

# CONTACTUM



DEFENDER

## Defender B Board

A comprehensive range of enclosed LV distribution boards and control equipment for all applications. Designed and tested to BS EN 61439-3 for assured safety, compliance, and performance.

# CONTACTUM

Established in 1936, Contactum is a proud British brand with a distinguished heritage in the electrical industry. For nearly a century, we have been a trusted name in the supply of wiring accessories, circuit protection devices, and control products across residential, commercial, and industrial sectors.

Our reputation has been built on a foundation of quality, safety, and a design-led approach, with a focus on delivering products that meet the unique demands of the UK market.



To support our commitment to excellence, Contactum operates an ISO Integrated Management System, covering quality (ISO 9001), environmental (ISO 14001), and occupational health & safety (ISO 45001) standards. This ensures that every aspect of our operations – from product development to customer service – is underpinned by internationally recognised best practices.

Further reinforcing our dedication to sustainability and corporate responsibility, Contactum has recently been awarded a medal-level rating by Eco Vadis, a leading global assessment platform for environmental, social, and ethical performance.

## alfanar

As part of the alfanar group, Contactum benefits from the backing of a global leader in electrical manufacturing, energy, and infrastructure. Headquartered in Riyadh, Saudi Arabia, alfanar brings world-class scale, engineering excellence, and advanced production capabilities to the partnership.

A large proportion of Contactum's product offering is manufactured at alfanar Industrial City – a cutting-edge 700,000 square metre facility in Riyadh. This ISO-certified complex is equipped with automated production lines, quality testing laboratories, and R&D centres, staffed by skilled professionals committed to delivering consistent quality and innovation across all markets.

Offering the latest solution-led wiring accessories to award-winning consumer units and commercial switchgear, Contactum delivers reliable, specification-grade electrical solutions designed to meet the evolving needs of electricians, contractors, wholesalers, and specifiers.

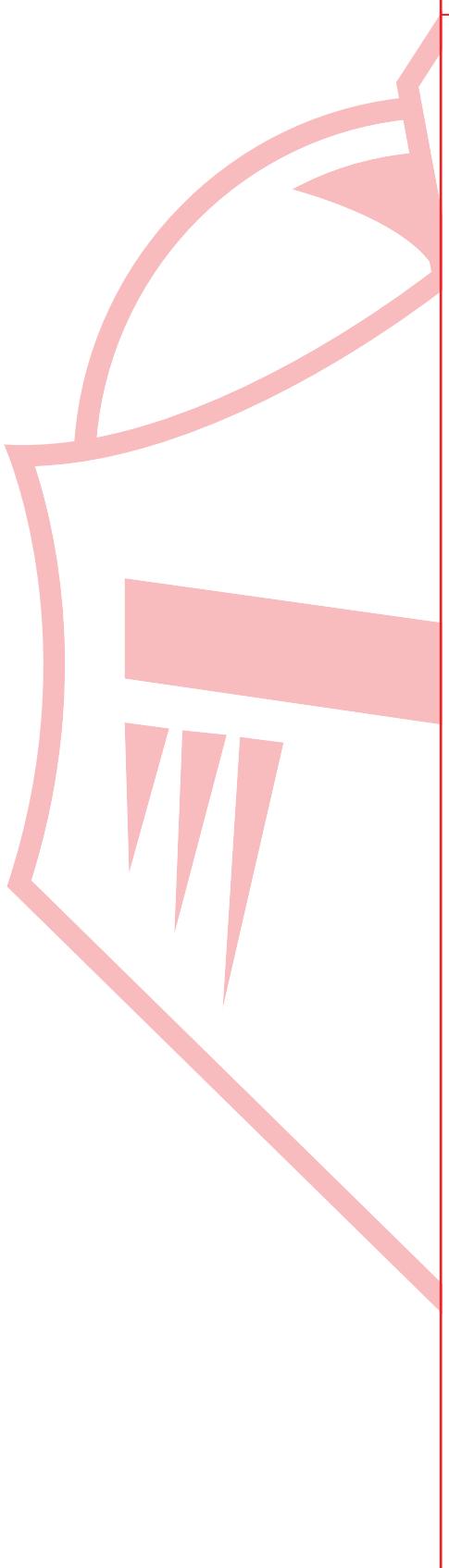
We pride ourselves on combining performance, compliance, and visual appeal across our ranges, supported by robust technical expertise and responsive customer service.



