

electrium



Crabtree

Distribution Boards
& Devices



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POINT

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Certificate Number 18828
ISO 9001, ISO 14001, ISO 45001



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

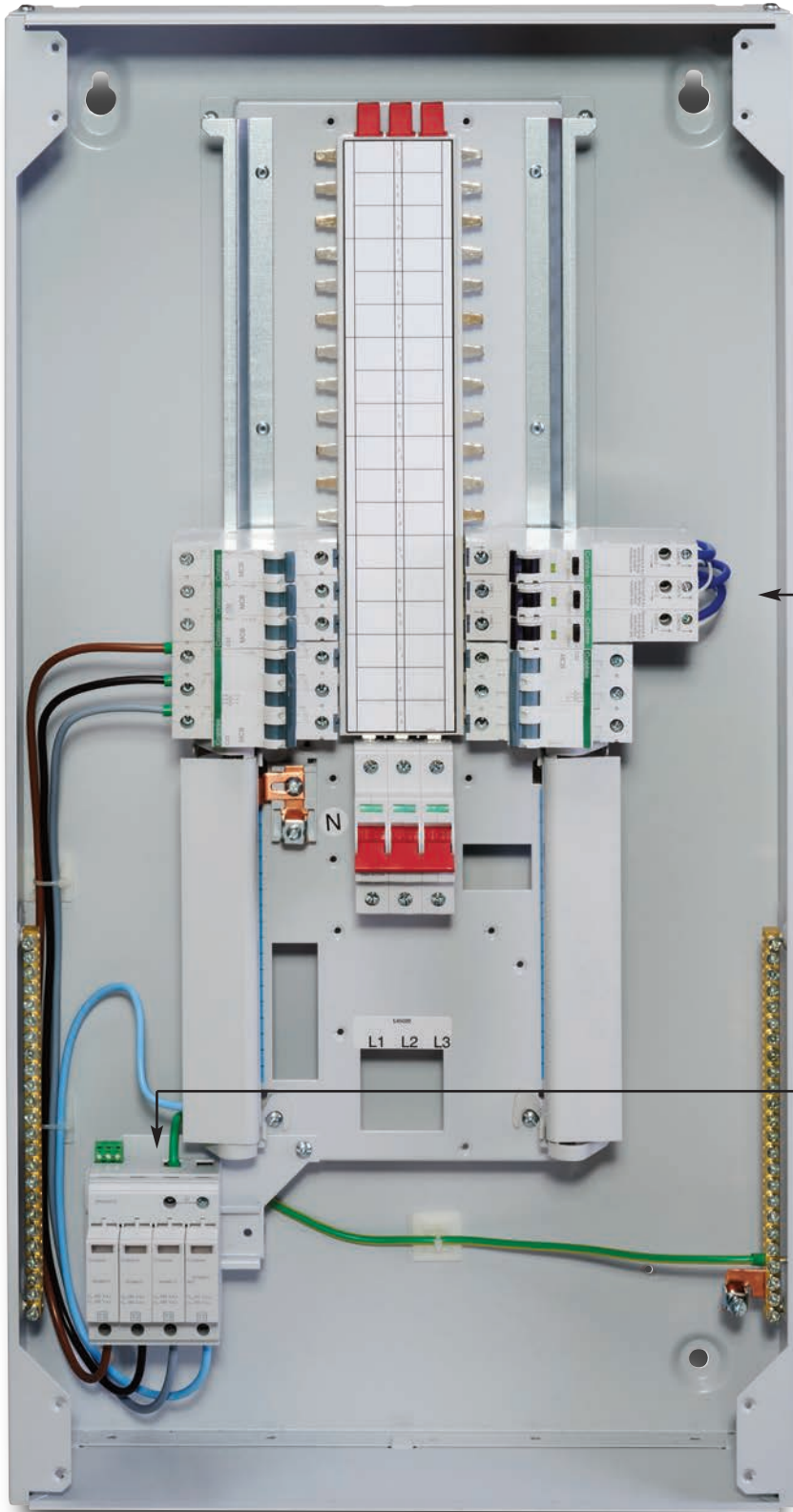


Testing Laboratory No. 1460
Testing Laboratory No. 2003

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

 **Crabtree**

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.

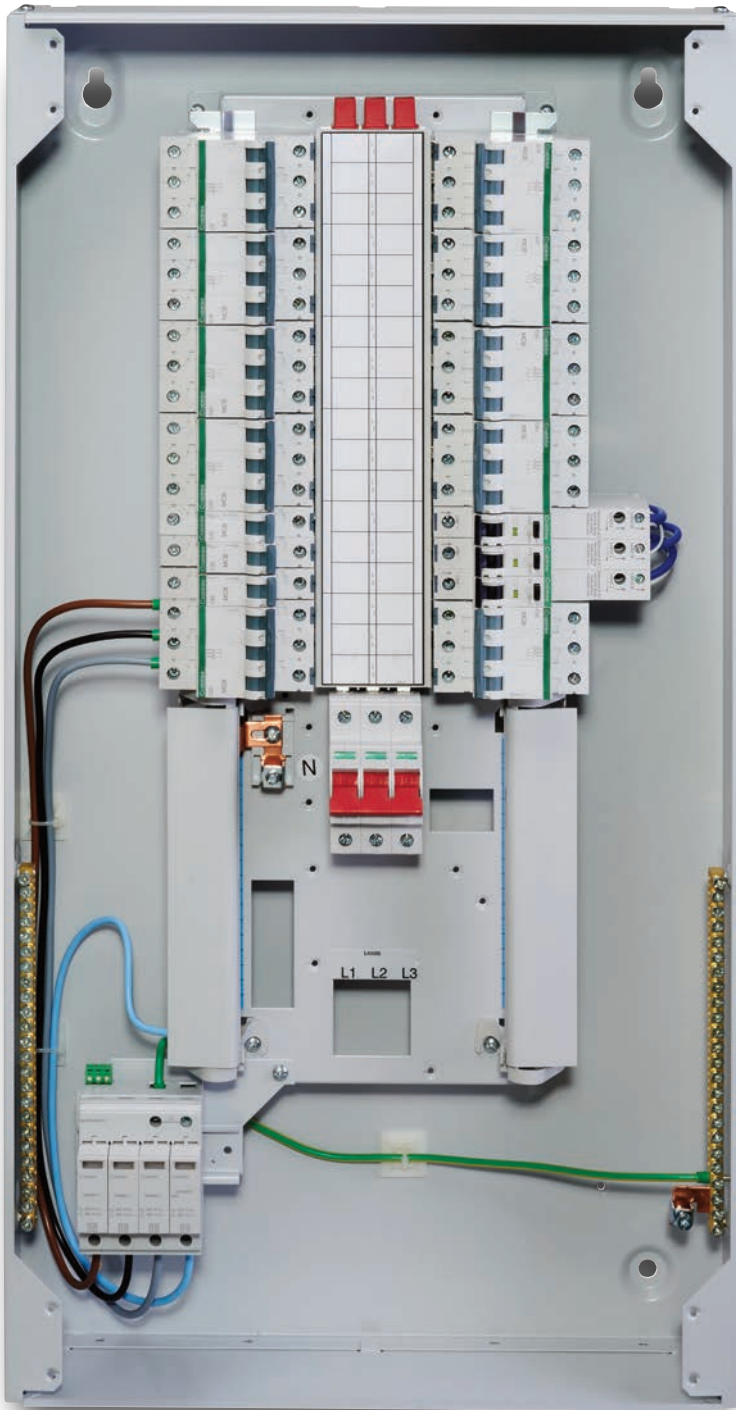
Crabtree MCB distribution boards accept 10kA 30mA single pole RCBOs.

