

# electrium



**Crabtree**

Distribution Boards  
& Devices



electrium

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100  
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Certificate Number 18828  
ISO 9001, ISO 14001, ISO 45001



2013-RTL-L4-75  
2013-RTL-L4-36

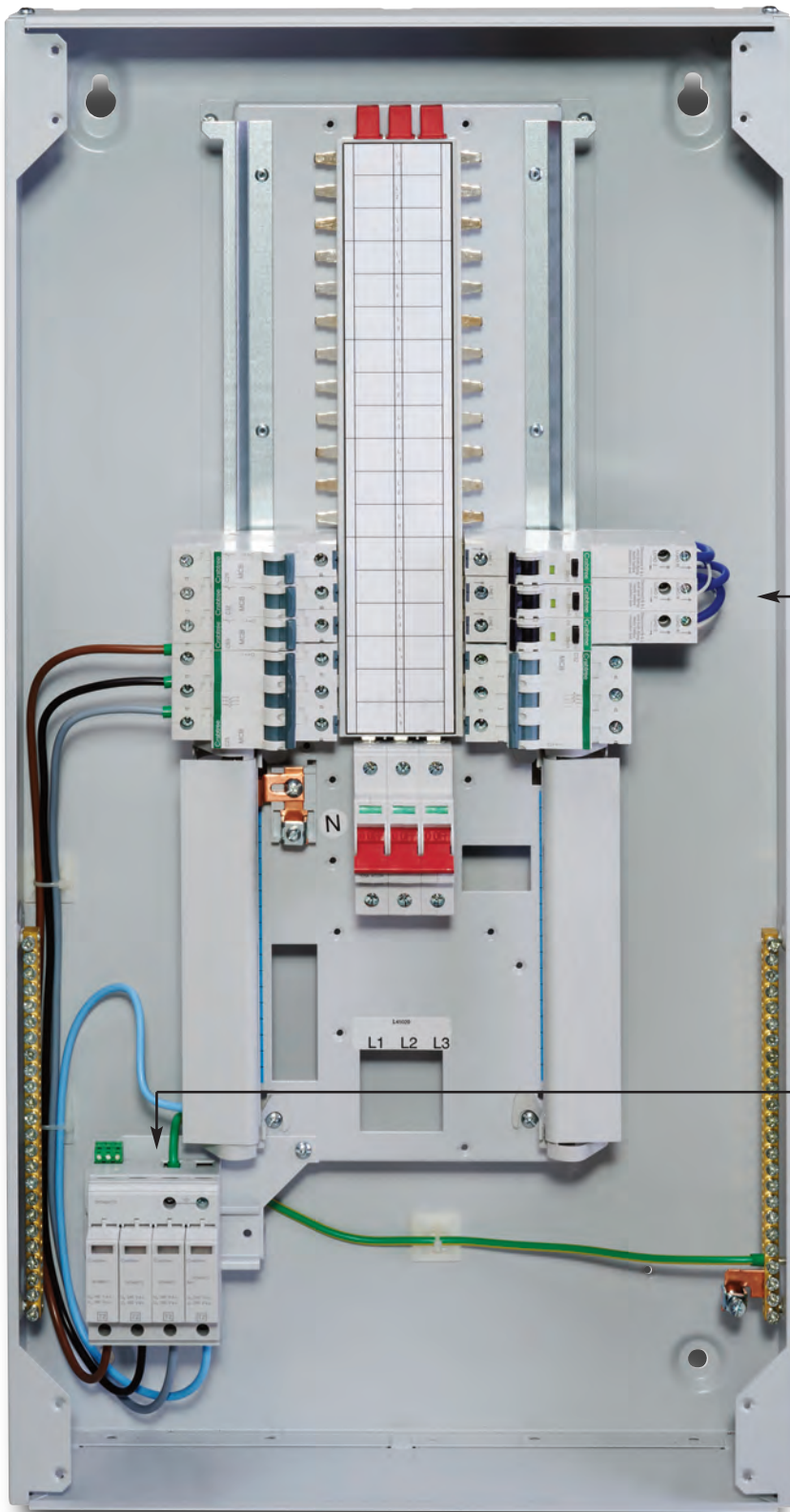


Testing Laboratory No. 1460  
Testing Laboratory No. 2003

As a leading manufacturer of electrical installation equipment, Crabtree is committed to the continual improvement of all quality assurance procedures and performance.



# LOADSTAR DISTRIBUTION BOARDS & DEVICES



## **Regulation 411.3.3**

Now requires all socket outlets (to a max rating of 32A) to be protected by a 30mA device in every installation where the socket outlets are used by ordinary persons, disabled persons or children. No exceptions are permitted.

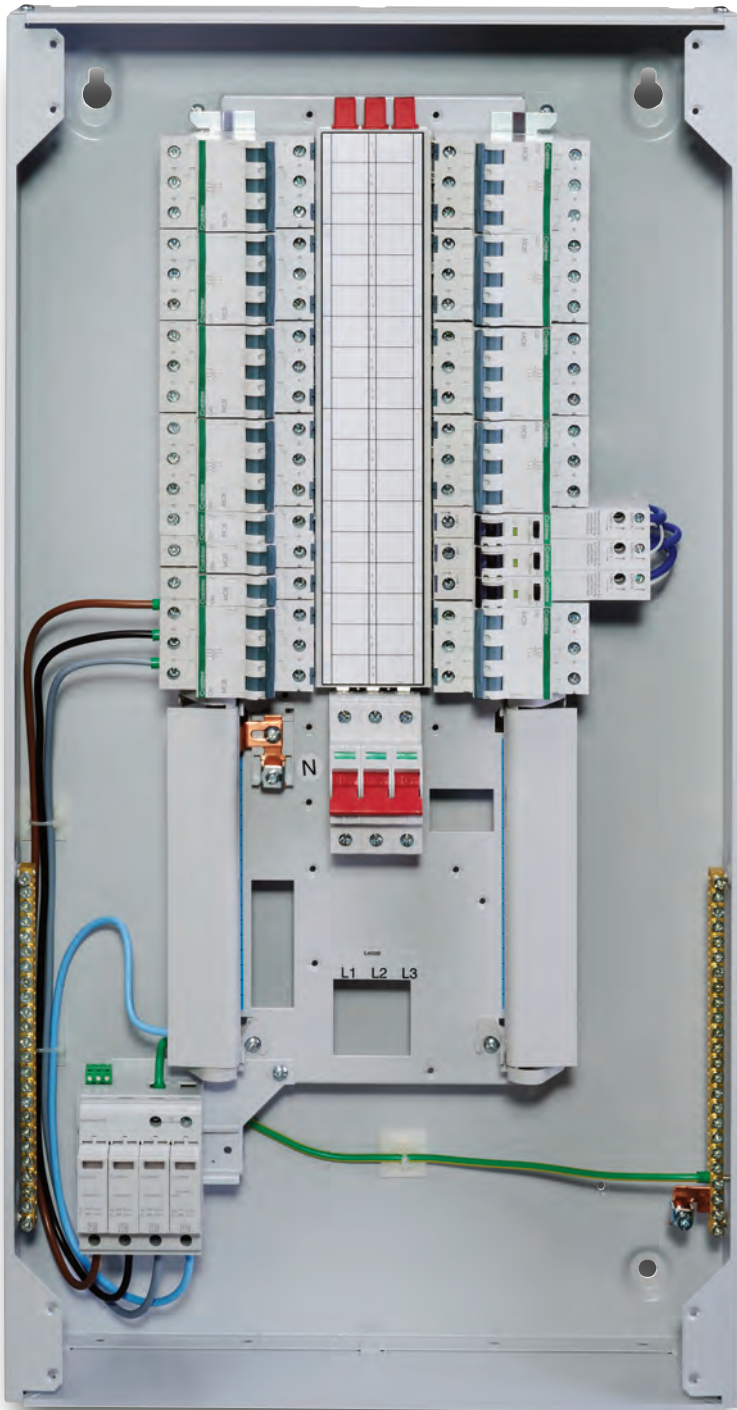
Crabtree MCB distribution boards accept 10kA 30mA single pole RCBOs.

## **Regulation 443.4.1**

Now states that transient overvoltage protection must be provided where the consequence of overvoltage can cause serious injury to, or loss of, human life, the failure of a safety service, significant financial or data loss. No exceptions are permitted in these cases.

Transient overvoltage is also required in all other cases too. Unless the owner of the installation declares its not required and losses are tolerable and they accept the risks and consequences.

# LOADSTAR DISTRIBUTION BOARDS & DEVICES



- MCBs 3A - 63A
- 80A MCBs available for use in 250A Distribution Boards
- B, C & D Trip Characteristics
- Single, Double and Triple Pole
- 18mm Modular Width
- 10kA in accordance with BS EN 60898-1
- 125A or 250A TP&N Distribution Boards
- From 4 TP ways to 24 TP ways
- Three Pole or Four Pole Incomers
- Switch Disconnecter or MCCB Incomers
- Direct Connect Incomer Kit
- Integral Type 2 Surge Protection Kits
- Integral Meter options
- Add-on Meter options
- Lighting & Power - Split Metered Boards
- Removable Gland Plates top and bottom
- Raised Pan Assembly
- Removeable Pan Assembly
- Extension Enclosures for DIN Devices
- Fully type tested to IEC/BS EN 61439-3



# LOADSTAR DISTRIBUTION BOARDS



18SN14L

## 100A SPN TYPE A DISTRIBUTION BOARDS COMPLETE WITH 100A DP SWITCH DISCONNECTOR

No of Ways	H	W	D	List No.
5	235	188	128	<b>18SN05L</b>
8	235	242	128	<b>18SN08L</b>
11	235	293	128	<b>18SN11L</b>
14	235	343	128	<b>18SN14L</b>
16	235	437	128	<b>18SN16L</b>
19	235	437	128	<b>18SN19L</b>

## SURGE PROTECTION DEVICE

Description	List No
Single Module Type 2 SPD	<b>CRT2SPD3W/1</b>

## REPLACEMENT PLUG-IN CARTRIDGE

Description	List No
Replacement Plug-in Cartridge for <b>CRT2SPD3W/1</b>	<b>CRT2SPD/P</b>

- Suitable for all Single Phase 3 Wire Systems TN-C-S, TN-S and TT
- Combined Metal Oxide Varistor (L1 & N) and Gas Discharge Tube (N & E)
- Clear Indication of device status
- Fitted with remote signalling contact
- Suitable for use in Main Switch, Split Load & Hi-Integrity consumer unit configurations
- Not suitable for Dual RCD configurations

Alternative SPD products are available for Dual RCD consumer unit installations. Please contact



**Type 2 Surge Arresters** provide protection against overvoltage originating from switching and the secondary effects of lightning strikes. These devices will discharge current having an 8/20µs waveform and provide a low voltage protection level of ≤1.3kV (Up) for sensitive electronic equipment exceeding the requirements for category II equipment identified within table 44.3 (BS7671).



18LS08L

## 125A TP&N TYPE B DISTRIBUTION BOARD

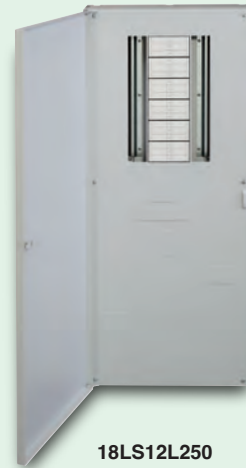
No of Ways	H	W	D	Surface List No.
4	490	430	155	<b>18LS04L</b>
6	570	430	155	<b>18LS06L</b>
8	650	430	155	<b>18LS08L</b>
12	815	430	155	<b>18LS12L</b>
16	895	430	155	<b>18LS16L</b>
20	1000	430	155	<b>18LS20L</b>
24	1140	430	155	<b>18LS24L</b>

- Accepts 3A to 63A MCBs

# LOADSTAR 125A INCOMING OPTIONS



**100SW2**



**18LS12L250**

## LOADSTAR 125A INCOMING OPTIONS

Order Device and Kit (where required) separately.