This achievement highlights our continuous efforts to operate transparently, reduce environmental impact, and promote responsible business practices throughout our supply chain.



By combining the local insight and agility of a UK-based brand with the scale, resources, and innovation of a global manufacturing group, Contactum remains uniquely positioned to serve the needs of the modern electrical market. Whether supporting new build developments, refurbishment projects, or infrastructure upgrades, Contactum continues to deliver dependable solutions trusted by professionals across the UK and beyond.



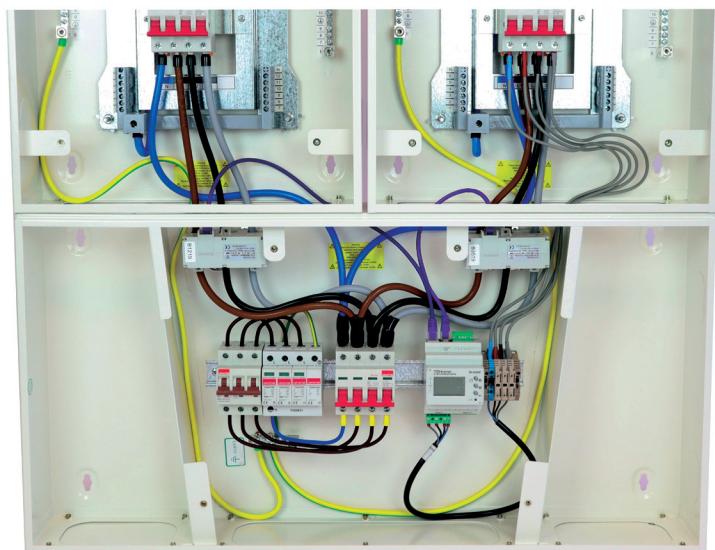
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# Split Load Power & Lighting Distribution Boards

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

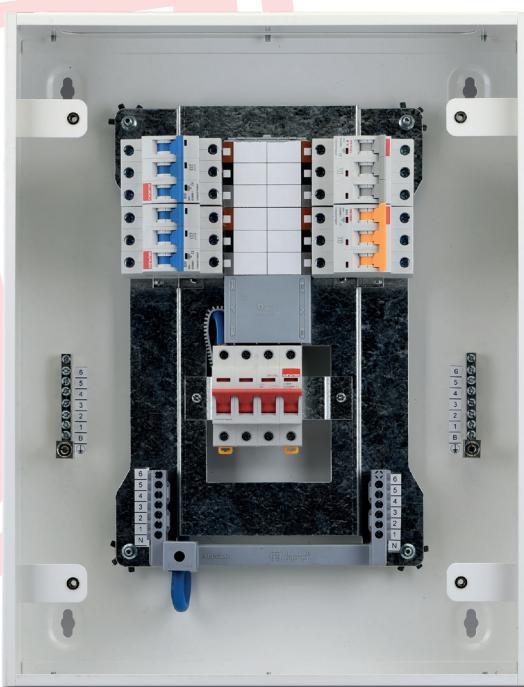
Our 125A Split Load Extension Enclosure allows our standard Defender B Board to be configured in a horizontal arrangement as a Dual Metered Lighting & Power Board which answers the needs for compliance with the latest building regulations sub-metering requirements.