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





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	18SN05L
8	235	242	128	18SN08L
11	235	293	128	18SN11L
14	235	343	128	18SN14L
16	235	437	128	18SN16L
19	235	437	128	18SN19L

SURGE PROTECTION DEVICE

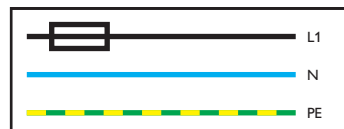
Description	List No
Single Module Type 2 SPD	CRT2SPD3W/1

REPLACEMENT PLUG-IN CARTRIDGE

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

- 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



TN-S / TT / TN-C-S
Single Phase Supply -
Separate Protective Earth &
Neutral

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

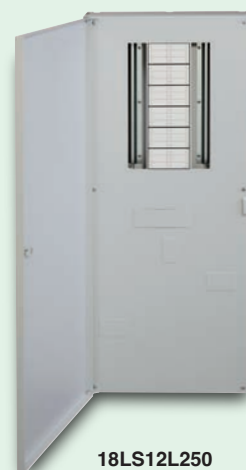
125A TP&N TYPE B DISTRIBUTION BOARD

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

- Accepts 3A to 63A MCBs



100SW2



18LS12L250

LOADSTAR 125A INCOMING OPTIONS

Order Device and Kit (where required) separately.

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

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

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

250A TPN TYPE B DISTRIBUTION BOARDS SURFACE

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

- Accepts 3A to 80A MCBs

SWITCH DISCONNECTORS DIRECT CONNECTION & MCCB INCOMERS

Switch Disconnecter	List No
250A TP	250LTPSD
250A 4P	250L4PSD

- 120mm² Terminal capacity

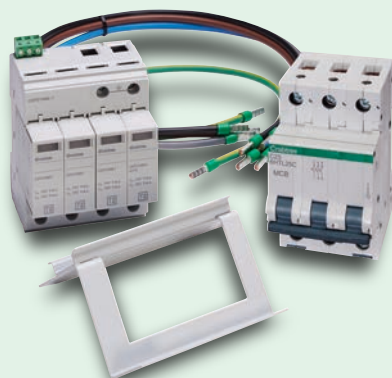
Direct Connection	
250A 3P	250LDCK

- 120mm² Terminal capacity
- All Incomers are supplied complete with mounting kit, links & fixing screws

MCCB	
250A 3P MCCB	250LTPMB
250A 4P MCCB	250L4PMB

- 120mm² 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	LS125SPKITL
250A Loadstar Surge Protection Kit	LS250SPKITL

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

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

STANDALONE SPD DEVICES

Description	List No.
Type 1 SPD for 1P 3-wire Systems (4 Module)	CSPD7412-1
Type 1 SPD for 3P 4-wire Systems (6 Module)	CSPD7413-1
Type 1 SPD for 3P 5-wire Systems (8 Module)	CSPD7414-1
Type 1+2 SPD for 1P 3-wire Systems (4 Module)	CSPD7442-1
Type 1+2 SPD for 3P 5-wire Systems (8 Module)	CSPD7444-1
Type 2 SPD for 1P 2-wire Systems (2 Module)	CSPD7462-1
Type 2 SPD for 3P 5-wire Systems (4 Module)	CSPD7464-1

- 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	18AS1
2	410	430	155	18AS2
3	570	430	155	18AS3
4	735	430	155	18AS4
5	815	430	155	18AS5

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	18DIN18
36 Module (2 Rows of 18)	18DIN36

Cable Spreader Box

Add-on Enclosure, 245mm high, Blank front cover plate	18SB
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INDIVIDUAL ENCLOSURES

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



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	18LPV0604SL
8 + 6	1463	430	155	18LPV0806SL
8 + 8	1543	430	155	18LPV0808SL
12 + 4	1548	430	155	18LPV1204SL
12 + 6	1628	430	155	18LPV1206SL
12 + 8	1708	430	155	18LPV1208SL
12 + 12	1873	430	155	18LPV1212SL
16 + 6	1708	430	155	18LPV1606SL
16 + 8	1788	430	155	18LPV1608SL
16 + 12	1953	430	155	18LPV1612SL

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

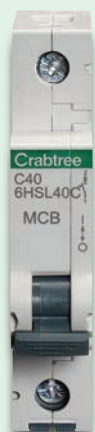


18LPV0806ML

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

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

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



6HSL40C

SINGLE POLE MCBs - 10kA

in accordance with BS EN 60898-1

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

80A MCB for use in 250A Distribution Boards ONLY

80A	-	6HSL80C	-
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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 35mm² cable
- 18mm modular width



