| ENC-8060/26  | 800    | 600    | 260    |                         |        |        |        |
| <b>SINGLE PHASE METAL UNITS – SURFACE (PAGE 17)</b>      |        |        |        |                         |        |        |        |
| NX2-8T   | 260    | 254    | 110    |                         |        |        |        |
| NX2-10T  | 260    | 290    | 110    |                         |        |        |        |
| NX2-12T  | 260    | 325    | 110    |                         |        |        |        |
| NX2-15T  | 260    | 380    | 110    |                         |        |        |        |
| NX2-18T  | 260    | 435    | 110    |                         |        |        |        |
| NX2-20T  | 260    | 470    | 110    |                         |        |        |        |
| <b>SINGLE PHASE METAL UNITS – FLUSH (PAGE 17)</b>        |        |        |        |                         |        |        |        |
| NX2-8TF  | 290    | 284    | 110    |                         |        |        |        |
| NX2-10TF   | 290    | 320    | 110    |                         |        |        |        |
| NX2-12TF   | 290    | 355    | 110    |                         |        |        |        |
| NX2-15TF   | 290    | 410    | 110    |                         |        |        |        |
| NX2-18TF   | 290    | 465    | 110    |                         |        |        |        |
| NX2-20TF   | 290    | 500    | 110    |                         |        |        |        |

\*\* Please note: Cabling access points are meant as "Cut outs, NOT Knock Outs" using a drill and saw, alternatively a sharp knife such as a Stanley knife, otherwise damage to the enclosure may occur. \*\*

These products conform to IEC – EN 60439-3 and are manufactured from flame retardant materials.

## Consumer Unit & NDK Dimensions

| PART NO.                                      | H (mm) | W (mm) | D (mm) |
|---|--------|--------|--------|
| <b>DUAL RCDS CONSUMER UNITS (PAGE 18)</b>     |        |        |        |
| NX2-14DSL-A                                   | 250    | 325    | 144    |
| NX2-14DSL-H                                   | 250    | 325    | 144    |
| NX2-18DSL-A                                   | 250    | 395    | 144    |
| NX2-18DSL-H                                   | 250    | 395    | 144    |
|   |        |        |        |
| <b>SPLIT LOAD CONSUMER UNITS (PAGE 18)</b>    |        |        |        |
| NX2-10W                                       | 250    | 255    | 144    |
| NX2-14A                                       | 250    | 325    | 144    |
| NX2-14H                                       | 250    | 325    | 144    |
| NX2-18A                                       | 250    | 395    | 144    |
| NX2-18H                                       | 250    | 395    | 144    |
|   |        |        |        |
| <b>CONSUMER UNITS (PAGE 19)</b>               |        |        |        |
| NX2-8M  | 250    | 215    | 144    |
| NX2-10M                                       | 250    | 255    | 144    |
| NX2-14M                                       | 250    | 325    | 144    |
| NX2-18M                                       | 250    | 395    | 144    |
|   |        |        |        |
| <b>ENCLOSURES (PAGE 19)</b>                   |        |        |        |
| NXW1-3  | 120    | 100    | 109    |
| NXW1-5  | 120    | 135    | 109    |
| NX2-10A                                       | 250    | 255    | 144    |
|   |        |        |        |
| <b>PRE-ASSEMBLED ENCLOSURES (PAGE 19)</b>     |        |        |        |
| A29800  | 120    | 100    | 109    |
| A28600/2                                      | 120    | 135    | 109    |
|   |        |        |        |
| <b>PRE-ASSEMBLED CONSUMER UNITS (PAGE 20)</b> |        |        |        |
| NX2-14DSLRH1                                  | 250    | 325    | 144    |
| NX2-18DSLRH1                                  | 250    | 395    | 144    |