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.**

# Product Features



## Defender B Board 125A Distribution Board



Door locking feature

### Choice of:



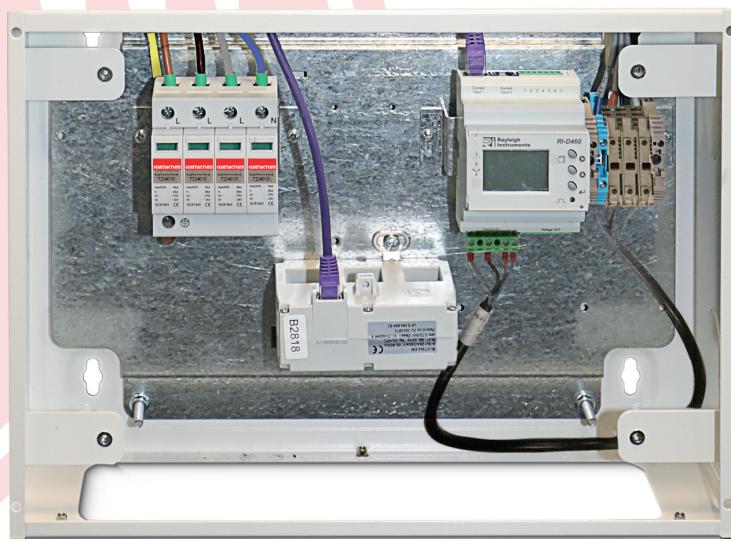
125A 4 pole isolator



100A 4 pole Type A RCDs

- + 1.2mm electro galvanized sheet steel
- + Polyester powdered finish  
RAL-9016
- + Removable Gland plates  
1.2mm, top and bottom
- + Fully shrouded neutral terminal
- + Keyhole fixing points
- + Removable pan assembly
- + Spacious enclosure  
For easy wiring

# Product Features



## Defender B Board 125A Extension Enclosure

### Surge Arrestor Kit

Type 2 40kA Protection Device



### Metering Kit MID approved

Options available



- + 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

# Distribution Boards



## TP & N Distribution Boards

### 4 - 16 Way:

Provision for Iso/RCD

Type B Board Rated 125A



### 125A Rating

#### Size:

4 Way

#### Product Code:

DDB125PIR04

6 Way

DDB125PIR06

8 Way

DDB125PIR08

12 Way

DDB125PIR12

16 Way

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 (Uiimp)	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
Rated currents	125A
Rated voltage	4 pole 400 AC 50/60Hz
Utilization category	AC-22A
low	12le, t=0.1s
Rated short-circuit making capacity Icn	20le, t=0.1s
Rated making & breaking capacity	3le, 1.05Ue, COS =0.65
Rated insulation voltage Ui	690V
Rated impulse withstand voltage Uimp	4000V
Electrical endurance	1500

Mechanical endurance	10000
Type of terminal	Lug type and Pin type
Terminal capacity	Cables up to 50mm <sup>2</sup>
Ambient temperature (oC)	-5oC to +40oC, Max.95% humidity
Storage temperature (oC)	-40~+75
Altitude (meters)	Max. 2,000
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Module Width	17.8mm per pole x4

## RCD

### 30 - 300mA:

100A 4P  
RCD Type A



100A Rating

Size:	Product Code:
30mA	CPR100003A
100mA	CPR100010A
300mA	CPR100030A
100mA + Time Delay	CPR100010AT
300mA + Time Delay	CPR100030AT

### Technical Data for RCD:

Standard	IEC/EN 61008-1
Rated current	100A
Rated voltage	400/415VAC
Rated short circuit	10kA
Rated residual current	30mA, 100mA, 300mA
Rated frequency	50/60Hz
Electrical endurance	10000

Mechanical endurance	20000
Terminals	Lug type and Pin type
Cable termination	35mm
Number of poles	3P+N (4P)
Protection degree	IP20
Maximum operating temperature	-5°C to +40°C

# Extension Enclosures



## Extension Enclosures



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

Extension Enclosure can be fitted with either:  
1x Single Channel Metering Kit  
1x Surge Arrestor Kit

or can be fitted with both:  
1x Single Channel Metering Kit AND 1 x Surge Arrestor Kit



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

Extension Enclosure can be fitted with either:  
1x Dual Channel Metering Kit  
1x Surge Arrestor Kit

or can be fitted with both:  
1x Dual Channel Metering Kit AND 1 x Surge Arrestor Kit



Product:	Dimension:	Product Code:
DDB Cable Extension Enclosure	(3)	DDB-CEENC
DDB 14 Modular Extension Enclosure	(4)	DDB-MSB14