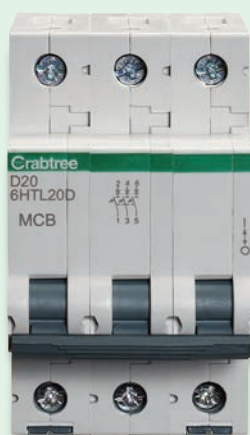
6HDL32B

DOUBLE POLE MCBs - 10kA

in accordance with BS EN 60898-1

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

- 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 35mm² 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	6HTL06B	6HTL06C	6HTL06D
10A	6HTL10B	6HTL10C	6HTL10D
16A	6HTL16B	6HTL16C	6HTL16D
20A	6HTL20B	6HTL20C	6HTL20D
25A	6HTL25B	6HTL25C	6HTL25D
32A	6HTL32B	6HTL32C	6HTL32D
40A	6HTL40B	6HTL40C	6HTL40D
50A	6HTL50B	6HTL50C	6HTL50D
63A	6HTL63B	6HTL63C	6HTL63D

80A MCB for use in 250A Distribution Boards ONLY

80A	-	6HTL80C	-
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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 35mm² 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	6HSR06/30B	6HSR06/30C
10A	6HSR10/30B	6HSR10/30C
16A	6HSR16/30B	6HSR16/30C
20A	6HSR20/30B	6HSR20/30C
32A	6HSR32/30B	6HSR32/30C
40A	6HSR40/30B	6HSR40/30C
50A	6HSR50/30B	6HSR50/30C

- 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	6HSR06/30C/LT
10A	6HSR10/30C/LT
16A	6HSR16/30C/LT
20A	6HSR20/30C/LT
32A	6HSR32/30C/LT
40A	6HSR40/30C/LT
50A	6HSR50/30C/LT

- 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	LS125MPKIT
125A Integral Meter Kit (MID)	LS125MIDMPKIT
250A Integral Meter Kit	LS250MPKIT
250A Integral Meter Kit (MID)	LS250MIDMPKIT

*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	18ML125VLPK

- 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



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	18ML125

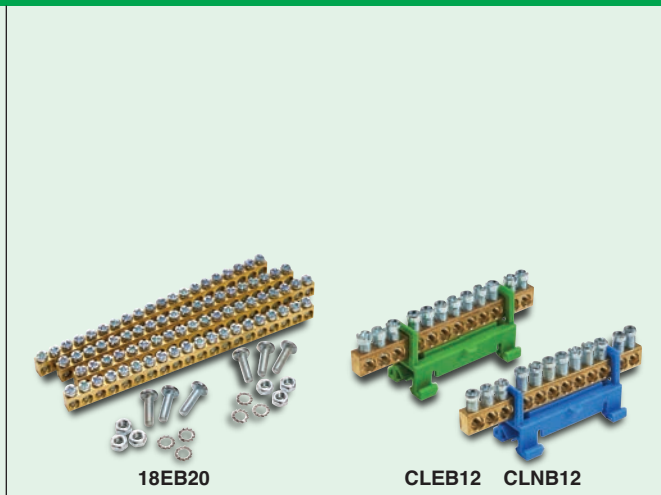


ENCLOSED 125A & 250A DUAL METER PACKS

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	18ML125LP	18MH250LP

- 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	16CL
MCB Locking device (excl. lock)	MCBLD
Padlock & Key for use with MCBLD	748
Clean Earth Bar Kit (4-12 way = 2 kits, 16-24 way = 4 kits)	18CEBK
Blanking Strip - 6 Individual 1 module wide pieces	18BP1/6
Blanking Strip - 12 Individual 1 module wide pieces	18BP1/12
Blanking Strip - 4 lengths each 3 modules wide	18BP3/4
Blanking Strip - 2 lengths each 12 modules wide	18BP12/2
Busbar insulators (pack of 5)	18BB1L
Cable clamp assembly (70mm²) - pack of 3	17CC
1 Module Width MCB Profile Blanking Piece	18MBP1L

- 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		18EB04
6		18EB06
8		18EB08
12		18EB12
16		18EB16
20		18EB20
24		18EB24
Earth and Neutral bar, 10mm² cable max, for use with DIN Rail		
	NEUTRAL	EARTH
7 Terminals	CLNB07	CLEB07
12 Terminals	CLNB12	CLEB12
15 Terminals	CLNB15	CLEB15



18R100/30/2

2 POLE RCDs - TYPE AC

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

2 POLE RCDs TIME DELAY - TYPE AC

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



18EB20

4 POLE RCDs - TYPE AC

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

4 POLE RCDs TIME DELAY - TYPE AC

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

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 Disconnectors 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	18PSC05/21A
8	255	242	122	18PSC08/21A
11	255	242	122	18PSC11/21A
14	255	343	122	18PSC14/21A
19	255	438	122	18PSC19/21A
28	500	343	122	18PSC28/21A

- 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	18PSC05/33A
8	261	242	131	18PSC08/33A
11	261	293	131	18PSC11/33A