| PART NO.  | H (mm) | W (mm) | D (mm) |
|---|--------|--------|--------|
| <b>28 &amp; 36 WAY INSULATED CONSUMER UNITS (PAGE 20)</b> |        |        |        |
| NX2-28A   | 510    | 325    | 120    |
| NX2-36A   | 510    | 395    | 120    |
|   |        |        |        |
| PART NO.  | A (mm) | B (mm) | C (mm) |
| <b>ENCLOSED ROTARY ISOLATOR (PAGE 31)</b>                 |        |        |        |
| SRS-332   | 160    | 83     | 85     |
| SRS-432   | 160    | 83     | 85     |
| SRS-363   | 190    | 95     | 160    |
| SRS-463   | 190    | 95     | 160    |
| SRS-3100  | 250    | 160    | 190    |
| SRS-4100  | 250    | 160    | 190    |
|   |        |        |        |
| PART NO.  | A (mm) | B (mm) | C (mm) |
| <b>NDK CIRCUIT TRANSFORMER (PAGE 38)</b>                  |        |        |        |
| NDK-50  | 84     | 83     | 85     |
| NDK-100   | 99     | 87     | 103    |
| NDK-150   | 99     | 93     | 103    |
| NDK-200   | 99     | 105    | 103    |
| NDK-250   | 150    | 120    | 130    |
| NDK-300   | 150    | 125    | 130    |
| NDK-400   | 153    | 155    | 148    |
| NDK-500   | 153    | 155    | 148    |
| NDK-1000  | 174    | 186    | 173    |

## Helpful Information

### Definition of Degrees of Protection to IEC 144

**IP**

#### PROTECTION AGAINST SOLID OBJECTS

|          |   |
|----------|---|
| <b>0</b> | No Protection   |
| <b>1</b> | Protection against solid objects up to 50mm<br>e.g. accidental touch by hands |
| <b>2</b> | Protection against solid objects up to 12mm<br>e.g. fingers                   |
| <b>3</b> | Protection against solid objects up to 2.5mm<br>e.g. tools and wires          |
| <b>4</b> | Protection against solid objects over 1mm<br>e.g. tools and small wires       |
| <b>5</b> | Protection against dust (no harmful deposit)                                  |
| <b>6</b> | Totally protected against dust  |

#### PROTECTION AGAINST LIQUIDS

|          |   |
|----------|---|
| <b>0</b> | No Protection   |
| <b>1</b> | Protected against vertically falling drops of water e.g. condensation |
| <b>2</b> | Protected against direct sprays of water up to 15° from the vertical  |
| <b>3</b> | Protected against sprays to 60° from the vertical                     |
| <b>4</b> | Protected against water sprayed from all directions                   |
| <b>5</b> | Protected against low pressure jets of water from all directions      |
| <b>6</b> | Protected against conditions on ship decks                            |
| <b>7</b> | Protected against immersion in water                                  |
| <b>8</b> | Protected against long periods of immersion under pressure            |

### Useful Formulae

$$KVA = \frac{h.p. \times 746}{1000 \times p.f. \times \text{Efficiency}}$$

$$IL = \frac{h.p. \times 746}{V_L \times 1.73 \times \text{Efficiency} \times p.f.}$$

$$KW = \frac{IL \times VL \times 1.73 \times p.f.}{1000}$$

$$h.p. = \frac{KW \times 1000 \times \text{Efficiency}}{746}$$

$$h.p. = \frac{KVA \times 1000 \times \text{Efficiency} \times p.f.}{746}$$

$$h.p. = \frac{V_L \times I_L \times 1.73 \times \text{Efficiency} \times p.f.}{746}$$

$$KVA = \frac{KW}{p.f.}$$

$$KVA = \frac{IL \times VL \times 1.73}{1000}$$

$$KW = KVA \times p.f.$$

Where:

**V<sub>L</sub>** = Line Voltage **I<sub>L</sub>** = Line Current and **p f** = Power Factor

$$\text{Power Factor} = \frac{KW \times 1000}{1.73 \times \text{Volts} \times \text{Amps}}$$

### KVA TO AMPERES (415V 3PH)

| KVA | A   | KVA  | A    |
|-----|-----|------|------|
| 45  | 63  | 453  | 630  |
| 58  | 80  | 575  | 800  |
| 72  | 100 | 719  | 1000 |
| 90  | 125 | 899  | 1250 |
| 115 | 160 | 1150 | 1600 |
| 144 | 200 | 1438 | 2000 |
| 180 | 250 | 1797 | 2500 |
| 226 | 315 | 2264 | 3150 |
| 288 | 400 | 2875 | 4000 |
| 359 | 500 |      |      |

# STANDARD TERMS AND CONDITIONS OF SALE

Unless otherwise stated in writing, the following conditions shall apply:

## 1. DEFINITIONS

"The seller" means Chint Europe (UK) Ltd.

