

# CONTACTUM



DEFENDER

## Defender B Board

Contactum's range of enclosed LV distribution equipment offering standard or special purpose control systems to meet all applications



# CONTACTUM

Founded in 1936 we have always based our values on Quality & Safety underpinned with the knowledge that **design is everything.**

With the technical expertise of **alfanar**, our parent company, we have continued this tradition with the development of Defender B Board and added some new benchmarks of exceptional aesthetics to seamlessly blend in to modern living environments coupled with outstanding features and benefits to aid designers, installers and specifiers.

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Contactum is a subsidiary company to alfanar.

alfanar is a global company headquartered in Riyadh (KSA), primarily engaged in the manufacturing and trading of a wide variety of low, medium, and high voltage electrical products, in addition to its portfolio of conventional and renewable energy solutions, oil and gas, water treatment, infrastructure, technical services, digital solutions, and electronics engineering.

The hub of alfanar's manufacturing operations is Medinet alfanar Alsinaiya (alfanar Industrial City), a 700,000 square-meter complex located in Riyadh.

The complex houses an array of ultra-modern manufacturing facilities and laboratories equipped with state-of-the-art technologies and staffed with highly skilled professionals. In addition, alfanar has a network of manufacturing and distribution facilities around the world that includes: Contactum (UK), Kopp (Germany, Tunisia) and ZIV (Spain, India, Ireland/UK, Brazil), EA (Italy), SFA Electric (Turkey), alfanar Electrical Systems (UAE) and alfanar Engineering Services (India).



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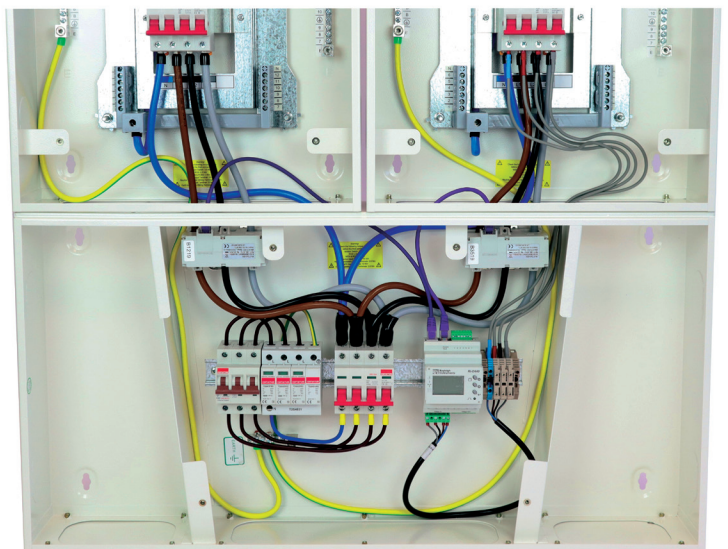
# Split Load Lighting & Power Distribution Boards

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For compliance with Part L2 of the building regulations in non-domestic installations.

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Our 125A Split Load Extension Enclosure allows our standard Defender B Board to be configured in a horizontal arrangement as a Dual Metered Lighting & Power Board which answers the needs for compliance with the latest building regulations sub-metering requirements.



We offer a comprehensive suite of products for a cost-effective solution including Single and Dual Channel Metering kits in standard or MID approved and Surge Protection kit for a fully configurable and flexible approach.

“  
**The Contactum Defender B Boards are perfect in size, the Split Load Power & Lighting Boards provide a great space saving solution for installations within service cupboards.**  
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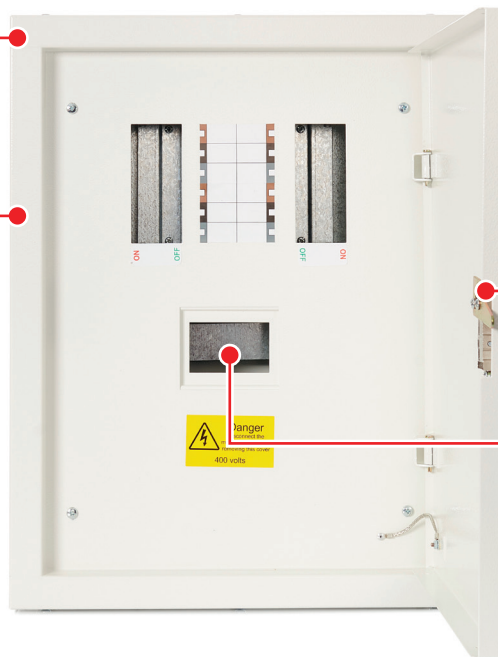
# Product Features