Switch Disconnecter, modular (50mm <sup>2</sup> )	Device	Kit
40A TP	<b>40SW3</b>	
63A TP	<b>63SW3</b>	None
100A TP	<b>100SW3</b>	Required
125A TP	<b>125SW3</b>	
40A 4P	<b>40SW4</b>	<b>18LK125</b>
63A 4P	<b>63SW4</b>	<b>18LK125</b>
100A 4P	<b>100SW4</b>	<b>18LK125</b>
125A 4P	<b>125SW4</b>	<b>18LK125</b>
100A DP (TP to SP conversion)	<b>100SW2</b>	<b>18LKTPSP</b>
125A DP (TP to SP conversion)	<b>125SW2</b>	<b>18LKTPSP</b>

Special oversize Incoming Cable connection kit for use with TP Sw Disc above.

Accommodate up to 120mm <sup>2</sup> TP Sw Disc only.	<b>18LKD120</b>
Direct Connection	Kit
Incoming Cable Connection (50mm <sup>2</sup> )	<b>18LKD50</b>
Outgoing Cable Connection Kit/Shroud (50mm <sup>2</sup> ) (Set of 3 Cable Clamps + Shroud)	<b>18LKD70</b>

## 250A TPN TYPE B DISTRIBUTION BOARDS SURFACE

No of Ways	H	W	D	List No.
4	768	430	155	<b>18LS04L250</b>
6	822	430	155	<b>18LS06L250</b>
8	876	430	155	<b>18LS08L250</b>
12	984	430	155	<b>18LS12L250</b>
16	1092	430	155	<b>18LS16L250</b>
20	1200	430	155	<b>18LS20L250</b>
24	1308	430	155	<b>18LS24L250</b>

- Accepts 3A to 80A MCBs

## SWITCH DISCONNECTORS DIRECT CONNECTION & MCCB INCOMERS

Switch Disconnecter	List No
250A TP	<b>250LTPSD</b>
250A 4P	<b>250L4PSD</b>

- 120mm<sup>2</sup> Terminal capacity

Direct Connection	List No
250A 3P	<b>250LDCK</b>

- 120mm<sup>2</sup> Terminal capacity
- All Incomers are supplied complete with mounting kit, links & fixing screws

MCCB	List No
250A 3P MCCB	<b>250LTPMB</b>
250A 4P MCCB	<b>250L4PMB</b>

- 120mm<sup>2</sup> terminal capacity
- All Incomers are supplied with mounting kit, links & fixing screws
- BS EN 60947-2

# LOADSTAR 250A DISTRIBUTION BOARDS



**LS125SPKITL**

## INTEGRAL SURGE PROTECTION KIT FOR TYPE B MCB DISTRIBUTION BOARD

Description	List No.
125A Loadstar Surge Protection Kit	<b>LS125SPKITL</b>
250A Loadstar Surge Protection Kit	<b>LS250SPKITL</b>

Notes: 125A options utilise bottom LH way for protective MCB  
250A options utilise bottom RH way for protective MCB

- Type 2 SPD
- Supplied with MCB for SPD protection
- Pre-cut & ferruled cable looms
- Custom fabricated bracket for easy install into Crabtree 'L' Distribution Boards
- BS EN 61643-11
- Complies with BS7671: Clause 443.4
- Please note that only one of either an integral incoming meter or integral surge protection device can be installed into a distribution board

## TECHNICAL DATA

<b>Supplying MCB</b>	Icn 10kA C 25A TP
<b>Overvoltage Protection Device</b>	CSPD7464-1 TNS 4P Remote Signalling Option Type 2 – Surge Arrester
<b>Cable Connections Included</b>	Yes

## STANDALONE SPD DEVICES

Description	List No.
Type 1 SPD for 1P 3-wire Systems (4 Module)	<b>CSPD7412-1</b>
Type 1 SPD for 3P 5-wire Systems (8 Module)	<b>CSPD7414-1</b>
Type 1+2 SPD for 1P 3-wire Systems (4 Module)	<b>CSPD7442-1</b>
Type 1+2 SPD for 3P 5-wire Systems (8 Module)	<b>CSPD7444-1</b>
Type 2 SPD for 1P 3-wire Systems (2 Module)	<b>CSPD7462-1</b>
Type 2 SPD for 3P 5-wire Systems (4 Module)	<b>CSPD7464-1</b>

- Standalone SPD devices which require an MCB in the board should be mounted in an 18DIN18 enclosure



**18AS4**

## DINRAIL, ROWBOARD, SERVICE CENTRES

Rowboard:

- Suitable for 'Stand-Alone' use or 'Add-On' above surface TP&N board.
- Each row will accommodate 18 off 18mm module wide DIN Rail mounted devices.
- Main Neutral and Earth Bars included, along with provision for additional 'Mini' Neutral and Earth bars.

No of Rows	H	W	D	Surface
1	245	430	155	<b>18AS1</b>
2	410	430	155	<b>18AS2</b>
3	570	430	155	<b>18AS3</b>
4	735	430	155	<b>18AS4</b>
5	815	430	155	<b>18AS5</b>

Service Centre/DIN Rail Board:

- 'Add-On' for fixture above or below surface 'L' Type board.
- Equipped with easily removed DIN Rail to accommodate 18 or 36, 18mm module wide DIN Rail mounted devices
- 245mm & 410mm high

18 Module	<b>18DIN18</b>
36 Module (2 Rows of 18)	<b>18DIN36</b>

Cable Spreader Box

Add-on Enclosure, 245mm high, Blank front cover plate	<b>18SB</b>
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## INDIVIDUAL ENCLOSURES

	H	W	D	Insulated
2 Modules wide	152	63	63	<b>18GP2S</b>
4 Modules wide	152	79	61	<b>18GP4S</b>
	H	W	D	Metalclad
2 Modules wide	225	90	67	<b>18GP2M</b>
4 Modules wide	317	136	82	<b>18GP4M</b>





**18LPV0604SL**

## 125A TP&N LIGHTING & POWER DISTRIBUTION BOARDS WITH STANDARD METERS

No of TP Ways	H	W	D	List No.
6 + 4	1303	430	155	<b>18LPV0604SL</b>
8 + 6	1463	430	155	<b>18LPV0806SL</b>
8 + 8	1543	430	155	<b>18LPV0808SL</b>
12 + 4	1548	430	155	<b>18LPV1204SL</b>
12 + 6	1628	430	155	<b>18LPV1206SL</b>
12 + 8	1708	430	155	<b>18LPV1208SL</b>
12 + 12	1873	430	155	<b>18LPV1212SL</b>
16 + 6	1708	430	155	<b>18LPV1606SL</b>
16 + 8	1788	430	155	<b>18LPV1608SL</b>
16 + 12	1953	430	155	<b>18LPV1612SL</b>

- Suitable for use with switch disconnecter, RCD or direct connection incomer arrangement
- MCB distribution boards are compatible with 10 kA MCBs & RCBOs.
- Comes complete with a 2 channel meter

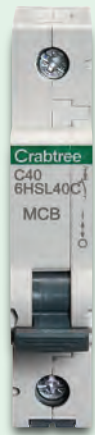


**18LPV0806ML**

## 125A TP&N LIGHTING & POWER DISTRIBUTION BOARDS WITH MID METERS

No of TP Ways	H	W	D	List No.
8 + 6	1463	430	155	<b>18LPV0806ML</b>
12 + 8	1708	430	155	<b>18LPV1208ML</b>
16 + 12	1953	430	155	<b>18LPV1612ML</b>

- Suitable for use with switch disconnecter, RCD or direct connection incomer arrangement
- MCB distribution boards are compatible with 10 kA MCBs & RCBOs.



6HSL40C



6HDL32B

## SINGLE POLE MCBs - 10kA

in accordance with BS EN 60898-1

RATING AMPS	CHAR B	CHAR C	CHAR D
3A	-	<b>6HSL03C</b>	-
6A	<b>6HSL06B</b>	<b>6HSL06C</b>	<b>6HSL06D</b>
10A	<b>6HSL10B</b>	<b>6HSL10C</b>	<b>6HSL10D</b>
16A	<b>6HSL16B</b>	<b>6HSL16C</b>	<b>6HSL16D</b>
20A	<b>6HSL20B</b>	<b>6HSL20C</b>	<b>6HSL20D</b>
25A	<b>6HSL25B</b>	<b>6HSL25C</b>	<b>6HSL25D</b>
32A	<b>6HSL32B</b>	<b>6HSL32C</b>	<b>6HSL32D</b>
40A	<b>6HSL40B</b>	<b>6HSL40C</b>	<b>6HSL40D</b>
50A	<b>6HSL50B</b>	<b>6HSL50C</b>	<b>6HSL50D</b>
63A	<b>6HSL63B</b>	<b>6HSL63C</b>	<b>6HSL63D</b>

### 80A MCB for use in 250A Distribution Boards ONLY

80A	-	<b>6HSL80C</b>	-
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- Trip Characteristic B (3–5In), C (5–10In), D (10–20In)
- Short circuit duty rating: Trip Char. B/C/D 10000A 240V/415V 50Hz
- Terminal capacity up to 35mm<sup>2</sup> cable
- 18mm modular width

## DOUBLE POLE MCBs - 10kA

in accordance with BS EN 60898-1

RATING AMPS	CHAR B	CHAR C	CHAR D
6A	<b>6HDL06B</b>	<b>6HDL06C</b>	<b>6HDL06D</b>
10A	<b>6HDL10B</b>	<b>6HDL10C</b>	<b>6HDL10D</b>
16A	<b>6HDL16B</b>	<b>6HDL16C</b>	<b>6HDL16D</b>
20A	<b>6HDL20B</b>	<b>6HDL20C</b>	<b>6HDL20D</b>
25A	<b>6HDL25B</b>	<b>6HDL25C</b>	<b>6HDL25D</b>
32A	<b>6HDL32B</b>	<b>6HDL32C</b>	<b>6HDL32D</b>
40A	<b>6HDL40B</b>	<b>6HDL40C</b>	<b>6HDL40D</b>
50A	<b>6HDL50B</b>	<b>6HDL50C</b>	<b>6HDL50D</b>
63A	<b>6HDL63B</b>	<b>6HDL63C</b>	<b>6HDL63D</b>
80A	-	<b>6HDL80C</b>	-

- Not suitable for use within B Type Distribution Boards
- Trip Characteristic B (3–5In), C (5–10In), D (10–20In)
- Short circuit duty rating: Trip Char. B/C/D 10000A 240V/415V 50Hz
- Terminal capacity up to 35mm<sup>2</sup> cable
- 18mm modular width
- Not for use within standard type A or B distribution boards



**6HTL20D**

## TRIPLE POLE MCBs - 10kA

in accordance with BS EN 60898-1

**RATING**

AMPS	CHAR B	CHAR C	CHAR D
6A	<b>6HTL06B</b>	<b>6HTL06C</b>	<b>6HTL06D</b>
10A	<b>6HTL10B</b>	<b>6HTL10C</b>	<b>6HTL10D</b>
16A	<b>6HTL16B</b>	<b>6HTL16C</b>	<b>6HTL16D</b>
20A	<b>6HTL20B</b>	<b>6HTL20C</b>	<b>6HTL20D</b>
25A	<b>6HTL25B</b>	<b>6HTL25C</b>	<b>6HTL25D</b>
32A	<b>6HTL32B</b>	<b>6HTL32C</b>	<b>6HTL32D</b>
40A	<b>6HTL40B</b>	<b>6HTL40C</b>	<b>6HTL40D</b>
50A	<b>6HTL50B</b>	<b>6HTL50C</b>	<b>6HTL50D</b>
63A	<b>6HTL63B</b>	<b>6HTL63C</b>	<b>6HTL63D</b>