COMPLETE WITH 80A 100mA RCCB INCOMER

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

COMPLETE WITH DUAL RCCB SPLIT LOAD INCOMERS

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

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



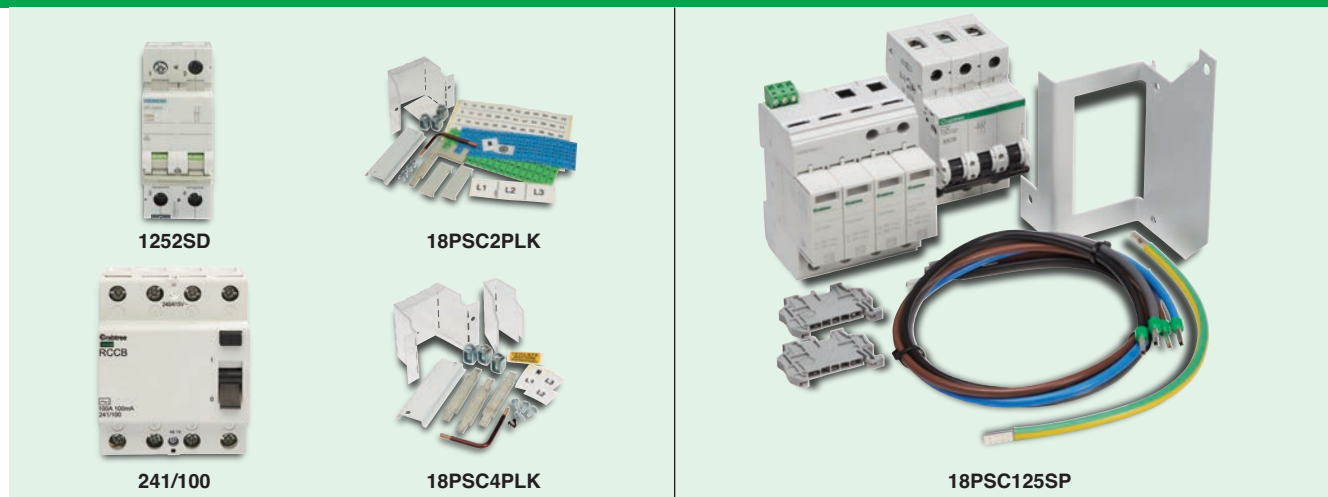
18PSC08MR

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

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

- 50mm² 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	1252SD	18PSC2PLK
125A 3P	1253SD	not required
125A 4P	1254SD	18PSC4PLK

Direct Connection	Device	Kit
125A 3P	125DCB	not required

- 50mm² Terminal capacity. IEC/EN 60947-3

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

- Type AC 35mm² 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	18PSC125SP
250A Polestar Compact Surge Protection Kit	18PSC250SP16

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

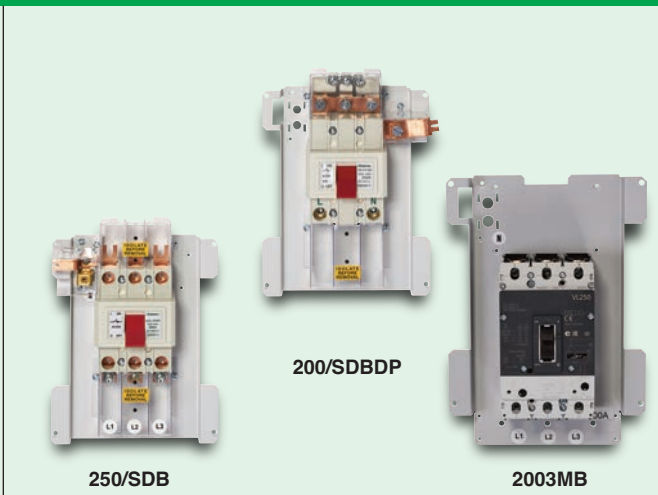
18PSC250SP16	Crabtree Polestar Compact
Supplying MCB	Icu 16kA C 32A TP
Overvoltage Protection Device	CSPD7464-1** TNS 4P Remote Signalling Option Type 2 – Surge Arrester
Cable Connections Included	Yes

POLESTAR COMPACT IP3X 250A DISTRIBUTION BOARDS



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

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



SWITCH DISCONNECTORS AND DIRECT CONNECTION

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

- 150mm² Terminal capacity
- BS EN 60947-3, IEC 60947-3

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

Direct Connection	
250A 3P	250/DCB

- 120mm² Terminal capacity
- All Incomers are supplied complete with mounting kit, links & fixing screws

MOULDED CASE CIRCUIT BREAKERS

200A 3P	2003MB
200A 3P&N	2004MB

- Adjustable thermal 160 to 200A
- Adjustable magnetic 1000 to 2000A
- 185mm² terminal capacity
- All Incomers are supplied complete with mounting kit, links & fixing screws
- IEC 60947-2, BS EN 60947-2



18PSCDIN18



18PSCAS3

DINRAIL SERVICE CENTRES

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

- 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

ROWBOARD SERVICE CENTRES

Rowboard:

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

- 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.



SINGLE POLE MCBs

SINGLE POLE MCBs - 16kA

in accordance with BS EN 60898-1

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

- 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 35mm² cable
- 18mm modular width



DOUBLE POLE MCBs

DOUBLE POLE MCBs - 16kA

in accordance with BS EN 60898-1

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

- 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 35mm² 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	73B/06	73C/06	73D/06
10A	73B/10	73C/10	73D/10
16A	73B/16	73C/16	73D/16
20A	73B/20	73C/20	73D/20
32A	73B/32	73C/32	73D/32
40A	73B/40	73C/40	73D/40
50A	73B/50	73C/50	73D/50
63A	73B/63	73C/63	73D/63

- 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 35mm² cable
- 18mm modular width



SINGLE MODULE RCBOs

RCBOs SINGLE MODULE - 30mA SENSITIVITY - 16kA

RATING

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

- 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 16mm² cable
- Tail length 600mm
- Type A AC Waveform + Pulsating DC Waveform

LONGTAIL RCBOs SINGLE MODULE - 30mA SENSITIVITY - 16kA

RATING

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

- 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



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	125MP/50	250MP/120
Integral Meter Kit (MID)	125MP/50/MID	250MP/120/MID

Description	200A
Integral Meter Kit 185mm ² cable	200MP/185
Integral Meter Kit 185mm ² cable (MID)	200MP/185/MID

- 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 185mm² 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	18MPSC125