Defender B Board

## Distribution Board

1.2mm electro galvanised sheet steel

Polyester powdered finish  
RAL-9016



Door locking feature

Choice of:



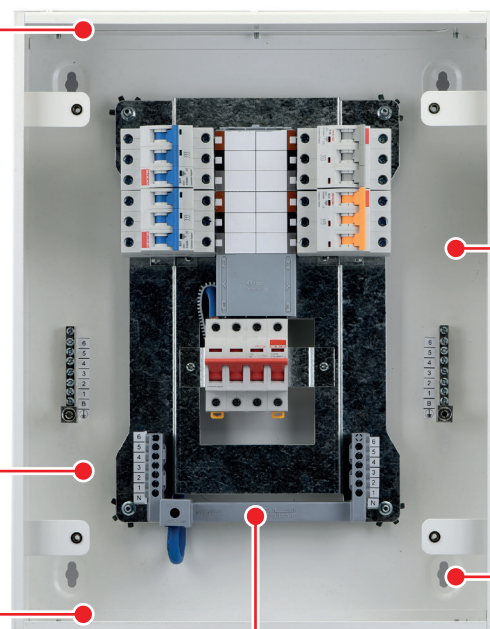
125A 4 pole isolator



100A 4 pole  
Type A RCDs

Removable Gland plates  
1.2mm, top and bottom

Removable pan assembly



Spacious enclosure  
For easy wiring



Keyhole fixing points

Fully shrouded neutral terminal



# Extension Enclosure

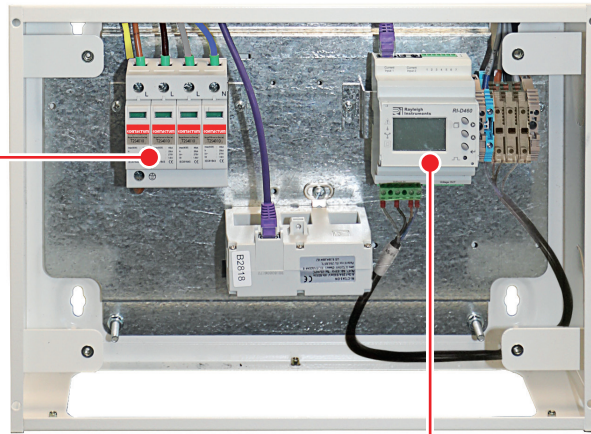
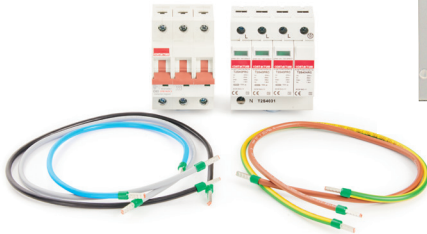
## Optional add on extension enclosure, meter and surge arrestor

Metering and surge arrestor kits are supplied complete with all accessories and cabling to fully install into the B Board



## Surge Arrestor Kit

Type 2 40kA Protection Device



## Metering Kit MID approved

Options available



## Technical Details:

- Tin plated busbar, improved connection, prevention of copper oxidisation
- Fully shrouded neutral terminals
- 4 to 16 triple pole ways
- Single phase conversion kit
- Busbar short circuit withstand rating Icw 20ka 0.25s
- IP4X with door and DFC fitted
- IP2X with all devices and blanks fitted with covers off





# Distribution Boards

## TP & N Distribution Boards

### 4 - 16 Way:

Provision for Iso/RCD

Type B Board Rated 125A



### 125A Rating

#### Size:

4 Way  
6 Way  
8 Way  
12 Way  
16 Way

#### Product Code:

DDB125PIR04  
DDB125PIR06  
DDB125PIR08  
DDB125PIR12  
DDB125PIR16

## Dimensions:

	4 Way	6 Way	8 Way	12 Way	16 Way
Height (H) mm	532	586	640	748	856
Width (W) mm	415	415	415	415	415
Depth (D) mm	120	120	120	120	120