**80A MCB for use in 250A Distribution Boards ONLY**

80A	-	<b>6HTL80C</b>	-
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- Trip Characteristic B (3–5In), C (5–10In), D (10–20In)
- Short circuit duty rating: Trip Char. B/C/D 10000A 240V/415V 50Hz
- Terminal capacity up to 35mm<sup>2</sup> cable
- 18mm modular width
- Not for use within standard type A distribution boards
- Suitable for use in standard type B distribution boards



**SINGLE MODULE RCBOs**

## RCBOs SINGLE MODULE - 30mA SENSITIVITY - 10kA

in accordance with BS EN 61009

**RATING**

AMPS	CHAR B	CHAR C
6A	<b>6HSR06/30B</b>	<b>6HSR06/30C</b>
10A	<b>6HSR10/30B</b>	<b>6HSR10/30C</b>
16A	<b>6HSR16/30B</b>	<b>6HSR16/30C</b>
20A	<b>6HSR20/30B</b>	<b>6HSR20/30C</b>
32A	<b>6HSR32/30B</b>	<b>6HSR32/30C</b>
40A	<b>6HSR40/30B</b>	<b>6HSR40/30C</b>
50A	<b>6HSR50/30B</b>	<b>6HSR50/30C</b>

- 18mm wide, suitable for use within Loadstar Distribution Boards 30mA sensitivity, 'B' or 'C' characteristic, unswitched Neutral
- Tail length 600mm
- Type A AC Waveform + Pulsating DC Waveform

## LONGTAIL RCBOs SINGLE MODULE - 30mA SENSITIVITY - 10kA

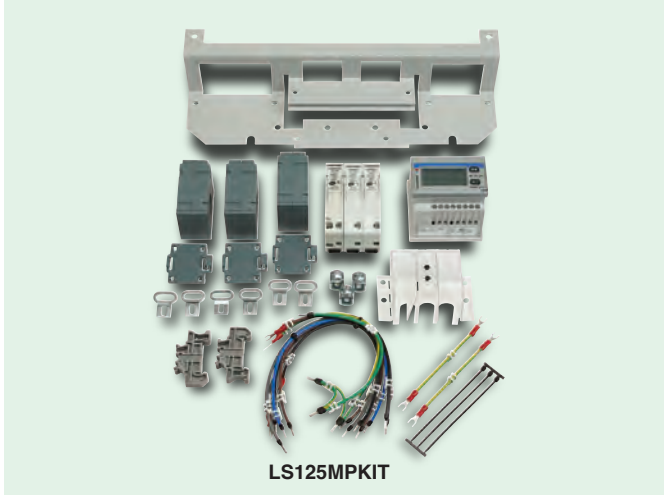
in accordance with BS EN 60898-1

**RATING**

AMPS	CHAR C
6A	<b>6HSR06/30C/LT</b>
10A	<b>6HSR10/30C/LT</b>
16A	<b>6HSR16/30C/LT</b>
20A	<b>6HSR20/30C/LT</b>
32A	<b>6HSR32/30C/LT</b>
40A	<b>6HSR40/30C/LT</b>
50A	<b>6HSR50/30C/LT</b>

- 18mm wide, suitable for use within Loadstar Distribution Boards 30mA sensitivity, 'B' or 'C' characteristic, unswitched Neutral
- We recommend using LT RCBOs on any circuit above way No.12 in a TPN distribution board
- Tail length 1200mm
- Type A AC Waveform + Pulsating DC Waveform

# LOADSTAR DISTRIBUTION BOARD METERING OPTIONS



## 125A & 250A INTEGRAL METER KITS

Integral meter kit suitable for mounting within 125A & 250A Type B, L Range Distribution Boards\* Includes a Digital energy meter, three current transformers, fuses, wiring looms and mounting base plate.

Description	LIST No
125A Integral Meter Kit	<b>LS125MPKIT</b>
125A Integral Meter Kit (MID)	<b>LS125MIDMPKIT</b>
250A Integral Meter Kit	<b>LS250MPKIT</b>
250A Integral Meter Kit (MID)	<b>LS250MIDMPKIT</b>

\*Integral meter kits are designed for use in conjunction with modular three pole incoming options only. For other incoming options select the 'add-on' assembly seen below.

- Part L2 of the Building Regulations, covering the energy efficiency requirements of new buildings other than domestic dwellings, recognises the essential role that is played by metering. Correctly installed meters provide information that is necessary to the implementation of an effective energy management plan
- MID (Measuring Instruments Directive) and standard options available.
- Additionally lighting and power options are available for distribution boards
- Please note that only one of either an integral incoming meter or integral surge protection device can be installed into a distribution board



## LIGHTING AND POWER METER KITS

Description	LIST No
125A Vertical Lighting and Power Kit	<b>18ML125VLPK</b>

- Suitable for use with 2 x 125A Type B, L Range Distribution Boards, one mounted above the other. The kit consists of 3 phase and neutral connection cables, cable clamps and shrouding. 125A integral meter kits to be ordered separately
- Please note the maximum 3 phase load on the upper board should not exceed 100A
- Provides separate lighting and combined load readings. Power load calculated by subtraction
- For use with Loadstar or Polestar TP&N distribution boards



**18ML125**

### 125A ENCLOSED SINGLE METER PACKS

245mm high 'add on' assemblies suitable for mounting directly beneath any surface 125A type B Distribution Board. Includes a digital energy meter, three current transformers and all associated fuses and wiring. Enclosures have a slotted front plate and hinged door with catch offering a lockable option.

Description	LIST No
125A 'Add-on Meter Pack	<b>18ML125</b>



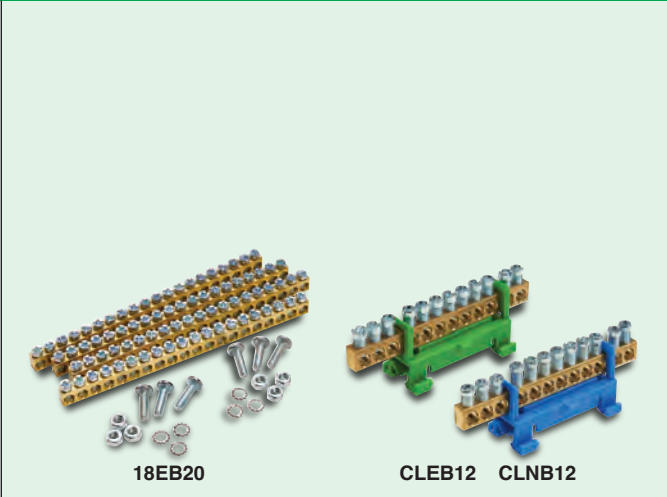
**18ML125LP**

### ENCLOSED 125A & 250A DUAL METER PACKS

Add-on assemblies suitable for mounting directly beneath two surface 125A/250A Type B Distribution Boards. Includes two digital energy meters, six current transformers, all associated fuses & wiring and flexible interconnections to Distribution Boards. Provides single point of isolation while dual meters allow for separate monitoring of **Light** and small **Power** energy consumption. Suitable for use with a 3ph 4 wire unbalanced system

Description	125A	250A
Height	410mm	740mm
Add-on Dual Meter Pack	<b>18ML125LP</b>	<b>18MH250LP</b>

- For use with IP3X Type B Distribution Boards
- Provides separate lighting and power readings. Combined load calculated by addition



## GENERAL LOADSTAR ACCESSORIES TP & SP

Description	List No
Cylinder Lock & Key	<b>16CL</b>
MCB Locking device (excl. lock)	<b>MCBLD</b>
Padlock & Key for use with MCBLD	<b>748</b>
Clean Earth Bar Kit (4-12 way = 2 kits, 16-24 way = 4 kits)	<b>18CEBK</b>
Blanking Strip - 6 Individual 1 module wide pieces	<b>18BP1/6</b>
Blanking Strip - 12 Individual 1 module wide pieces	<b>18BP1/12</b>
Blanking Strip - 4 lengths each 3 modules wide	<b>18BP3/4</b>
Blanking Strip - 2 lengths each 12 modules wide	<b>18BP12/2</b>
Busbar insulators (pack of 5)	<b>18BB1L</b>
Cable clamp assembly (70mm <sup>2</sup> ) - pack of 3	<b>17CC</b>
1 Module Width MCB Profile Blanking Piece	<b>18MBP1L</b>

- Previously manufactured DBs utilise 18CB1 blank pieces

## ADDITIONAL EARTH BAR KITS

Additional Earth Bars to fit TP Distribution Boards		List No
No of Ways		
4		<b>18EB04</b>
6		<b>18EB06</b>
8		<b>18EB08</b>
12		<b>18EB12</b>
16		<b>18EB16</b>
20		<b>18EB20</b>
24		<b>18EB24</b>
Earth and Neutral bar, 10mm <sup>2</sup> cable max, for use with DIN Rail		
	NEUTRAL	EARTH
7 Terminals	<b>CLNB07</b>	<b>CLEB07</b>
12 Terminals	<b>CLNB12</b>	<b>CLEB12</b>
15 Terminals	<b>CLNB15</b>	<b>CLEB15</b>



**18R100/30/2**

### 2 POLE RCDs - TYPE AC

Rated current	Sensitivity	List No
100A	30mA	<b>18R100/30/2</b>
100A	100mA	<b>18R100/100/2</b>

### 2 POLE RCDs TIME DELAY - TYPE AC

Rated current	Sensitivity	List No
100A	100mA Time Delay	<b>18R100/100/2TD</b>



**18EB20**

### 4 POLE RCDs - TYPE AC

Rated current	Sensitivity	List No
40A	30mA	<b>18R40/30/4</b>
63A	30mA	<b>18R63/30/4</b>
100A	30mA	<b>18R100/30/4</b>
40A	100mA	<b>18R40/100/4</b>
63A	100mA	<b>18R63/100/4</b>
100A	100mA	<b>18R100/100/4</b>
63A	300mA	<b>18R63/300/4</b>
100A	300mA	<b>18R100/300/4</b>

### 4 POLE RCDs TIME DELAY - TYPE AC

Rated current	Sensitivity	List No
100A	100mA Time Delay	<b>241/100TD</b>

# POLESTAR COMPACT MCBs, RCBOs & DISTRIBUTION BOARDS

## Devices

- MCBs 6A - 63A
- B, C and D Trip Characteristics
- Single, Double and Triple Pole
- 18mm modular width
- 16kA in accordance with BS EN 60898-1
- RCBOs 6A - 50A
- Type AC
- C Trip Characteristic
- 18mm modular width
- 16kA in accordance with BS EN 61009

## System

- Type A Single Row Distribution Boards  
125A SPN
- Type B Distribution Boards  
125A TPN  
250A TPN
- IP 3X, 41 and 66

## Incoming Options

- Switch Disconnecters up to 250A
- 4P RCCBs up to 100A
- 3P & 4P MCCBs up to 200A
- Integral Metering Options
- Built-in or Add-on DIN Rail / Service Centres
- RAL 7035 Grey Powder Coat Finish
- Designed and manufactured in the UK, in accordance with BS EN 61439-3
- Customised Factory Built Assembly Available