POLESTAR COMPACT METERING OPTIONS

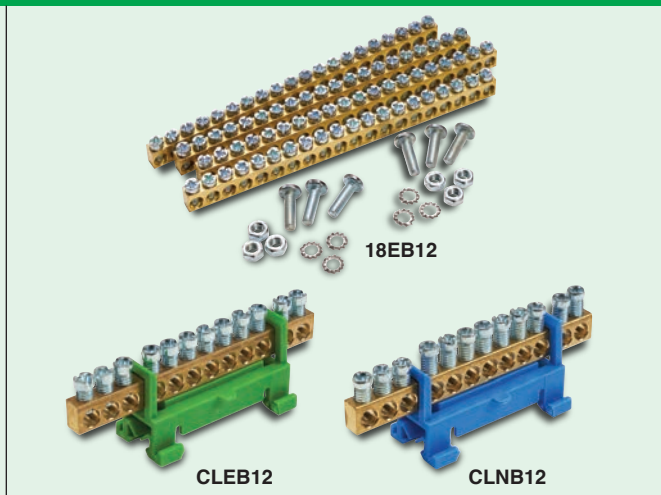


ENCLOSED DUAL METER KIT

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	18MPSC125LP	18MPSC250LP

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



GENERAL POLESTAR ACCESSORIES TP & SP

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

ADDITIONAL EARTH BAR KITS

Additional Earth Bars to fit TP Distribution Boards

No of Ways	List No	No of Ways	List No
4	18EB04	16	18EB16
6	18EB06	20	18EB20
8	18EB08	24	18EB24
12	18EB12		

Earth and Neutral bar, 10mm² cable max, for use with DIN Rail

	NEUTRAL	EARTH
7 Terminals	CLNB07	CLEB07
12 Terminals	CLNB12	CLEB12
15 Terminals	CLNB15	CLEB15

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 0.75 NC	—	2	0	1 Mod-	CIK22-20
				1	1		CIK22-11
				0	2		CIK22-02
CIK24	25	2.2 1.3*	4	4	0	2 Mod-	CIK24-40
				3	1		CIK24-31
				2	2		CIK24-22
				0	4		CIK24-04
CIK40	40	5.5 3.7*	11	4	0	3 Mod-	CIK40-40
				3	1		CIK40-31
				2	2		CIK40-22
				0	4		CIK40-04
Auxiliary Contacts (CIK40 & 63 Only)	230V	400V					
	AC15						
	6	4	—	—	1	1	CHHSLA11
					2	0	CHHSLA20

* 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



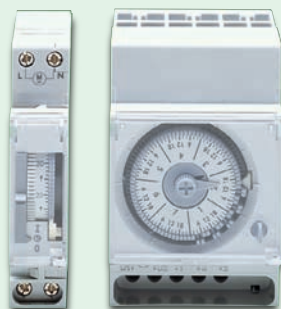
301/TD1 302/TD2 402/TD1

DIGITAL TIMESWITCHES

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

SOFTWARE

Description	List No
Data Key	4/5DK
Data Key	6DK



301/TQ24

303/TQ7

ANALOGUE TIMERS

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



301/B6

301/B8

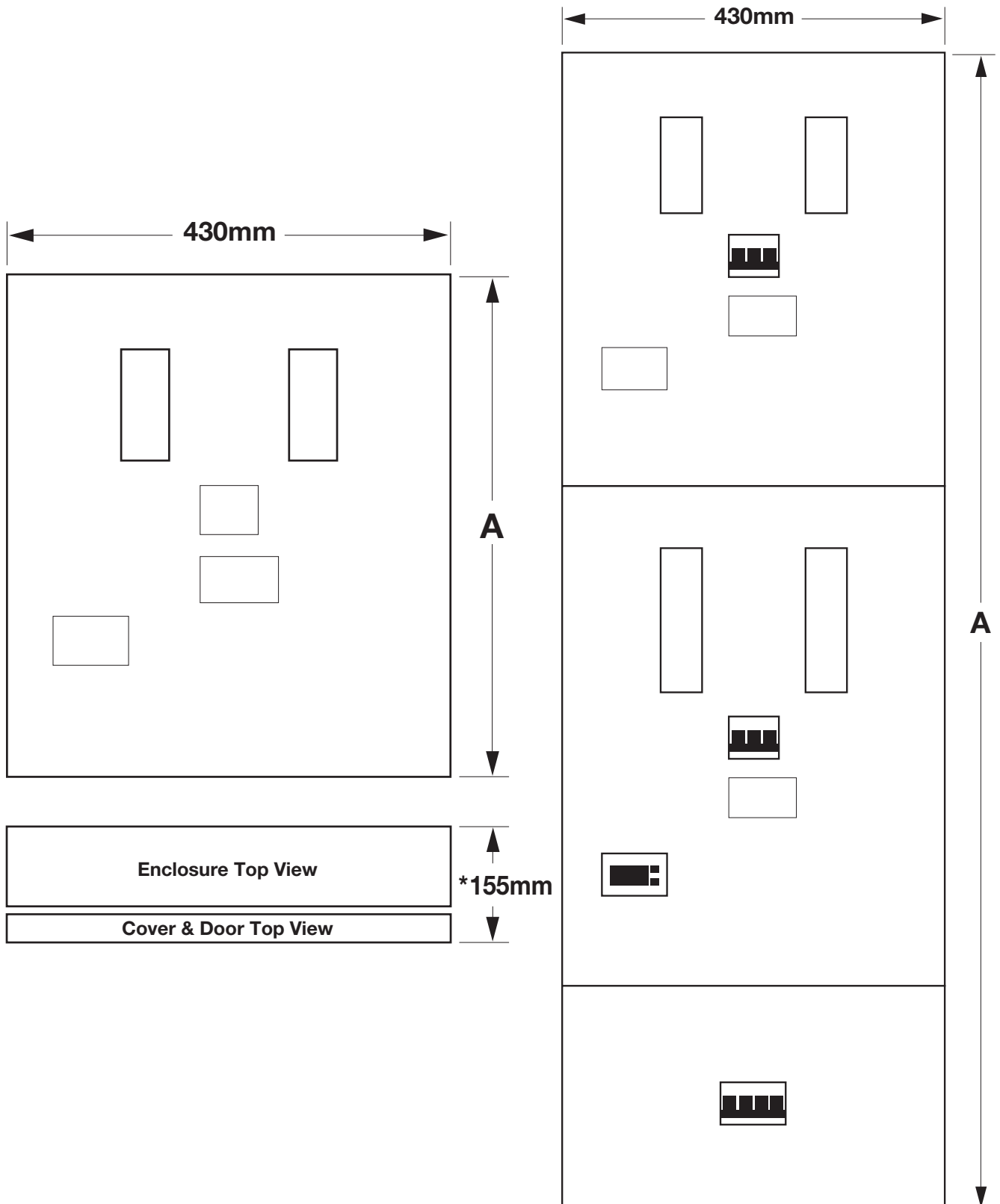
301/B12

BELL TRANSFORMER

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

- 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 ²
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 ²