"The Purchaser" means the Company, firm or person to be supplied with the Goods by the Seller.

"Goods" means the products or services to be supplied as per the Contract.

"The Contract" means the Contract for sale/purchase of the Goods made between the Seller and the Purchaser to which these Conditions apply.

## 2. QUOTATIONS & ACCEPTANCE

- Quotations issued shall remain valid for a period of thirty (30) days from the date of issue unless otherwise stated and represent no obligation on the part of the Seller until the Seller accepts the Purchaser's order.
- The Purchaser's order or acceptance must be identified with an order number and must contain sufficient information to enable the Seller to proceed.
- The Seller's conditions shall prevail in the event of inconsistency between conditions of the Seller and the Purchaser. Any variation of the Seller's conditions shall only become binding on the Seller when accepted in writing by a duly authorised person on behalf of the Seller.

## 3. PRICE & DELIVERY

- Prices quoted do not include VAT.
- Carriage and delivery will be arranged at the request and at the expense of the Purchaser. Where applicable C.O.D. charges will be added to the price of the Goods.
- Price variation - The Seller reserves the right to increase the process of the Goods agreed to be sold in proportion to any increase of costs to the Seller between the date of acceptance of the order and the date of delivery (including but not by way of limitation those relating to exchange rates, labour, materials, transport and taxes) of where the increase is due to any act of default of the Purchaser including the cancellation by the Purchaser of part of any order.
- Any delivery period quoted is an estimate only and does not form part of the Contract, and the Seller shall not be held liable for failure to deliver within any quoted period.
- Claims for damage or shortage must be made within 5 working days from date of receipt of Goods at the Purchaser's specified delivery address. Claims for non-delivery must be made in writing within 10 working days of the invoice date.

## 4. PAYMENT

Where account facilities are not approved, payment will be made by cheque or credit card with order. Where account facilities have been approved, payment will be due 30 days after the date the Goods are invoiced, unless otherwise agreed in writing. Payment shall not be withheld on account of any unrelated claim by the Purchase against the Seller. The Seller reserves the right to suspend deliveries where payment of any invoice has not been made on the due date. The Seller reserves the right to charge interest of 2% per month on any amounts outstanding after the due date. The Seller reserves the right to cancel any Contract due to later or non-payment of account if, in the reasonable opinion of the Seller, the Purchaser is unlikely to be able or willing to pay accounts as they fall due. The value of Goods specifically ordered and held in stock against any Contract will be claimed in the event of late or non-payment of account.

## 5. DESCRIPTION

- The Goods will be those supplied to the manufacturer's current standard specification and finish.
- The Seller accepts no liability for any damage or injury arising directly or indirectly from any error or omission in the accuracy of technical data or literature relating to the Goods not being caused by the gross neglect of the Seller.

## 6. TITLE

Payment in full is due in respect of any Goods delivered. Until payment is made in full the Goods shall remain in the Property of the Seller but the risk therein and all liability to third parties in respect thereof shall pass to the Purchaser on delivery. Until full payment has been made, the Purchaser shall store the Goods in such a way as to enable them to be identified as the property of the Seller. Notwithstanding such retention of Title the Purchaser may re-sell the Goods to its own customers in the ordinary course of its business. The privilege may be withdrawn by the Seller at any time at his discretion. Title of Goods cannot pass to a third party until all invoices or outstanding amounts are paid for in full. The Purchaser shall accordingly set aside funds from any re-sale of Goods in whatever form to cover full payment of the Seller's Goods. Upon any breach of Contract, the Purchaser shall return any Goods as requested and allow the Seller immediate access to any premises where Goods are held to enable identification and re-possession as required by the Seller. No liability will be accepted by the Seller for loss or damage howsoever incurred during the exercising of the above rights of re-possession. The Purchaser shall insure the Goods from time of delivery and at all times while the Goods remain in their possession for the full invoice value of the Goods.