# POLESTAR COMPACT IP3X 125A DISTRIBUTION BOARDS



**18PSC19/21A**

## 125A SPN TYPE A DISTRIBUTION BOARDS COMPLETE WITH 125A DP SWITCH DISCONNECTOR INCOMER

No of Ways	H	W	D	List No.
5	255	188	122	<b>18PSC05/21A</b>
8	255	242	122	<b>18PSC08/21A</b>
11	255	242	122	<b>18PSC11/21A</b>
14	255	343	122	<b>18PSC14/21A</b>
19	255	438	122	<b>18PSC19/21A</b>
28	500	343	122	<b>18PSC28/21A</b>

- 125A Busbar. 28 way distribution board supplied in 2 bank format

## COMPLETE WITH 80A 30mA RCCB INCOMER

No of Ways	H	W	D	List No.
5	261	188	131	<b>18PSC05/33A</b>
8	261	242	131	<b>18PSC08/33A</b>
11	261	293	131	<b>18PSC11/33A</b>

## COMPLETE WITH 80A 100mA RCCB INCOMER

No of Ways	H	W	D	List No.
5	261	188	131	<b>18PSC05/31A</b>
8	261	242	131	<b>18PSC08/31A</b>
11	261	293	131	<b>18PSC11/31A</b>

## COMPLETE WITH DUAL RCCB SPLIT LOAD INCOMERS

No of Ways	H	W	D	List No.
4+6	261	343	131	<b>18PSC10/S413A</b>
5+5	261	343	131	<b>18PSC10/S513A</b>
6+4	261	343	131	<b>18PSC10/S613A</b>

- 125A double pole main switch control of all MCB ways
- Final circuit additional protection by two 80A 30mA RCCBs



**18PSC08MR**

## 125A TPN TYPE B DISTRIBUTION BOARDS 'METER READY' SURFACE

No of Ways	H	W	D	List No.
4	490	430	155	<b>18PSC04MR</b>
6	570	430	155	<b>18PSC06MR</b>
8	650	430	155	<b>18PSC08MR</b>
12	815	430	155	<b>18PSC12MR</b>
16	895	430	155	<b>18PSC16MR</b>
20	1000	430	155	<b>18PSC20MR</b>
24	1140	430	155	<b>18PSC24MR</b>

- 50mm<sup>2</sup> Terminal capacity
- Optional integral meter ready facility available as standard

# POLESTAR COMPACT IP3X 125A DISTRIBUTION BOARDS



## 125A TPN DISTRIBUTION BOARD INCOMER OPTIONS

Order device and kit (where required) separately

Switch Disconnecter	Device	Kit
125A 2P	<b>1252SD</b>	<b>18PSC2PLK</b>
125A 3P	<b>1253SD</b>	not required
125A 4P	<b>1254SD</b>	<b>18PSC4PLK</b>

Direct Connection	Device	Kit
125A 3P	<b>125DCB</b>	not required

• 50mm<sup>2</sup> Terminal capacity. IEC/EN 60947-3

Residual Current Circuit Breakers	Device	Kit
100A 4P 30mA	<b>241/030</b>	<b>18PSC4PLK</b>
100A 4P 100mA	<b>241/100</b>	<b>18PSC4PLK</b>
100A 4P 100mA TD	<b>241/100TD</b>	<b>18PSC4PLK</b>
100A 4P 300mA	<b>241/300</b>	<b>18PSC4PLK</b>
100A 4P 300mA TD	<b>241/300TD</b>	<b>18PSC4PLK</b>

• Type AC 35mm<sup>2</sup> Terminal capacity BS EN 61008

## INTEGRAL SURGE PROTECTION KIT FOR 250A TYPE B MCB DISTRIBUTION BOARD

Description	List No.
125A Polestar Compact Surge Protection Kit	<b>18PSC125SP</b>
250A Polestar Compact Surge Protection Kit	<b>18PSC250SP16</b>

Notes: 125A options utilise bottom LH way for protective MCB  
250A options utilise bottom RH way for protective MCB

- Type 2 SPD
- Supplied with MCB for SPD protection
- Pre-cut & ferruled cable looms
- Custom fabricated bracket for easy install into Crabtree 'MR' Distribution Boards
- BS EN 61643-11
- Ready for BS7671 18th Edition: Clause 443.4

<b>18PSC250SP16</b>	Crabtree Polestar Compact
<b>Supplying MCB</b>	Icu 16kA C 32A TP
<b>Overvoltage Protection Device</b>	CSPD7464-1** TNS 4P Remote Signalling Option Type 2 – Surge Arrester
<b>Cable Connections Included</b>	Yes

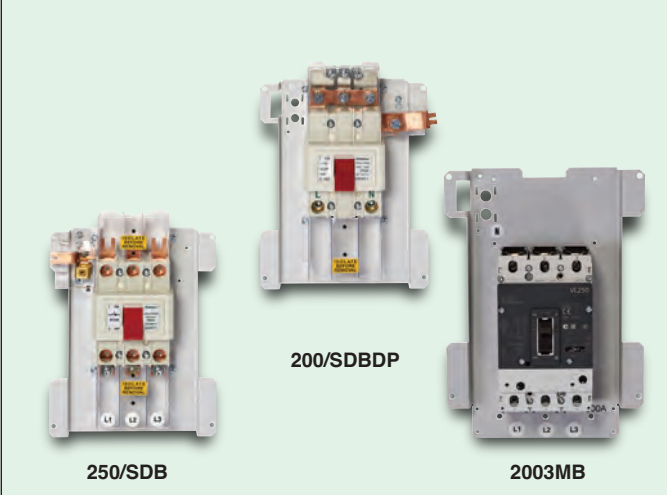
# POLESTAR COMPACT IP3X 250A DISTRIBUTION BOARDS



18PSC212MR

## 250A TPN TYPE B DISTRIBUTION BOARDS 'METER READY' SURFACE

No of Ways	H	W	D	List No.
4	768	430	155	<b>18PSC204MR</b>
6	822	430	155	<b>18PSC206MR</b>
8	876	430	155	<b>18PSC208MR</b>
12	984	430	155	<b>18PSC212MR</b>
16	1092	430	155	<b>18PSC216MR</b>
20	1200	430	155	<b>18PSC220MR</b>
24	1308	430	155	<b>18PSC224MR</b>



250/SDB

200/SDBDP

2003MB

## SWITCH DISCONNECTORS AND DIRECT CONNECTION

Switch Disconnector	List No
250A 3P*	<b>250/SDB</b>
200A 2P	<b>200/SDBDP</b>

- 150mm<sup>2</sup> Terminal capacity
- BS EN 60947-3, IEC 60947-3

\* Derated to 225A when used as an incomer to MCB Distribution Boards

Direct Connection	List No
250A 3P	<b>250/DCB</b>

- 120mm<sup>2</sup> Terminal capacity
- All Incomers are supplied complete with mounting kit, links & fixing screws

## MOULDED CASE CIRCUIT BREAKERS

200A 3P	<b>2003MB</b>
200A 3P&N	<b>2004MB</b>

- Adjustable thermal 160 to 200A
- Adjustable magnetic 1000 to 2000A
- 185mm<sup>2</sup> terminal capacity
- All Incomers are supplied complete with mounting kit, links & fixing screws
- IEC 60947-2, BS EN 60947-2



**18PSCDIN18**

### DINRAIL SERVICE CENTRES

No of Ways	H	W	D	List No.
4	245	430	155	<b>18PSCDIN18</b>
6	410	430	155	<b>18PSCDIN36</b>

- Add-On for fixture above or below surface type B board.
- Equipped with easily removed DIN Rail to accommodate 18 or 36 18mm module wide DIN Rail mounted devices
- 245 & 410mm high



**18PSCAS3**

### ROWBOARD SERVICE CENTRES

Rowboard:

No of Rows	H	W	D	List No
1	245	430	155	<b>18PSCAS1</b>
2	410	430	155	<b>18PSCAS2</b>
3	570	430	155	<b>18PSCAS3</b>
4	735	430	155	<b>18PSCAS4</b>
5	815	430	155	<b>18PSCAS5</b>

- Suitable for Stand-Alone use or Add-On above surface type B board.
- Each row will accommodate 18 off 18mm module wide DIN Rail mounted devices.
- Main Neutral and Earth Bars included, along with provision for additional 'Mini' Neutral and Earth bars.

# POLESTAR COMPACT MCBs



**SINGLE POLE MCBs**

## SINGLE POLE MCBs - 16kA

in accordance with BS EN 60898-1

RATING	CHAR B	CHAR C	CHAR D
6A	<b>70B/06</b>	<b>70C/06</b>	<b>70D/06</b>
10A	<b>70B/10</b>	<b>70C/10</b>	<b>70D/10</b>
16A	<b>70B/16</b>	<b>70C/16</b>	<b>70D/16</b>
20A	<b>70B/20</b>	<b>70C/20</b>	<b>70D/20</b>
32A	<b>70B/32</b>	<b>70C/32</b>	<b>70D/32</b>
40A	<b>70B/40</b>	<b>70C/40</b>	<b>70D/40</b>
50A	<b>70B/50</b>	<b>70C/50</b>	<b>70D/50</b>
63A	<b>70B/63</b>	<b>70C/63</b>	<b>70D/63</b>

- Trip Char. (3–5In), C (5–10In), D (10–20In)
- Short circuit duty rating: Trip Char. B/C/D 16000A 240V/415V 50Hz
- Terminal capacity up to 35mm<sup>2</sup> cable
- 18mm modular width



**DOUBLE POLE MCBs**

## DOUBLE POLE MCBs - 16kA

in accordance with BS EN 60898-1

RATING	CHAR B	CHAR C	CHAR D
6A	<b>72B/06</b>	<b>72C/06</b>	<b>72D/06</b>
10A	<b>72B/10</b>	<b>72C/10</b>	<b>72D/10</b>
16A	<b>72B/16</b>	<b>72C/16</b>	<b>72D/16</b>
20A	<b>72B/20</b>	<b>72C/20</b>	<b>72D/20</b>
32A	<b>72B/32</b>	<b>72C/32</b>	<b>72D/32</b>
40A	<b>72B/40</b>	<b>72C/40</b>	<b>72D/40</b>
50A	<b>72B/50</b>	<b>72C/50</b>	<b>72D/50</b>
63A	<b>72B/63</b>	<b>72C/63</b>	<b>72D/63</b>

- Trip Char. (3–5In), C (5–10In), D (10–20In) classification
- Short circuit duty rating: Trip Char. B/C/D 16000A 240V/415V 50Hz
- Terminal capacity up to 35mm<sup>2</sup> cable
- 18mm modular width
- Not for use within standard type A or B distribution boards

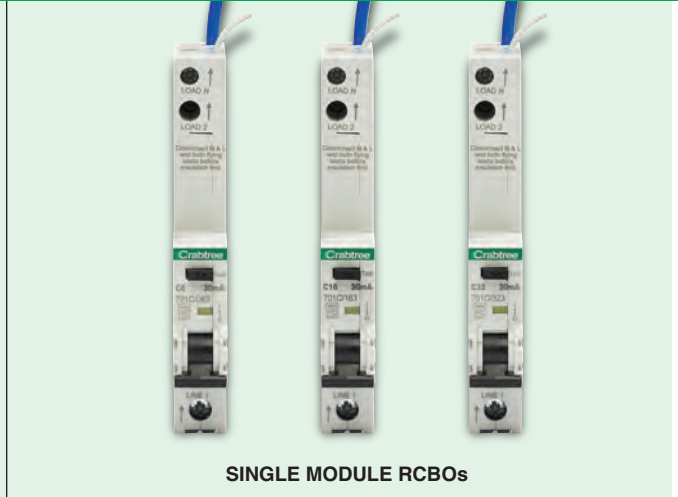


TRIPLE POLE MCBs

## TRIPLE POLE MCBs - 16kA

RATING AMPS	CHAR B	CHAR C	CHAR D
6A	<b>73B/06</b>	<b>73C/06</b>	<b>73D/06</b>
10A	<b>73B/10</b>	<b>73C/10</b>	<b>73D/10</b>
16A	<b>73B/16</b>	<b>73C/16</b>	<b>73D/16</b>
20A	<b>73B/20</b>	<b>73C/20</b>	<b>73D/20</b>
32A	<b>73B/32</b>	<b>73C/32</b>	<b>73D/32</b>
40A	<b>73B/40</b>	<b>73C/40</b>	<b>73D/40</b>
50A	<b>73B/50</b>	<b>73C/50</b>	<b>73D/50</b>
63A	<b>73B/63</b>	<b>73C/63</b>	<b>73D/63</b>