\*DDB-MSB14 – To be installed to top of the distribution board



### 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

# Extension Enclosure Accessories



## Metering Kits



### Product:

### Product Code:

Single Channel MID Meter Kit

DDB-SCMIDMKIT

Single Channel Check Meter (Non MID) Kit

DDB-SCMKIT

Dual Channel MID Meter Kit

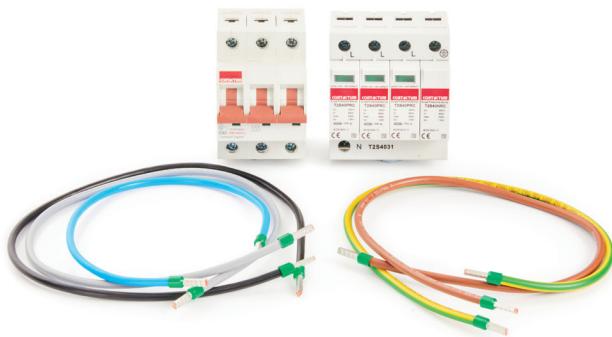
DDB-DCMIDMKIT

Dual Channel Check Meter (Non MID) Kit

DDB-DCMKIT

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

## Surge Arrestor Kits



### Product:

### Product Code:

Type 2 40KA 3+1 Surge Arrestor Kit

DDB-T2S4031KIT

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

DDB-T2S4031KITSL

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

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

# Product Features



## Defender B Board 250A Distribution Board

- + Removable top and bottom gland plates
- + Lockable front cover
- + Fully shrouded neutral terminal
- + Removable pan assembly
- + Incoming neutral disconnecting link
- + Provision for SPD & Metering within the enclosure
- + 250A busbar lcw 35kA @ 200ms
- + Fully type tested to IEC/BS EN 61439-3
- + 6 to 24 triple pole ways
- + 10kA single pole and triple pole MCBs
- + 10kA Compact RCBOs

## Incomer kits include:

- + 3P or 4P MCCB switch disconnector
- + 3P or 4P MCCB 50kA with adjustable thermal & magnetic release
- + 4P MCCB 50kA with type B adjustable earth leakage

# Distribution Boards



## TP & N Distribution Boards

### 6 - 24 Way:

Provision for ISO/MCCB/MTR/SPD

Type B Board Rated 250A



250A Rating

Size:	Product Code:
6 Way	DDB250MSR06*
8 Way	DDB250MSR08*
10 Way	DDB250MSR10
12 Way	DDB250MSR12
16 Way	DDB250MSR16
20 Way	DDB250MSR20*
24 Way	DDB250MSR24*

\*Extended range to be available Q3, 2025



### Dimensions:

	6 Way	8 Way	10 Way	12 Way	16 Way	20 Way	24 Way
Height (H) mm	800	854	908	962	1070	1177	1285
Width (W) mm	460	460	460	460	460	460	460
Depth (D) mm	150	150	150	150	150	150	150

## Technical Data for Defender B Board:

Compliance standard	IEC 61439-3	Maximum operating voltage	415 VAC
Product colour	RAL 9016 textured, powder coated polyester	Supply frequency	50 Hz
No of outgoing triple pole ways	6,8,10,12,16,20,24	Busbar rating: maximum rating	250A
Mounting type	Surface	Rated short time withstand current (low)	30kA @ 250ms or 35kA @ 200ms
IP rating BS EN 60529	IP 3XD	Rated impulse withstand voltage (Uiimp)	4kV
Pollution degree	2	Incoming isolator	4 pole (3 phase and neutral)
Installation location	Inside	Enclosure	1.2 mm galvanised steel
Average ambient temperature	35 °C	Busbar	Tin plated ETP Cu (2 layers)
Operating temperature range	(-5 °C to 40 °C)	Neutral terminals: shrouded	Brass tin plated
Altitude	Up to 2000m (no derating)	Earth terminals	Brass tin plated
Electrical supply type	3 phase AC	Door latch, with key	Metallic

# Main Incomers



## QM5G Switch Disconnector

Product:	Product Code:
250A 3P Disconnector Icw 3.5KA 250AF	QM5G-250-250-3P
250A 4P Disconnector Icw 3.5KA 250AF	QM5G-250-250-4P