## 7. LIMITATION OF LIABILITY

- Except to the extent described in Condition 6, the Seller shall not be liable in Contract tort or otherwise for any loss, damage, injury, expense or cost suffered or incurred by the Purchaser or any third party (including but not limited to consequential or indirect loss or loss of profit) whatsoever or howsoever arising out of/in connection with the supply of Goods or Services by the Seller other than to supply Goods conforming to the original agreed specification or at the Seller's option to refund to the Purchaser any monies already paid in respect of the Goods or Services.
- The Seller's obligation under Condition 6 is the sole liability of the Seller in respect of the quality, fitness for purpose, compliance with description and/or their compliance with sample. All other representations, warranties, conditions, terms and statements in respect of the Goods or Services express or implied Statutory or otherwise are excluded save where not capable of exclusion by Law.

## 8. FORCE MAJEURE

The Seller shall have no liability in respect of failure to deliver or perform or delay in the delivering or performing any obligations under the Contract due to causes outside the reasonable control of the Seller such as acts of God, fire, floods, war and civil disturbances or not, acts of Government, currency restriction, labour disputes, strikes, unavailability of materials or failure of supplier or subcontractor to deliver on time.

## 9. STORAGE

When delivery is delayed for reasons attributable to the Purchaser or its Agents, storage and other additional costs will be charged to the Purchaser and the Goods will be at the Purchaser's risk from the date of commencement as such. The Seller reserves the right to invoice the Goods at the original delivery date.

## 10. PATENT RIGHTS

- The sale of Goods and the publication of any information or technical data relating thereto does not imply freedom from patent registered design or other industrial property rights in respect of any particular application of the Goods.
- The Purchaser warrants that the designs and specifications supplied by it to the Seller will not involve the infringement of any patent registered design or other industrial property right in the manufacture and sale of the Goods by the Seller.
- The Purchaser undertakes to indemnify and keep indemnified the Seller against all royalties, claims, actions, demands, proceedings, losses and costs in connection with any infringement or alleged infringement of any patent, registered design or other industrial property right in the manufacture sale or application of the Goods, arising out of or in connection with the matters described in paragraphs a) and b) above provided that nothing in the Clause shall operate to the prejudice of the Statutory undertakings as to title, etc. contained in Section 12 Sale of Goods Act 1893 as amended.

## 11. PURCHASER'S SAMPLES & DRAWINGS

Drawings and samples supplied by the Purchaser for the Contract shall be suitable quality and shall be provided free of charge in sufficient quantities and at the times required by the Seller. Any delay in such drawings and samples provided by the Purchaser shall not entitle the Purchaser to rescind the Contract, reject the Goods, make deductions from the Contract price or claim damages in respect of such defect and the Purchaser shall indemnify and keep indemnified the Seller from and against all actions, demands, claims, proceedings, losses of costs arising from the supply of defective drawings and samplers by the Purchaser.

## 12. ORIGIN OF GOODS

The Seller makes no representation and gives no warranty in respect of the sources of origin of manufacture or production of the Goods or any part thereof.

## 13. DOCUMENTS

The Seller will supply one invoice and one Advice Note for each consignment of Goods, notwithstanding that the consignment may compose more than one package.

## 14. CANCELLATION AND RETURN OF GOODS

- Cancellation will not be accepted for non-stock items. If the Seller agrees to accept cancellation of an order for stock items, a minimum charge of 20% of the total order price may be made.
- No returns are permitted without the Seller's previous consent.
- If the Seller agrees to accept returns they may be returned at the Purchasers expense in the condition in which they were supplied to a minimum charge of 20% of the total order price.

## 15. LAW

Any question of law relating to these Conditions or agreed amendments thereof or the terms of any Contract between the Purchaser and the Seller shall be determined in all respects by the Laws of England.

UK Registered Company No. 5058286

Adequate Main and Earth connections are provided, it is the installer's responsibility to ensure these are adequately tightened when the system is being commissioned.



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