- BS EN 60898-1
- Type B (3–5In), C (5–10In), D (10–20In) classification
- Short circuit duty rating: Type B/C/D 16000A 240V/415V 50Hz
- Terminal capacity up to 35mm<sup>2</sup> cable
- 18mm modular width



SINGLE MODULE RCBOs

## RCBOs SINGLE MODULE - 30mA SENSITIVITY - 16kA

RATING AMPS	CHAR C
6A	<b>701C/063</b>
10A	<b>701C/103</b>
16A	<b>701C/163</b>
20A	<b>701C/203</b>
32A	<b>701C/323</b>
40A	<b>701C/403</b>
50A	<b>701C/503</b>

- 18mm wide, suitable for use within Polestar Compact Distribution Boards 30mA sensitivity, 'C' characteristic, unswitched Neutral
- Standard compliance BS EN 61009; IEC 1009
- Terminal capacity up to 16mm<sup>2</sup> cable
- Tail length 600mm
- Type A AC Waveform + Pulsating DC Waveform

## LONGTAIL RCBOs SINGLE MODULE - 30mA SENSITIVITY - 16kA

RATING AMPS	CHAR C
6A	<b>701C/063/LT</b>
10A	<b>701C/103/LT</b>
16A	<b>701C/163/LT</b>
20A	<b>701C/203/LT</b>
32A	<b>701C/323/LT</b>
40A	<b>701C/403/LT</b>
50A	<b>701C/503/LT</b>

- 18mm wide, suitable for use within Polestar Compact Distribution Boards 30mA sensitivity, 'C' characteristic, unswitched Neutral
- We recommend using LT RCBOs on any circuit above way No.12 in a TPN distribution board
- Tail length 1200mm
- Type A AC Waveform + Pulsating DC Waveform

# POLESTAR COMPACT METERING OPTIONS



## INTEGRAL METER KIT

Integral meter kits suitable for mounting within 125A or 250A type B **Meter Ready** (MR) Distribution Boards. Includes a Digital energy meter, three current transformers, fuses, wiring looms and mounting base plate.

Description	125A	250A
Integral Meter Kit	<b>125MP/50</b>	<b>250MP/120</b>
Integral Meter Kit (MID)	<b>125MP/50/MID</b>	<b>250MP/120/MID</b>

Description	200A
Integral Meter Kit 185mm <sup>2</sup> cable	<b>200MP/185</b>
Integral Meter Kit 185mm <sup>2</sup> cable (MID)	<b>200MP/185/MID</b>

- 125A Integral meter kits are designed for use in conjunction with modular three pole incoming options only. For other incoming options select the 'add-on' assembly seen below.
- 250A Meter kits accepting up to 185mm<sup>2</sup> cable will require the addition of a cable spreader box, 18PSCSB.
- Part L2 of the Building Regulations, covering the energy efficiency requirements of new buildings other than domestic dwellings, recognises the essential role that is played by metering. Correctly installed meters provide information that is necessary to the implementation of an effective energy management plan.
- Polestar Compact pulsed output and Modbus output metering options provide simple and straightforward solutions. Integral energy monitoring can be applied to all Meter Ready (MR) Distribution Boards, whilst two 'add-on' enclosures, single or dual, ensure all Polestar surface 125A & 250A type B Distribution Boards are catered for.



**18MPSC125**

## ENCLOSED SINGLE METER KIT

245mm high 'add on' assemblies suitable for mounting directly beneath any surface 125A type B Distribution Board. Includes a digital energy meter, three current transformers and all associated fuses and wiring. Enclosures have a slotted front plate and hinged door with catch offering a lockable option.

Description	125A
Add-on Meter Pack	<b>18MPSC125</b>





**18MPSC250LP**

**ENCLOSED DUAL METER KIT**

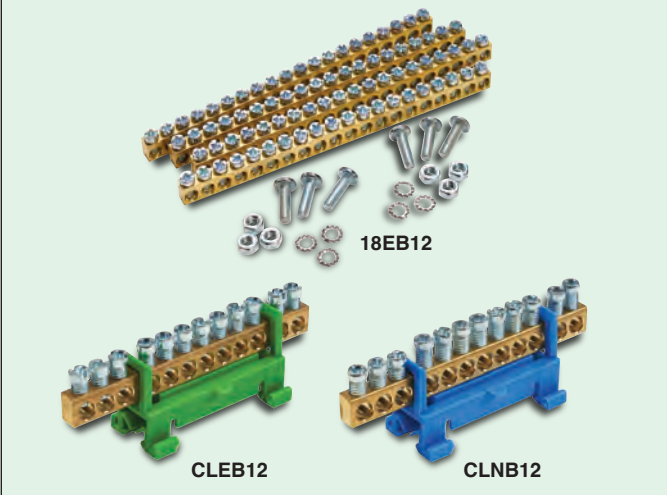
Add-on assemblies suitable for mounting directly beneath two surface 125A/250A type B Distribution Boards. Includes two digital energy meters, six current transformers, all associated fuses & wiring and flexible interconnections to Distribution Boards. Provides single point isolation while dual meters allow for separate monitoring of **Light** and small **Power** energy consumption.

Suitable for use with a 3ph 4 wire unbalanced system

Description	125A	250A
Height	410mm	740mm
'Add-on' Dual Meter Pack	<b>18MPSC125LP</b>	<b>18MPSC250LP</b>

- For use with IP3X Type B Distribution Boards
- Provides separate lighting and power readings. Combined load calculated by addition

# POLESTAR COMPACT ACCESSORIES



## GENERAL POLESTAR ACCESSORIES TP & SP

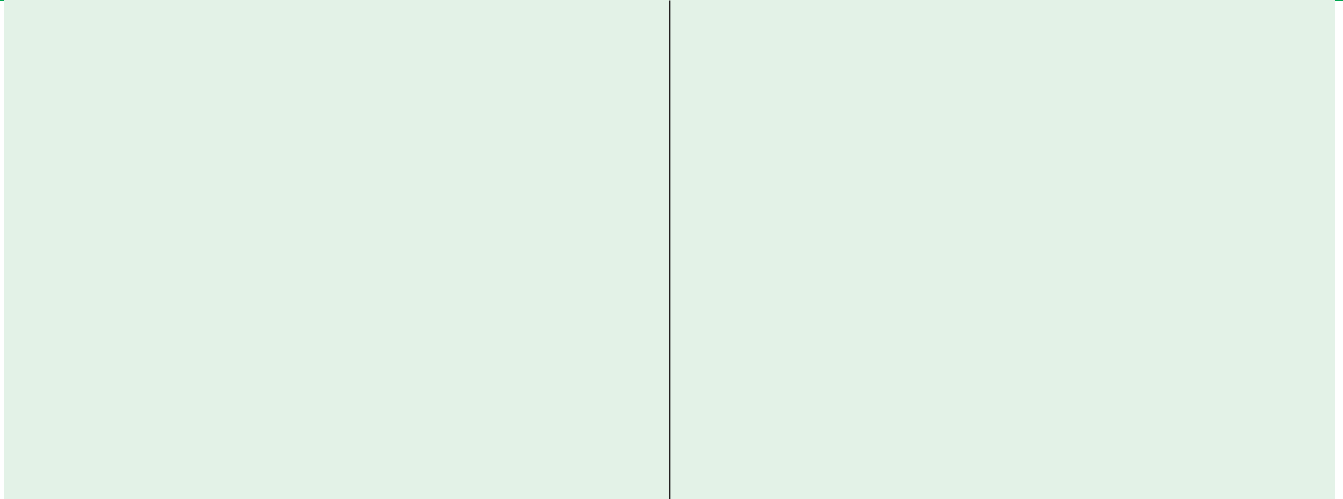
	List No
Cylinder Lock & Key	<b>16CL</b>
MCB Locking device (excl. lock)	<b>MCBLD</b>
Padlock & Key for use with MCBLD	<b>748</b>
Clean Earth Bar Kit type B Boards only. (4 to 12 way=2 kits, 16 to 24 way=4 kits).	<b>18CEBK</b>
SP MCB size Blank (shields MCB & Busbar Terminal)	<b>18PSCMBP1</b>
Blanking Strip - 6 Individual 1 module wide pieces	<b>18PSCBP1/6</b>
Blanking Strip - 4 lengths each 3 modules wide	<b>18PSCBP3/4</b>
Blanking Strip - 2 lengths each 12 modules wide	<b>18PSCBP12/2</b>
Clip In Blank SP Moulding	<b>CSBC</b>
Busbar cross connector insulator - pack of 9	<b>18PSCBB1</b>
Cable clamp assembly (70mm <sup>2</sup> ) - pack of 3	<b>17CC</b>

## ADDITIONAL EARTH BAR KITS

Additional Earth Bars to fit TP Distribution Boards			
No of Ways	List No	No of Ways	List No
4	<b>18EB04</b>	16	<b>18EB16</b>
6	<b>18EB06</b>	20	<b>18EB20</b>
8	<b>18EB08</b>	24	<b>18EB24</b>
12	<b>18EB12</b>		

Earth and Neutral bar, 10mm <sup>2</sup> cable max, for use with DIN Rail		
	NEUTRAL	EARTH
7 Terminals	<b>CLNB07</b>	<b>CLEB07</b>
12 Terminals	<b>CLNB12</b>	<b>CLEB12</b>
15 Terminals	<b>CLNB15</b>	<b>CLEB15</b>



# MODULAR CONTROL DEVICES

Modular devices can be used in DIN extension enclosures that can be attached to MCB distribution boards to create local control centres.

Alternatively these devices can be used for individual stand alone applications in dedicated enclosures.