### Technical Data for QM5G Switch Disconnector

Standard	EN/IEC 60947-1, EN/IEC 60947-3
Number of poles	3, 4
Rated Current (In) A	250
Rated operational voltage Ue(V) 50/60Hz	AC400, 690, DC500/750 (3P in series), DC750/1000 (4P in series)
Rated insulation voltage Ue(V) Ui(V)	1000
Rated impulse withstand voltage Uimp(kV)	8
Short-circuit making capacity Icm(kA)	4.9
Rated short time withstand current Icw/1s(A)	3500
Utilization category	AC-22A(AC690V), AC-23A(AC400V), DC-23A(DC1000V)

Type of Terminal	Lug type
Terminal Capacity	M8
Terminal Torque (Nm)	8.8-10.8
Ambient Temp (Storage)	-25C ~ +55C (at the ambient 25C <95% humidity)
Ambient Temp (Installation)	-5C ~ +40C (Avg no more than +35C in 24hrs)
Altitude (meters)	Max 2000
Pollution Degree	3
Installation orientation	Vertically or Horizontally
Device Width 3P/4P WxLxH (mm)	105/140x165x85

## QM5 Molded Case Circuit Breaker

Product:	Product Code:
250A 3P TMD 50KA MCCB 250AF	QM5-250L-250-3P
250A 4P TMD 50KA MCCB 250AF	QM5-250L-250-4P



### Technical Data for QM5 Molded Case Circuit Breaker

Standards	EN/IEC 60947-1, EN/IEC 60947-2
Number of Poles	3, 4
Rated Current (In) A	250
Rated operational voltage Ue(V) 50/60Hz	AC400/AC440/AC690
Rated insulation voltage Ue(V) Ui(V)	1000
Rated impulse withstand voltage Uimp(kV)	8
Rated ultimate short-circuit breaking capacity Icu(kA)	50kA at 400V AC 50/60 Hz, 50kA at 440V AC 50/60 Hz
Rated service short-circuit breaking capacity Ics(kA)	Ics = 100% Icu
Utilization category	A

Type of Terminal	Lug type
Terminal Capacity	M8
Terminal Torque (Nm)	8.8-10.8
Ambient Temp (Storage)	-25C ~ +55C (at the ambient 25C <95% humidity)
Ambient Temp (Installation)	-5C ~ +40C (Avg no more than +35C in 24hrs)
Altitude (meters)	Max 2000
Pollution Degree	3
Installation orientation	Vertically or Horizontally
MCCB Release Type	Thermal/Magnetic adjustable 1.0-0.8
Device Width 3P/4P WxLxH (mm)	105/140x165x85

## QM5L Earth Leakage Circuit Breaker

Product:	Product Code:
250A 4P TMD 50KA MCCB RCD 250AF	QM5L-250-250-4P*

\*Extended range to be available Q3, 2025



### Technical Data for QM5L Earth Leakage Circuit Breaker

Standards	EN/IEC 60947-1, EN/IEC 60947-2
Number of Poles	4
Rated Current (In) A	250
Rated operational voltage Ue(V) 50/60Hz	AC400/AC440
Rated insulation voltage Ue(V) Ui(V)	800
Rated impulse withstand voltage Uimp(kV)	8
Rated ultimate short-circuit breaking capacity Icu(kA)	50kA at 400V AC 50/60 Hz, 50kA at 440V AC 50/60 Hz
Rated service short-circuit breaking capacity Ics(kA)	Ics = 100% Icu
Utilization category	A
Type of Terminal	Lug type
Terminal Capacity	M8
Terminal Torque (Nm)	8.8-10.8

Ambient Temp (Storage)	-25C ~ +55C (at the ambient 25C <95% humidity)
Ambient Temp (Installation)	-5C ~ +40C (Avg no more than +35C in 24hrs)
Altitude (meters)	Max 2000
Pollution Degree	3
Installation orientation	Vertically or Horizontally
MCCB Release Type	Thermal/Magnetic adjustable 1.0-0.8
RCD Type	B
Rated residual operating current $\Delta n(A)$	0.05/0.1/0.15/0.2/0.3/0.5/1
Rated residual non-operating current $\Delta n_0(A)$	1/2 $\Delta n$
Rated short-circuit making and breaking capacity $\Delta m(kA)$	1/4 Icu
Adjustable time delay $\Delta t$ (ms)	0/100/200/300/400/500/1000
Device Width WxLxH (mm)	140x165x85