## Technical Data for Defender B Board:

Compliance standard	IEC 61439-3	Supply frequency	50 Hz
Product colour	RAL 9016 textured, powder coated polyester	Busbar rating: maximum rating	125A
No of outgoing triple pole ways	4,6,8,12,16	Rated short time withstand current (Icw)	20KA - 0.25s
Mounting type	Surface	Rated impulse withstand voltage (Uimp)	4kV
IP rating BS EN 60529	IP 4X	Incoming isolator	4 pole (3 phase and neutral)
Pollution degree	3	Enclosure	1.2 mm galvanised steel
Installation location	Inside	Busbar	Tin plated ETP Cu (2 layers)
Average ambient temperature	35 °C	Neutral terminals: shrouded	Brass tin plated
Operating temperature range	(-5 °C to 40 °C)	Earth terminals	Brass tin plated
Altitude	Up to 2000m (no derating)	Door latch, with key	Metallic
Electrical supply type	3 phase AC		
Maximum operating voltage	415 VAC		



# Main Incomers

## Isolator



### 125A Rating

**Size:**

125A 4P Isolator

**Product Code:**

CPD1254

### Technical Data for Isolator:

Standard	EN / IEC60947-3	Mechanical endurance	10000
Rated currents	125A	Type of terminal	Lug type and Pin type
Rated voltage	4 pole 400 AC 50/60Hz	Terminal capacity	Cables up to 50mm <sup>2</sup>
Utilization category	AC-22A	Ambient temperature (°C)	-50C to +40oC, Max.95% humidity
Icw	12Ie, t=0.1s	Storage temperature (°C)	-40~+75
Rated short-circuit making capacity Icn	20Ie, t=0.1s	Altitude (meters)	Max. 2,000
Rated making & breaking capacity	3Ie, 1.05Ie, COS =0.65	Protection degree	IP20
Rated insulation voltage Ui	690V	Installation	Mounting on 35mm DIN rail
Rated impulse withstand voltage Uimp	4000V	Module Width	17.8mm per pole x4
Electrical endurance	1500		

## RCD

### 30 - 300mA:

100A 4P

RCD Type A



### 100A Rating

**Size:**

30mA

100mA

300mA

100mA + Time Delay

300mA + Time Delay

**Product Code:**

CPR100003A

CPR100010A

CPR100030A

CPR100010AT

CPR100030AT

### Technical Data for RCD:

Standard:	IEC/EN 61008-1	Mechanical endurance:	20000
Rated current:	100A	Terminals:	Lug type and Pin type
Rated voltage:	400/415VAC	Cable termination:	35mm
Rated short circuit:	10kA	Number of poles:	3P+N (4P)
Rated residual current:	30mA, 100mA, 300mA	Protection degree:	IP20
Rated frequency:	50/60Hz	Maximum operating temperature:	-5°C to +40°C
Electrical endurance:	10000		



# Extension Enclosures

## Extension Enclosures



Product:	Dimension:	Product Code:
DDB Metering / Surge Protection Enclosure (1)	(1)	DDB-M/SENC

Extension Enclosure can be fitted with either:

- 1 x Single Channel Metering Kit
- 1 x Surge Arrestor Kit

or can be fitted with both:

- 1 x Single Channel Metering Kit **AND** 1 x Surge Arrestor Kit



Product:	Dimension:	Product Code:
DDB Split Load Enclosure (2)	(2)	DDB-SLENC

Extension Enclosure can be fitted with either:

- 1 x Dual Channel Metering Kit
- 1 x Surge Arrestor Kit

or can be fitted with both:

- 1 x Dual Channel Metering Kit **AND** 1 x Surge Arrestor Kit



Product:	Dimension:	Product Code:
DDB Cable Extension Enclosure (3)	(3)	DDB-CEENC

DDB 14 Modular Extension Enclosure (4)	(4)	DDB-MSB14
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## Dimensions:

	(1)	(2)	(3)	(4)
Height (H) mm	316	416	316	316
Width (W) mm	415	831	415	415
Depth (D) mm	126	126	126	126

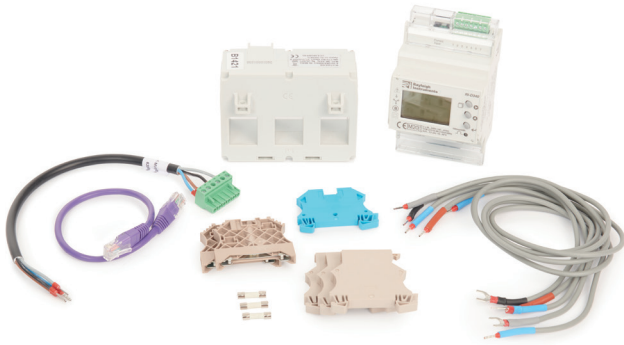




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### Metering Kits

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**Product:**

Single Channel MID Meter Kit  
Single Channel Check Meter (Non MID) Kit  
Dual Channel MID Meter Kit  
Dual Channel Check Meter (Non MID) Kit

**Product Code:**

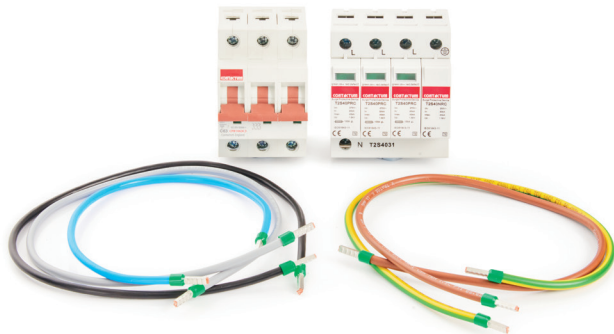
DDB-SCMIDMKIT  
DDB-SCMKIT  
DDB-DCMIDMKIT  
DDB-DCMKIT

*Supplied complete with Metering Power kit plus plug and play connections between Meter and CT*

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### Surge Arrestor Kits

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**Product:**

Type 2 40kA 3+1 Surge Arrestor Kit  
Type 2 40kA 3+1 Surge Arrestor Kit for DDBSLENC

**Product Code:**

DDB-T2S4031KIT  
DDB-T2S4031KITSL

*Supplied complete with Type 2 Surge Arrestor, 63A 3 pole MCB, uses 1 three phase way within the board*

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Technical data, please refer to the website:  
[www.contactum.co.uk](http://www.contactum.co.uk)

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## MCB Single or Triple Pole 10kA B, C and D Curve

**6A - 63A:**  
10kA SP  
B, C & D Curve



Rating:	Product Code:	B, C or D:	Single (SP) or triple (TP) pole:
06A	CPB1006	-	-
10A	CPB1010	-	-
16A	CPB1016	-	-
20A	CPB1020	-	-
25A	CPB1025	-	-
32A	CPB1032	-	-
40A	CPB1040	-	-
50A	CPB1050	-	-
63A	CPB1063	-	-

**Example:**  
CPB1016 B  
or  
CPB1016 B3

**Add code:**  
B, C or D  
for Curve  
type

**Add code:**  
3 for TP  
(No code needed for SP)

### Technical Data for MCB:

Standard	Confirming to IEC/BS EN60898-1	Number of poles	1P, 3P
Breaking capacity	10kA	Type of trip	Thermal / magnetic release
Protection	Against overload and short circuit	Type of terminal	Lug type and Pin type
Rated current In	6, 10, 16, 20, 25, 32, 40, 50, 63A	Terminal capacity	16mm <sup>2</sup> flexible or 25mm <sup>2</sup> rigid up to 25A ratings 25mm <sup>2</sup> flexible or 35mm <sup>2</sup> rigid for 32A to 63A ratings
Rated voltage	1pole 230 AC 50/60Hz, Rated insulation voltage Ui: 500V, Rated impulse withstand voltage Uimp: 6000V, Energy limiting class: 3	Protection degree	IP20
Ambient temperature	-50C to +40oC pursuant to BS EN / IEC60898	Installation	Mounting on 35mm DIN rail
Characteristic	Thermal operating limit: (1.13-1.45) x In Magnetic operating: B: (3-5) x In C: (5-10) x In D: (10-20) x In	Torque (N.m)	2
		Width	17.5mm per pole