## Silent Operation Contactors

- Ratings from 20A to 63A
- AC1 & AC3 applications
- Choice of pole configuration
- Choices for normally open & normally closed contact configurations
- Modular sizes to 3 modules

## Time switches

- Digital or Analogue options
- Single channel & two channel devices
- 16A rating

## Bell Transformers

- Transformers with output voltages of 6V, 8V or 12 Volt
- Choice of single or two module units







**CIK22-02    CIK24-40    CIK63-40**

## SILENT OPERATION INSTALLATION CONTACTORS

TYPE	Thermal Rating per Pole	Motor Rating AC3 (kW)		Pole Configuration		List No	
	AC1(A)	230V	400V	N/O	N/C		
CIK22	20	1.3	N0	-	2 0	<b>CIK22-20</b>	
					1 1		1 Mod
					0 2		
CIK24	25	2.2	4	4 0	2 Mod	<b>CIK24-40</b>	
				3 1		<b>CIK24-31</b>	
				2 2		<b>CIK24-22</b>	
				0 4		<b>CIK24-04</b>	
				3 1		3 Mod	<b>CIK40-31</b>
2 2	<b>CIK40-22</b>						
0 4	<b>CIK40-04</b>						
CIK40	40	5.5	11	4 0	3 Mod	<b>CIK40-40</b>	
				3 1		<b>CIK40-31</b>	
Auxiliary Contacts (CIK40 & 63 Only)		230V	400V				
		AC15					
		6	4	1 1		<b>CHHSLA11</b>	
				2 0		<b>CHHSLA20</b>	

\* Data for single-phase power is valid for version-22

Where used in a DIN enclosure it is advised to allow 1 space between every 2 contactors for ventilation and heat dissipation, which should be filled with an 18MBP1 blank module



**301/TD1    302/TD2    402/TD1**

## DIGITAL TIMESWITCHES

Description	Modules	List No
1 Channel Digital Timeswitch	1	<b>301/TD1</b>
1 Channel Digital Timeswitch	2	<b>302/TD1</b>
2 Channel Digital Timeswitch	2	<b>302/TD2</b>
1 Channel Digital Timeswitch + plus data key facility	2	<b>402/TD1</b>
2 Channel Digital Timeswitch + plus data key facility	2	<b>402/TD2</b>
1 Channel Digital Astro Timeswitch + plus data key facility	2	<b>502/TD1</b>
2 Channel Digital Astro Timeswitch + plus data key facility	2	<b>502/TD2</b>

## SOFTWARE

Description	List No
Data Key	<b>4/5DK</b>
Data Key	<b>6DK</b>



301/TQ24

303/TQ7

**ANALOGUE TIMERS**

Description	Modules	List No
24hr Analogue Quartz	1	<b>301/TQ24</b>
24hr Analogue Quartz	3	<b>303/TQ24</b>
7 Day Analogue Quartz	3	<b>303/TQ7</b>
24hr Analogue Synchronous	1	<b>301/TS11</b>
24hr Analogue Synchronous	3	<b>303/TS24</b>



301/B6

301/B8

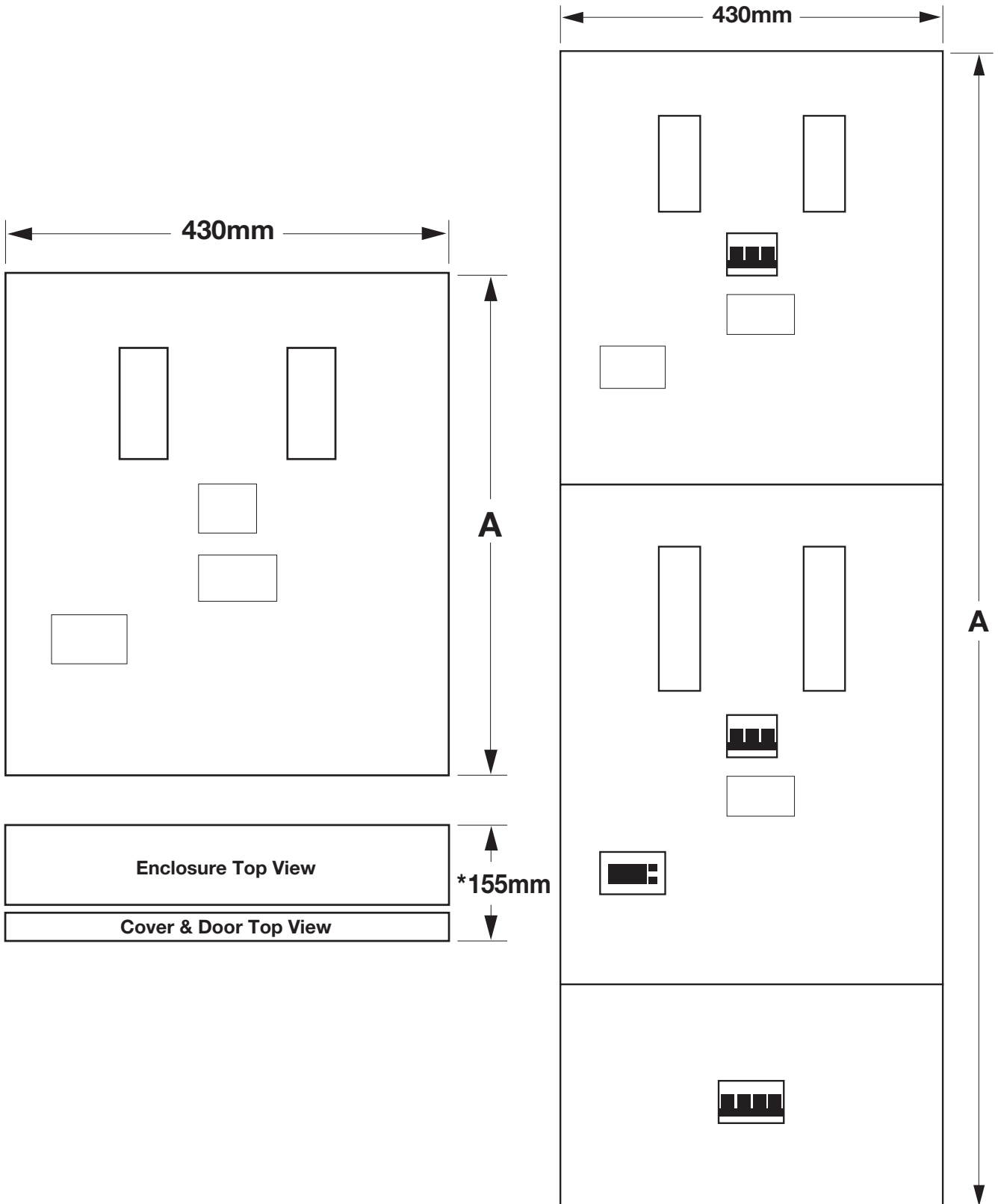
301/B12

**BELL TRANSFORMER**

Description	Modules	List No
12V bell transformer	2	<b>303/B12</b>

- With overload protection.

# TECHNICAL DATA & DIMENSIONS





## DISTRIBUTION BOARDS

Standards Compliance:	BSEN60439-3 and IEC 60439-3
Rated Voltage:	230/400V, 50/60Hz
Busbar Rating:	80A, 125A & 250A
Rated Insulation Voltage:	500V a.c.
Short Circuit Withstand:	16kA Conditional
Protection Degree:	IP3X (Door Closed)

## ISOLATORS & SWITCH DISCONNECTORS

Standards Compliance:	BSEN60947-3 and IEC 60947-3
Rated Voltage:	230/400V, 50/60Hz
Rated Insulation Voltage:	500V a.c.
Rated Impulse Withstand Voltage:	4kV a.c. peak (125A) 6kV a.c. peak (250A)
Rated Duty 200A:	AC22B (Double Pole)
Rated Duty 225A:	AC22B (Triple Pole)
Rated Duty 250A:	(Direct Connection)
Rated Duty 63 to 125A:	AC 22A (63A at AC23B)
Pole Configuration:	Double Pole, Triple Pole
Maximum Terminal Capacity 125A:	50mm <sup>2</sup>
Maximum Terminal Capacity 250A:	M10 LUG (20mm wide)

## RESIDUAL CURRENT CIRCUIT BREAKERS (RCCBs)

Standards Compliance:	EN61008 and IEC 61008
Rated Voltage:	230/400V, 50/60Hz
RCD Class:	Type AC
Maximum Terminal Capacity:	35mm <sup>2</sup>

## MINIATURE CIRCUIT BREAKERS (MCBs)

Standards Compliance:	BSEN60898 and IEC 60898
Rated Voltage:	230/400V, 50/60Hz
Short Circuit Capacity:	10kA (BSEN60898 and IEC60898). 15kA IEC/EN60947-2
Tripping Characteristics:	Types B, C and D
Temperature Range:	Maximum Operating Temperature: 55°C
Pole Configuration:	Single Pole, Double Pole, Triple Pole
Maximum Terminal Capacity:	35mm <sup>2</sup>

## RCBOs

Standards Compliance:	EN61009, IEC 61009
Rated Voltage:	230V 50Hz
Rated Short Circuit Capacity:	10kA
MCB Tripping Characteristics:	Types B and C
RCD Class:	Type A
Neutral:	Unswitched
Maximum Terminal Capacity:	16mm <sup>2</sup>

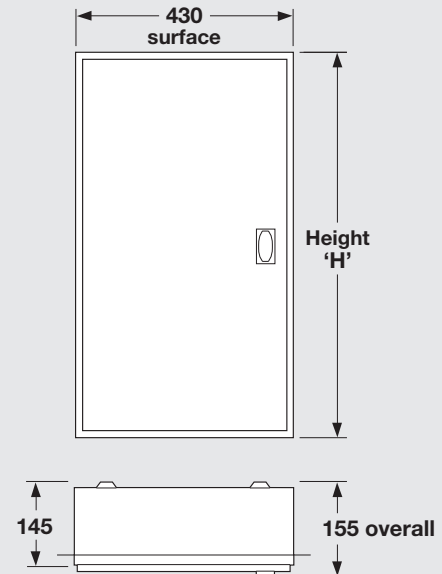
Neutral flying lead and functional earth lead provided

During interruption of the neutral conductor the protective function is guaranteed when FE & PE conductors are connected

## TYPE B AND ROW DISTRIBUTION BOARDS

125A Standard		250A	
List No.	H	List No.	H
<b>18LS04L</b>	490	<b>18LS04L250</b>	768
<b>18LS06L</b>	570	<b>18LS06L250</b>	822
<b>18LS08L</b>	650	<b>18LS08L250</b>	876
<b>18LS12L</b>	815	<b>18LS12L250</b>	984
<b>18LS16L</b>	895	<b>18LS16L250</b>	1092
<b>18LS20L</b>	1000	<b>18LS20L250</b>	1200
<b>18LS24L</b>	1140	<b>18LS24L250</b>	1308
Add-on enclosures			
List No.	H	List No.	H
<b>18DIN18</b>	245	<b>18AS1</b>	245
<b>18DIN36</b>	410	<b>18AS2</b>	410
<b>18SB</b>	245	<b>18AS3</b>	570
		<b>18AS4</b>	735
		<b>18AS5</b>	815
<b>18LS12A</b>	675	<b>18AS6</b>	815
Meter Packs			
<b>18ML125</b>	245	<b>18MH250LP</b>	740
<b>18ML125LP</b>	410		

Dual meter packs (LP) have a width equal to that of two distribution boards

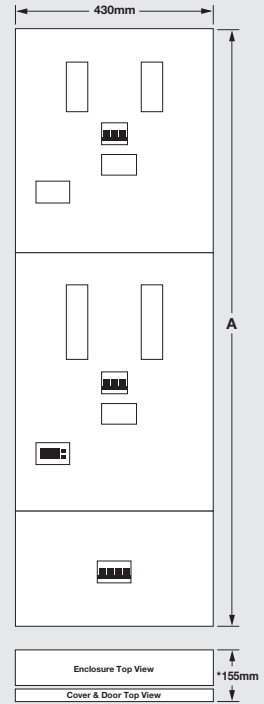


# TECHNICAL DATA LOADSTAR

## 125A LIGHTING & POWER MCB DISTRIBUTION BOARDS

DIMENSION A mm	TOP BOARD			
BOTTOM BOARD	4 Way	6 Way	8 Way	12 Way
6 Way	1303	-	-	-
8 Way	-	1463	1543	-
12 Way	1548	1628	1708	1873
16 Way	-	1708	1788	1953

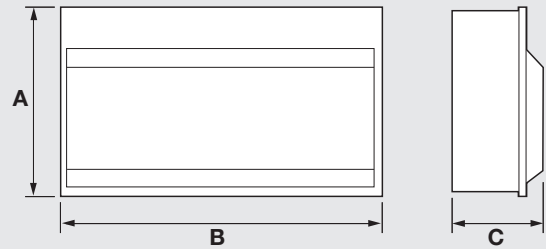
Distribution Board Widths - All 430mm    Distribution Board Depths - All 155mm