## Defender B Boards

### 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
Breaking capacity	10kA
Protection	Against overload and short circuit
Rated current In	6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated voltage	1pole 230 AC 50/60Hz. Rated insulation voltage Ui: 500V, Rated impulse withstand voltage Uimp: 6000V, Energy limiting class: 3
Ambient temperature	-5oC to +40oC pursuant to BS EN / IEC60898
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
Number of poles	1P, 3P

Type of trip	Thermal / magnetic release
Type of terminal	Lug type and Pin type
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
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
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
Breaking Capacity	10kA
Number of poles	1P+N (1 module - fixed neutral)
Rated currents	6, 10, 16, 20, 25, 32, 40A
Rated voltage	230VAC
Rated Tripping Current	30mA
Residual Operating Characteristics	A
Residual Current Disconnection Time	<0.1s

Characteristic	B,C
Electrical endurance	10000
Mechanical endurance	20000
Ambient temperature	-5oC to +40oC, Max. 95%humidity
Connection terminal	Flexible 16mm <sup>2</sup> , Rigid 25mm <sup>2</sup>
Type of terminal	Lug type and Pin type
Module Width	17.8mm /module
Torque N.m	2

## Defender B Boards

### 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	-

**Example:** CCPBR10102A **B**

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

### Technical Data for eRCBO:

Number of Poles	2P (2 module)
Rated Current(I <sub>n</sub> )	6, 10, 16, 20, 25, 32, 40, 50, 63A
Rated Voltage(U <sub>n</sub> )	230/240VAC
Rated Short-circuit Capacity	I <sub>cn</sub> = 10kA I <sub>cs</sub> =7.5kA
Rated Residual Making and Breaking Capacity	I <sub>Δm</sub> =10kA
Magnetic Tripping Characteristics	B,C
Residual Tripping Characteristics	A
Rated Residual Operating Current	30mA

Mechanical Endurance	20000
Electrical Endurance	10000
Frequency	50/60Hz
Dielectric Strength	2500V
Cable Termination	25mm <sup>2</sup>
Torque Nm	2Nm
IP degree	IP20
Standards	IEC/BS EN 61 009-1

### AFDD 10kA MCB or RCBO B and C Curve

#### 6A - 40A:

10kA Type A B & C Curve  
1 Mod AFDD RCBO and MCB



Product Prefix:	Function:	kA Rating:	Current Rating:	Trip curve B or C:	Model:
AFD	-	10	06A	-	-1
AFD	-	10	10A	-	-1
AFD	-	10	16A	-	-1
AFD	-	10	20A	-	-1
AFD	-	10	25A	-	-1
AFD	-	10	32A	-	-1
AFD	-	10	40A	-	-1

**Add code:**  
**B for MCB or**  
**R for RCBO**

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

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

**Example:** AFD R 10 25A B -1

### Technical Data for AFDD

Standard	IEC/BS EN 62606, IEC/BS EN 61009-1
Breaking Capacity	10kA
Number of poles	1P+N (1 module)
Rated currents	6, 10, 16, 20, 25, 32, 40A
Rated voltage	230VAC
Rated Tripping Current	30mA
Residual Operating Characteristics	A
Residual Current Disconnection Time	≤0.1s

Characteristic	B,C
Electrical endurance	4000
Mechanical endurance	20000
Ambient temperature	-5°C to +40°C, Max. 95%humidity
Connection terminal	Flexible 16mm <sup>2</sup> , Rigid 25mm <sup>2</sup>
Type of terminal	Lug type and Pin type
Module Width	17.8mm /module
Torque N.m	2

### 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 (Can only be used with 4P 125A Isolator)	DDB1254SPCK

# Defender B Board

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**CONTACTUM**

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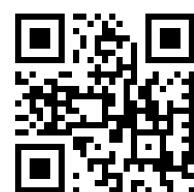
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