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 ²

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 ²

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
18LS04L	490	18LS04L250	768
18LS06L	570	18LS06L250	822
18LS08L	650	18LS08L250	876
18LS12L	815	18LS12L250	984
18LS16L	895	18LS16L250	1092
18LS20L	1000	18LS20L250	1200
18LS24L	1140	18LS24L250	1308

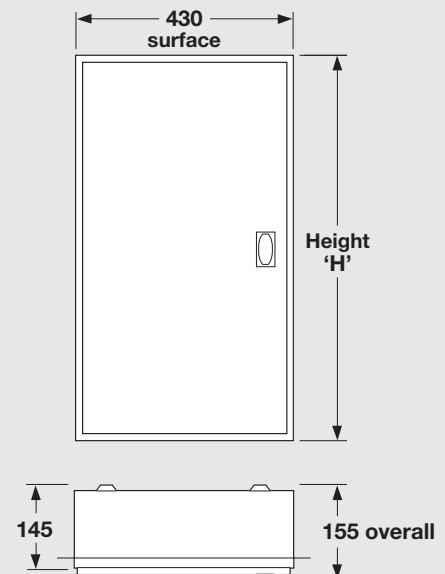
Add-on enclosures

List No.	H	List No.	H
18DIN18	245	18AS1	245
18DIN36	410	18AS2	410
18SB	245	18AS3	570
		18AS4	735
		18AS5	815
18LS12A	675	18AS6	815

Meter Packs

18ML125	245	18MH250LP	740
18ML125LP	410		

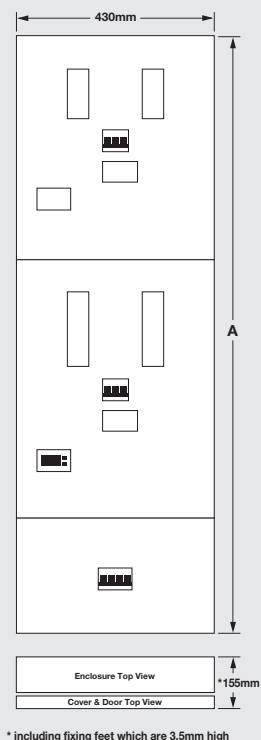
Dual meter packs (LP) have a width equal to that of two distribution boards



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

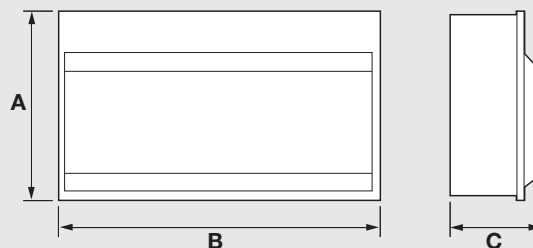
Distribution Board Widths - All 430mm Distribution Board Depths - All 155mm



* including fixing feet which are 3.5mm high

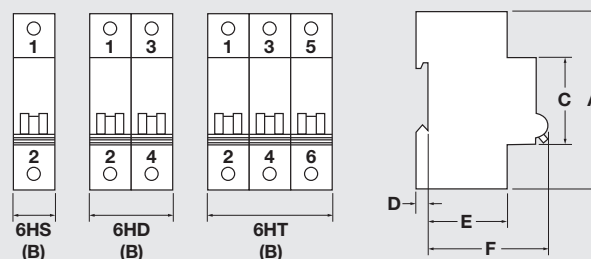
TYPE A DISTRIBUTION BOARDS & GP ENCLOSURES

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



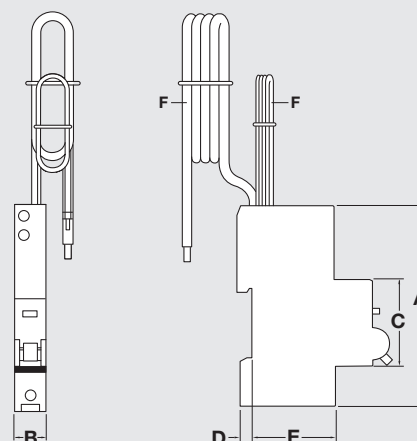
MINIATURE CIRCUIT BREAKERS (MCBs)

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



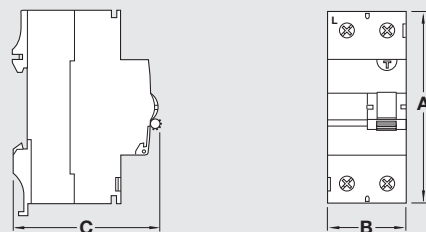
LOADSTAR RCBOs (SINGLE MODULE)

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



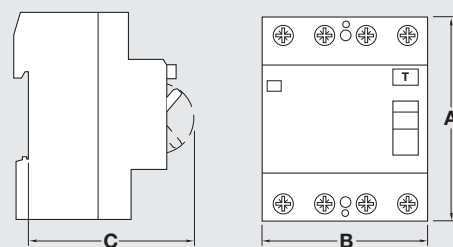
2 MODULE RESIDUAL CURRENT CIRCUIT BREAKERS