\* including fixing feet which are 3.5mm high

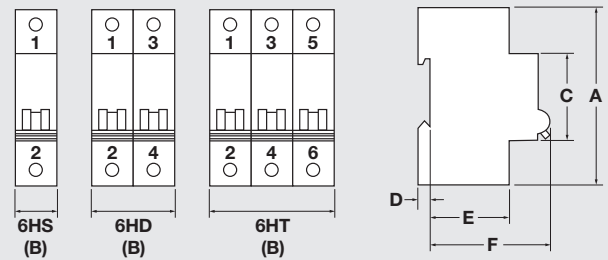
## TYPE A DISTRIBUTION BOARDS & GP ENCLOSURES

List No.	A	B	C	List No.	H	W	D
<b>18SN05L</b>	235	188	133	<b>18GP2S</b>	61	152	51
<b>18SN08L</b>	235	242	133	<b>18GP4S</b>	76	140	67
<b>18SN11L</b>	235	293	133				
<b>18SN14L</b>	235	343	133	<b>18GP2M</b>	90	225	66
<b>18SN19L</b>	235	437	133	<b>18GP4M</b>	135	346	74



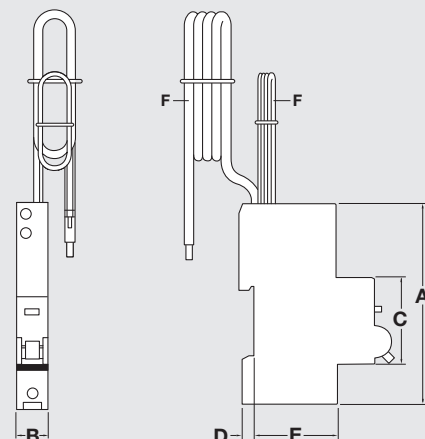
## MINIATURE CIRCUIT BREAKERS (MCBs)

List No	A	B	C	D	E	F
<b>6HS ...</b>	90	18	45	6	44	70
<b>6HD ...</b>	90	36	45	6	44	70
<b>6HT ...</b>	90	54	45	6	44	70



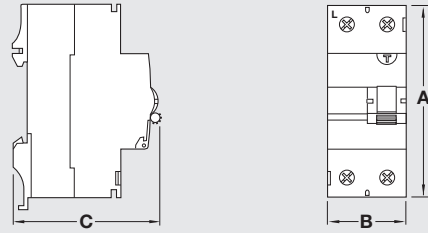
## LOADSTAR RCBOs (SINGLE MODULE)

List No	A	B	C	D	E	F
<b>6HSR .../30 ...</b>	125	17.6	45	6.2	44	600
<b>6HSR .../30/LT125</b>	125	17.6	45	6.2	44	1200



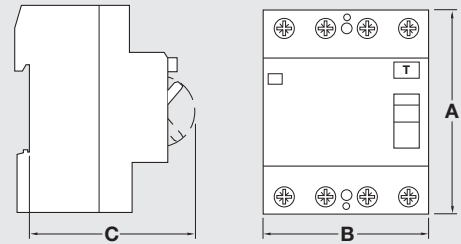
## 2 MODULE RESIDUAL CURRENT CIRCUIT BREAKERS

List No		A	B	C
<b>18R100/.../2</b>	90	35	75	

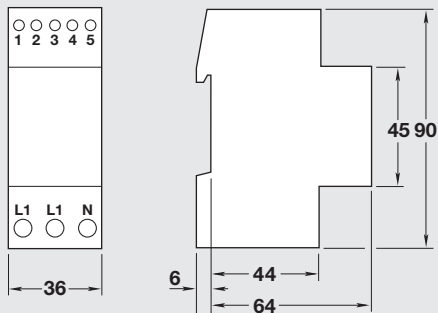


## 4 MODULE RESIDUAL CURRENT CIRCUIT BREAKERS

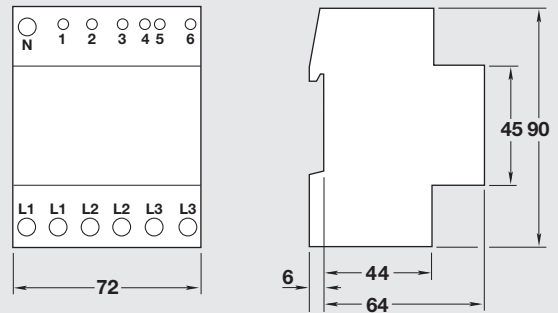
List No		A	B	C
<b>18R100/.../4</b>	85	70	68	



## ENERGY METER DIMENSIONS



C7KT1 531 & C7KT1 533



C7KT1 543 & C7KT1 545

## DISTRIBUTION BOARDS

Standards Compliance:	BSEN61439-3 and IEC 61439-3
Rated Voltage:	230/400V, 50/60Hz
Busbar Rating:	125A/250A
Rated Insulation Voltage:	500V a.c.
Short Circuit Withstand:	25kA Conditional 17.2kA for 0.25 sec. 12.0kA for 1 sec.
Protection Degree:	IP3X (Door Closed)

## ISOLATORS & SWITCH DISCONNECTORS

### When used as an incomer to MCB Distribution Boards

Standards Compliance:	BSEN60947-3 and IEC/EN60947-3
Rated Voltage:	230/400V, 50/60HZ
Rated Insulation Voltage:	500V a.c.
Rated Impulse Withstand Voltage:	6kV a.c. peak
Rated Duty:	
125A	AC 22A
200A	AC 22B (Double Pole)
225A	AC 22B (Triple Pole)
Pole Configuration:	Double Pole, Triple Pole
Isolators 63A to 125A:	50mm <sup>2</sup>
Isolators 225A	M10 Lug (20mm wide)

## ISOLATORS & SWITCH DISCONNECTORS

### When supplied loose

Standards Compliance:	BSEN60947-3 and IEC/EN60947-3
Rated Voltage:	230/400V, 50/60HZ
Rated Insulation Voltage:	500V a.c.
Rated Impulse Withstand Voltage:	6kV a.c. peak
Rated Duty:	
125A	AC 22A
200A	AC 22B (Double Pole)
250A	AC 22B (Triple Pole)
Pole Configuration:	Double Pole, Triple Pole
Isolators 250A:	Incoming - M10 Lug (20mm wide) Outgoing - M8 Lug (16mm wide)

## RESIDUAL CURRENT CIRCUIT BREAKERS (RCCBs)

Standards Compliance:	EN61008 and IEC 61008
Rated Voltage:	230/400V, 50/60Hz
RCD Class:	Type AC
Maximum Terminal Capacity:	35mm <sup>2</sup>

## MINIATURE CIRCUIT BREAKERS (MCBs)

Standards Compliance:	BSEN60898 and IEC 60898
Rated Voltage:	230/400V, 50/60Hz
Short Circuit Capacity:	16kA BSEN60898-1 and IEC60898-1
Tripping Characteristics:	Types B, C and D
Temperature Range:	Maximum Operating Temperature: 55°C
Pole Configuration:	Single Pole, Double Pole, Triple Pole
Maximum Terminal Capacity:	35mm <sup>2</sup>

## MOULDED CASE CIRCUIT BREAKERS (MCCBs)

Standards Compliance:	IEC/EN60947-2
Rated Current In:	200A
Rated Configuration:	3 Pole or 4 Pole
Rated Operational voltage:	690V
Rated Breaking Capacity:	65kA

## RCBOs

Standards Compliance:	EN61009, IEC 61009
Rated Voltage:	230V 50Hz
Rated Short Circuit Capacity:	16kA
MCB Tripping Characteristics:	Type C
RCD Class:	Type A
Neutral:	Unswitched
Maximum Terminal Capacity:	16mm <sup>2</sup>

Neutral flying lead and functional earth lead provided

During interruption of the neutral conductor the protective function is guaranteed when FE & PE conductors are connected

## TYPE B AND ROW DISTRIBUTION BOARDS

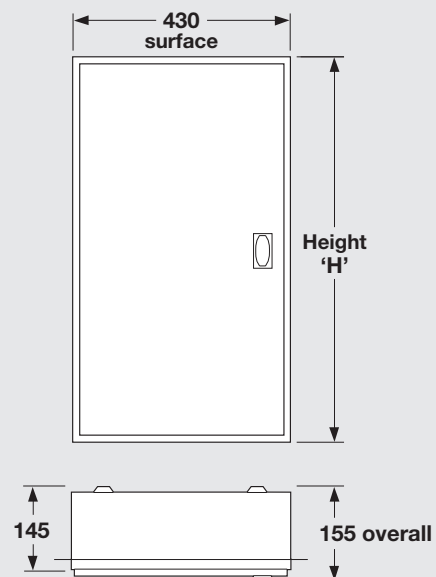
125A		250A	
List No.	H	List No.	H
18PSC04MR	490	18PSC204MR	768
18PSC06MR	570	18PSC206MR	822
18PSC08MR	650	18PSC208MR	876
18PSC12MR	815	18PSC212MR	984
18PSC16MR	895	18PSC216MR	1092
18PSC20MR	1000	18PSC220MR	1200
18PSC24MR	1140	18PSC224MR	1308

### Add-on enclosures

List No.	H	List No.	H
18PSCDIN18	245	18PSCAS1	245
18PSCDIN36	410	18PSCAS2	410
18PSCSB	245	18PSCAS3	570
		18PSCAS4	735
		18PSCAS5	815

### Meter Packs

18MPSC125	245
18MPSC125LP	410
18MPSC250LP	740



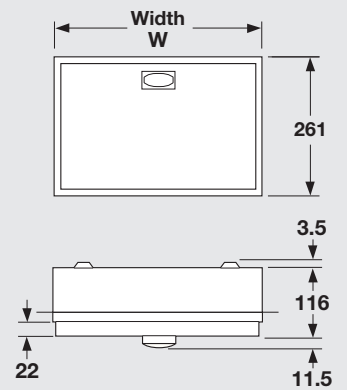
Dual meter packs (LP) have a width equal to that of two distribution boards

# TECHNICAL DATA POLESTAR COMPACT

## TYPE A DISTRIBUTION BOARDS

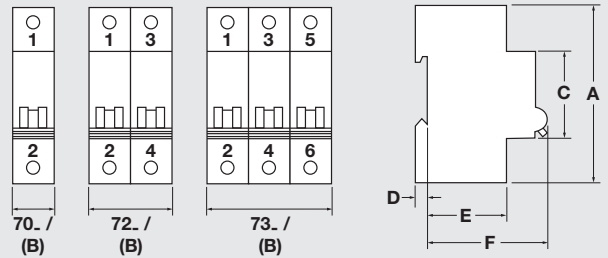
List No.	W	List No.	W	List No.	W	List No.	W
<b>18PSC05/21A</b>	188	<b>18PSC05/33A</b>	188	<b>18PSC05/31A</b>	188	<b>18PSC10/S413A</b>	343
<b>18PSC08/21A</b>	242	<b>18PSC08/33A</b>	242	<b>18PSC08/31A</b>	242	<b>18PSC10/S513A</b>	343
<b>18PSC11/21A</b>	293	<b>18PSC11/33A</b>	293	<b>18PSC11/31A</b>	293	<b>18PSC10/S613A</b>	343
<b>18PSC14/21A</b>	343						
<b>18PSC19/21A</b>	438						
<b>18PSC28/21A*</b>	343						