## eRCBO 1P 10kA Compact B and C Curve

**6A - 40A:**  
10kA Type A B & C  
Curve SP eRCBO



Product Code:	Rating:	B or C:
CCPBR10	06A	-
CCPBR10	10A	-
CCPBR10	16A	-
CCPBR10	20A	-
CCPBR10	25A	-
CCPBR10	32A	-
CCPBR10	40A	-

**Example:**  
CCPBR10 20A B

**Add code:**  
06A - 40A  
For rating

**Add code:**  
B or C  
for Curve  
type

### Technical Data for eRCBO:

Standard	IEC/BS EN61009	Characteristic	B,C
Breaking Capacity	10kA	Electrical endurance	10000
Number of poles	1P+N (1 module - fixed neutral)	Mechanical endurance	20000
Rated currents	6, 10, 16, 20, 25, 32, 40A	Ambient temperature	-50C to +40oC, Max. 95%humidity
Rated voltage	230VAC	Connection terminal	Flexible 16mm <sup>2</sup> , Rigid 25mm <sup>2</sup>
Rated Tripping Current	30mA	Type of terminal	Lug type and Pin type
Residual Operating Characteristics	A	Module Width	17.8mm /module
Residual Current Disconnection Time	≤0.1s	Torque N.m	2



## eRCBO 2P 10kA B and C Curve

**6A - 63A:**  
30mA 10kA  
2P RCBO

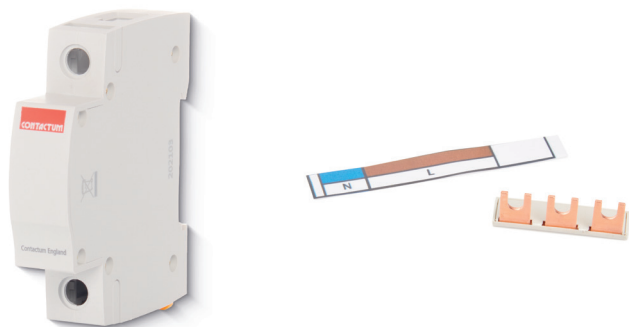


Rating:	Product Code:	B or C:
06A	CCPBR10062A	
10A	CCPBR10102A	-
16A	CCPBR10162A	-
20A	CCPBR10202A	-
25A	CCPBR10252A	-
32A	CCPBR10322A	-
40A	CCPBR10402A	-
50A	CCPBR10502A	-
63A	CCPBR10632A	-
<b>Example:</b> CCPBR10102A <b>B</b>		<b>Add code: B or C for Curve type</b>

### Technical Data for eRCBO:

Number of Poles	2P (2 module)	Mechanical Endurance	20000
Rated Current(In)	6, 10, 16, 20, 25, 32, 40, 50, 63A	Electrical Endurance	10000
Rated Voltage(Un)	230/240VAC	Frequency	50/60Hz
Rated Short-circuit Capacity	Icn= 10kA Ics=7.5kA	Dielectric Strength	2500V
Rated Residual Making and Breaking Capacity	IΔm=10kA	Cable Termination	25mm <sup>2</sup>
Magnetic Tripping Characteristics	B,C	Torque Nm	2Nm
Residual Tripping Characteristics	A	IP degree	IP20
Rated Residual Operating Current	30mA	Standards	IEC/BS EN 61 009-1

## Accessories



Product:	Product Code:
MCB/RCBO Toggle Locking Device (New Design)	DCA10
Type DDB MCB Blank	CPBM1
B Board Kit of 2 Gland Plates	DDB-GP
125A 4P Isolator Single Phase Conversion Kit <i>(Can only be used with 4P 125A Isolator)</i>	DDB1254ISPCK

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# Defender B Board

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## CONTACTUM

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[www.contactum.co.uk](http://www.contactum.co.uk)

020 8208 7419

[sales@contactum.co.uk](mailto:sales@contactum.co.uk)

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Scan me for more info on our website



DBBB - RevLev02



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