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

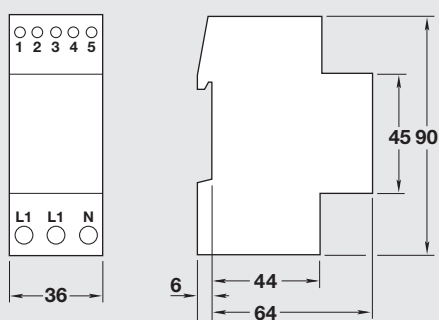


4 MODULE RESIDUAL CURRENT CIRCUIT BREAKERS

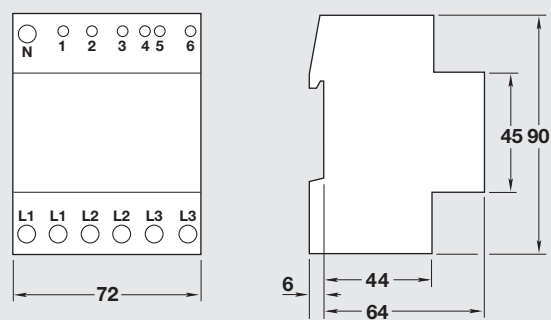
List No		A	B	C
18R100/.../4	85	70	68	



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 ²
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 ²

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 ²

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 ²

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

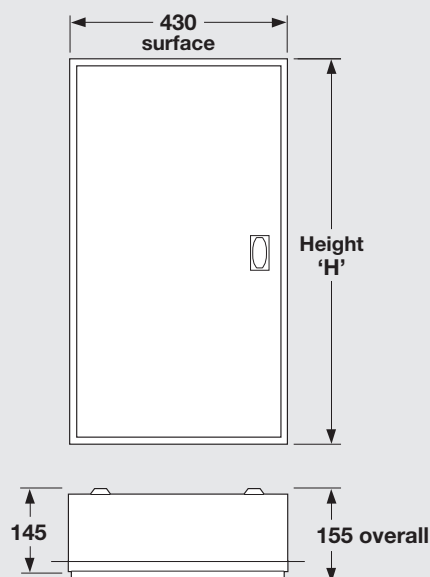
Add-on enclosures

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

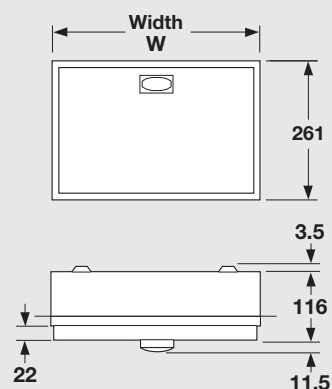


TECHNICAL DATA POLESTAR COMPACT

TYPE A DISTRIBUTION BOARDS

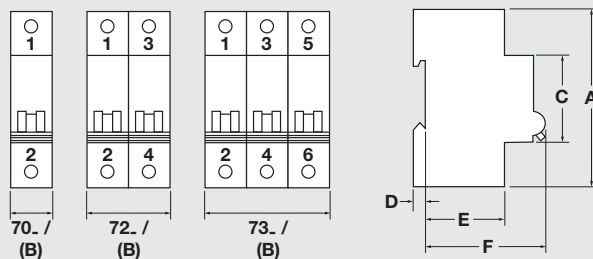
List No.	W	List No.	W	List No.	W	List No.	W
18PSC05/21A	188	18PSC05/33A	188	18PSC05/31A	188	18PSC10/S413A	343
18PSC08/21A	242	18PSC08/33A	242	18PSC08/31A	242	18PSC10/S513A	343
18PSC11/21A	293	18PSC11/33A	293	18PSC11/31A	293	18PSC10/S613A	343
18PSC14/21A	343						
18PSC19/21A	438						
18PSC28/21A*	343						

* 2 Bank Unit H = 500mm



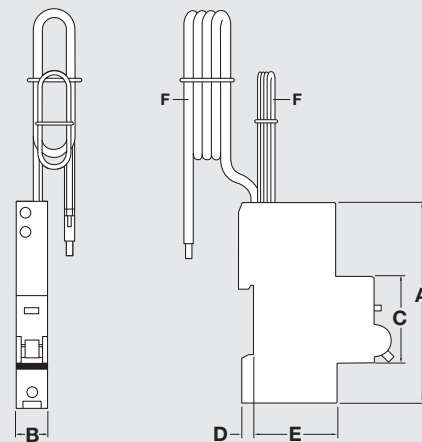
MINIATURE CIRCUIT BREAKERS (MCBs)

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



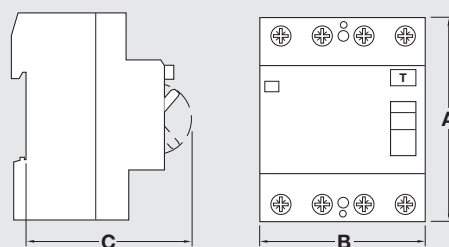
POLESTAR COMPACT RCBOs (SINGLE MODULE)