\* 2 Bank Unit H = 500mm



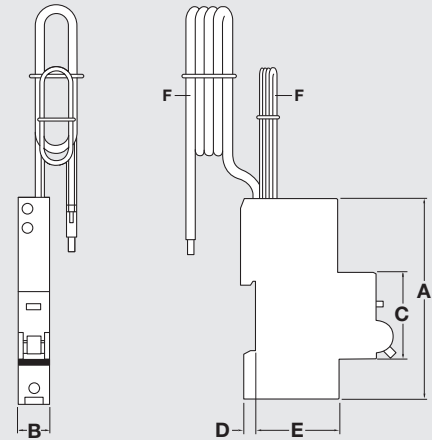
## MINIATURE CIRCUIT BREAKERS (MCBs)

List No	A	B	C	D	E	F
<b>70 - / - -</b>	90	18	45	6	44	70
<b>72 - / - -</b>	90	36	45	6	44	70
<b>73 - / - -</b>	90	54	45	6	44	70



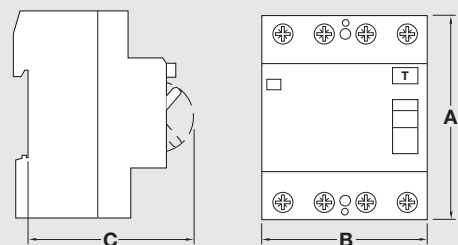
## POLESTAR COMPACT RCBOs (SINGLE MODULE)

List No	A	B	C	D	E	F
<b>701C/ - - 3</b>	125	17.6	45	6.2	44	600
<b>701C/ - - 3/LT125</b>	125	17.6	45	6.2	44	1200



## 4 MODULE RESIDUAL CURRENT CIRCUIT BREAKERS

List No	A	B	C
<b>241/ - - -</b>	85	70	68

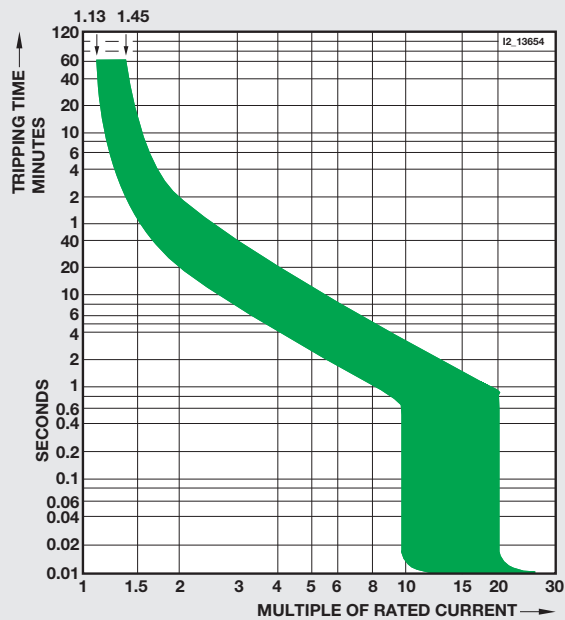
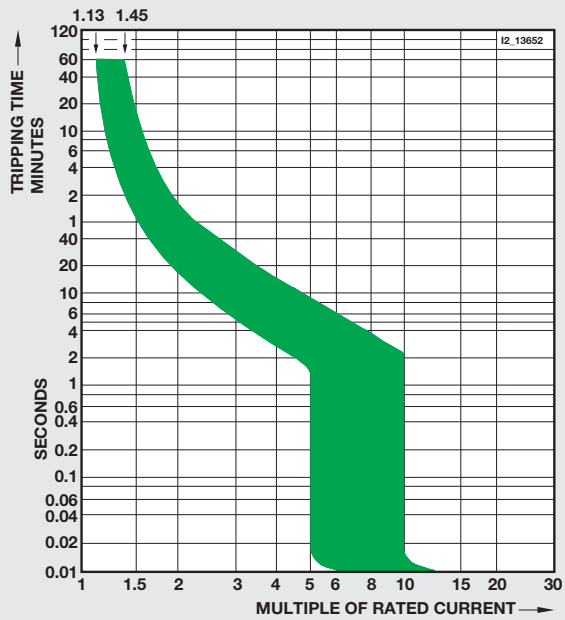
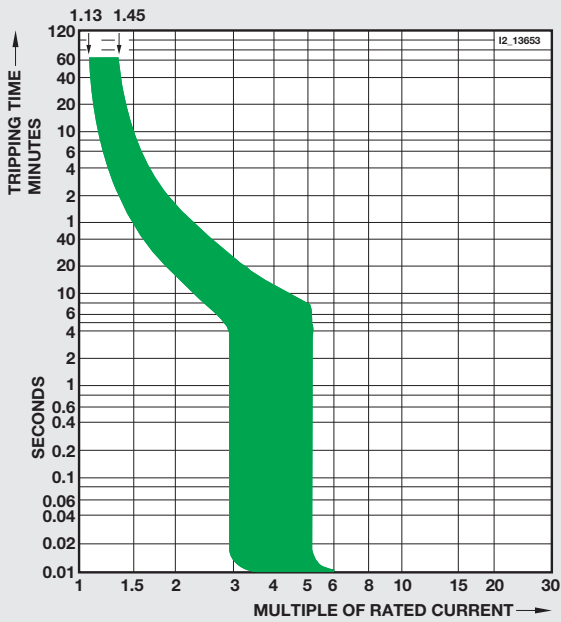


# TECHNICAL DATA POLESTAR COMPACT

POLESTAR COMPACT MCBs – Type B, C & D typical tripping characteristics/ $I^2t$  energy let-through values

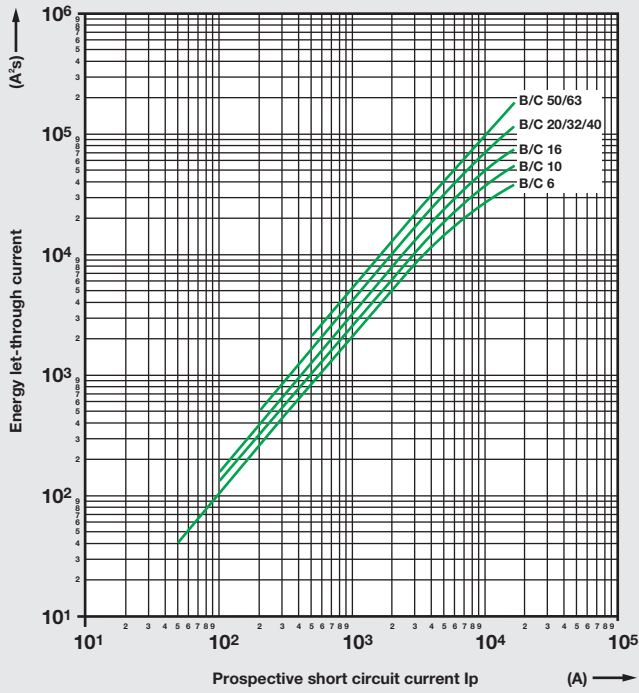


## Tripping Characteristics

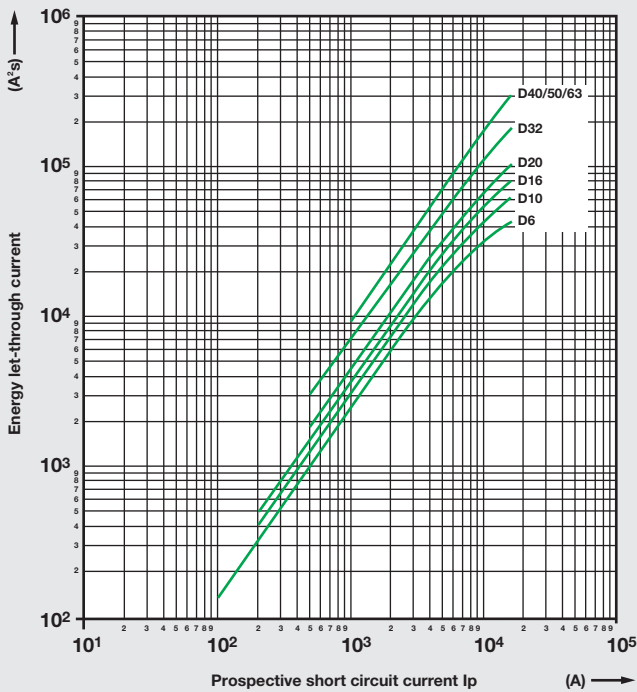


## POLESTAR COMPACT MINIATURE CIRCUIT BREAKER - Earth loop Impedance Values

### CHARACTERISTIC: B & C



### CHARACTERISTIC: D





## SILENT OPERATION INSTALLATION CONTACTORS

TYPE	Thermal Rating per Pole AC1(A)	Motor Rating AC3 (kW)		Pole Configuration		LIST No	
		230V	400V	N/O	N/C		
CIK22	20	1.3 N0	-	2	0	1 Mod [ CIK22-20 CIK22-11 CIK22-02	
		0.75 NC		1	1		
CIK24	25	2.2 1.3*	4	4	0	2 Mod [ CIK24-40 CIK24-31 CIK24-22 CIK24-04	
				3	1		
				2	2		
				0	4		
CIK40	40	5.5 3.7*	11	4	0	3 Mod [ CIK40-40 CIK40-31 CIK40-22 CIK40-04	
				3	1		
				2	2		
				0	4		
CIK63	63	8.5 5.0*	15	4	0	3 Mod [ CIK63-40 CIK63-22	
				2	2		
Auxiliary Contacts (CIK40 & 63 Only)		230V	400V	AC15			CHHSLA11 CHHSLA20
6	4	-	-	1	1		
				2	0		

\* Data for single-phase power is valid for version -22

### MAXIMUM NUMBER OF LAMPS PER POLE

TYPE		CIK22	CIK24	CIK40	CIK63
Incandescent lamps	60W	33	33	65	85
	100W	20	20	40	50
	200W	10	10	20	25
	500W	3	3	8	10
	1000W	1	1	4	5
Energy saving lamps	7W	40	50	120	160
	11W	30	40	100	140
	15W	20	30	85	115
	20W	17	22	65	85
Halogen lamps	200W	10	10	20	25
	300W	6	6	13	16
	500W	3	3	8	10
	1000W	1	1	4	5
Low pressure sodium-vapour lamps (uncompensated)	35W	7	9	23	30
	55W	7	9	23	30
	90W	4	5	14	19
	135W	3	4	10	13
	180W	3	4	10	13
High pressure sodium-vapour lamps (uncompensated)	50W	12	12	24	38
	70W	10	10	20	30
	110W	8	7	18	26
	150W	5	6	17	22
	250W	3	4	10	13
	400W	2	2	6	8
	1000W	-	1	3	3
Low pressure sodium-vapour lamps (compensated)	35W	1	1	11	16
	55W	1	1	11	16
	90W	1	1	8	12
	135W	-	-	4	7
	180W	-	-	4	7
High pressure sodium-vapour lamps (compensated)	50W	3	3	22	33
	70W	2	3	18	27
	110W	2	2	18	27
	150W	1	1	11	16
	250W	-	1	6	10
	400W	-	-	4	6
	1000W	-	-	2	3
Fluorescent lamps (uncompensated)	18W	22	24	90	140
	36W	17	20	65	95
	58W	14	17	45	70
Fluorescent lamps (compensated)	18W	7	8	48	73
	36W	7	8	48	73
	58W	4	5	31	47
Fluorescent lamps (dual fitted)	18W	2 x 30	2 x 40	2 x 100	2 x 150
	36W	2 x 17	2 x 24	2 x 65	2 x 95
	58W	2 x 10	2 x 15	2 x 40	2 x 60
Fluorescent lamps with electronic starting device AC - operation	1 x 18W	25	35	100	140
	1 x 36W	15	20	52	75
	1 x 58W	14	19	50	72
	2 x 18W	12	17	50	70
	2 x 36W	7	10	26	38
	2 x 58W	7	9	25	36





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