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



4 MODULE RESIDUAL CURRENT CIRCUIT BREAKERS

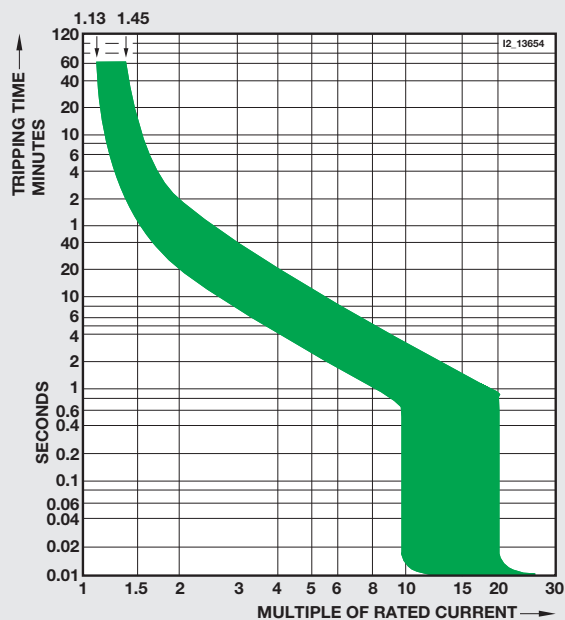
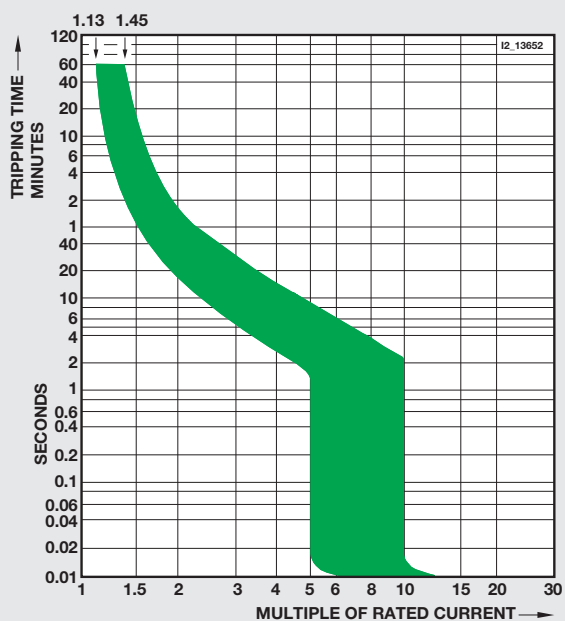
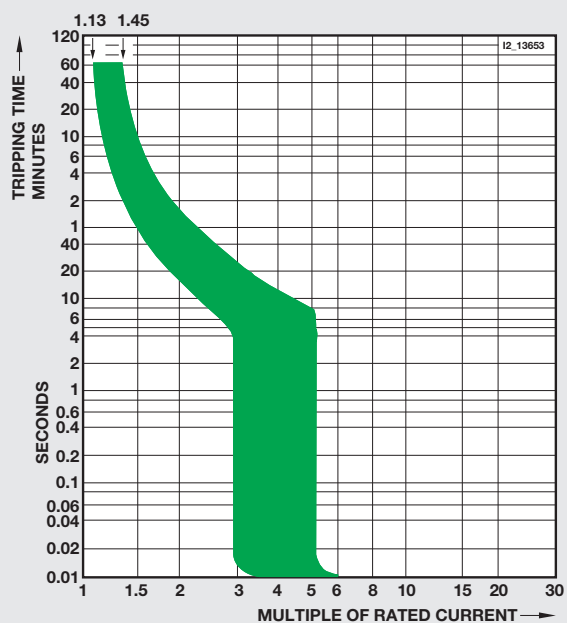
List No	A	B	C
241/ - - -	85	70	68



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

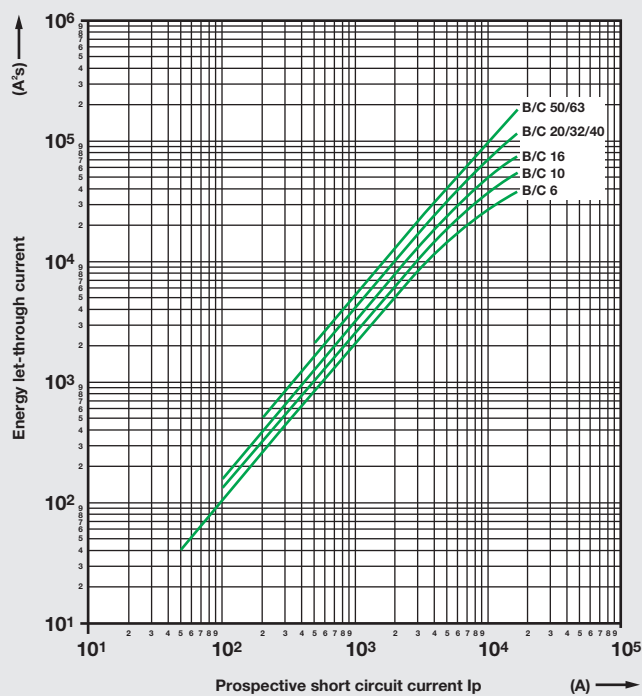


Tripping Characterteristics

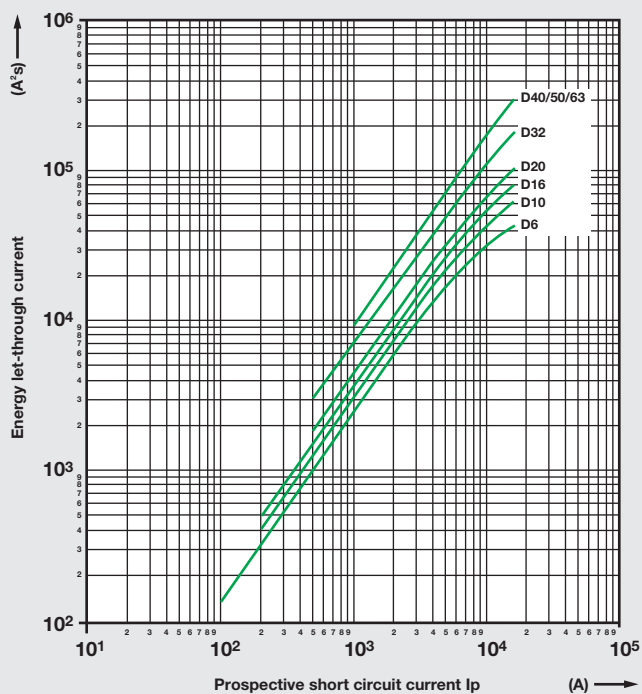


POLESTAR COMPACT MINIATURE CIRCUIT BREAKER - Earth loop Impedance Values

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 0.75 NC	–	2 1 0	0 1 2	1 Mod [CIK22-20 CIK22-11 CIK22-02
CIK24	25	2.2 1.3*	4	4 3 2 0	0 1 2 4	2 Mod [CIK24-40 CIK24-31 CIK24-22 CIK24-04
CIK40	40	5.5 3.7*	11	4 3 2 0	0 1 2 4	3 Mod [CIK40-40 CIK40-31 CIK40-22 CIK40-04
CIK63	63	8.5 5.0*	15	4 2	0 2	3 Mod [CIK63-40 CIK63-22
Auxiliary Contacts (CIK40 & 63 Only)						
	230V 400V AC15					
	6 4	–	–	1 2	1 0	CHHSLA11 CHHSLA20

* 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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