# CONTACTUM

# Defender 2.0 Consumer Units



CONTACTUM

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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 2.0 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.

**Circuit Protection** 

2

CONTACTUM

# **CONTACTUM** Defender 2.0

# NEW Generation of Consumer Units

The Defender 2.0 range of Consumer Units has been stylishly designed to seamlessly blend in with today's modern living environments whilst at the same time offering enhanced safety and complete compliance with the 18th Edition wiring regulations BS7671:2018. The new range now includes a dual row board in surface mount and we now offer flush mount consumer units. Pre-Populated with MCBs and factory fitted Surge Protection are also available along with an extensive range of accessories. We have also added new devices to our range including Compact RCBOs and Single Module AFDD/RCBO combination devices for enhanced protection.

All Defender 2.0 Consumer Units are packed with enhanced features and benefits some of the most important aspects are featured here –

- Tested by reputed third party in accordance with BS EN 61439-3: 2012 including Annex ZB
- Up to 100A (InA) rating
- Type A RCDs and RCBOs as standard
- Surface and Flush Mounted versions available
- Up to 24 modules single row
- 44 modules dual rows

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# 18th Edition

# Significant Changes

When the 18th Edition of the wiring regulations was released in 2018 there were significant changes that impacted the decisions made by manufacturers, designers and installers of consumer units and the incorporated circuit protection devices.

# (421.1.7) Arc Fault Detection

As a means of providing additional protection against fire caused by arc faults in AC final circuits, Arc fault detection devices conforming to IEC EN 62606 are recommended and Contactum have introduced a range to support this change.

## (443.4) Surge Protection

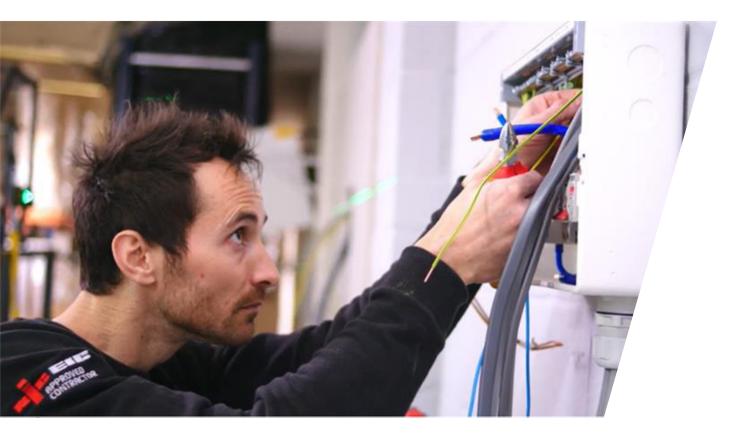
Protection against transient over-voltages shall be provided where consequences caused by over-voltages could result in serious injury to or loss of human life.... Although not a new addition to the wiring regulations, an emphasis has been put on the merits of installing SPDs and now these devices are becoming a standard inclusion within consumer units.

# (531.3.3) RCD Selection

Depending on their behaviour in the presence of DC components and frequencies, an appropriate RCD shall be selected from the different types of RCD that exist. With the growing number of electronic devices in the home Type A RCDs are now seen as the general standard and Contactum provide Type A as standard on all RCCBs and RCBOs.

## (536.4.3.2) Overload Protection of RCCBs & Switches

Devices of this nature do not normally provide protection against overload. These devices shall now be protected by an appropriately rated overcurrent protective device upstream of the RCCB or switch and be installed according to the manufacturers instructions. Overload protection of the switch or RCCB can now not be solely based on the use of diversity factors of the downstream circuits. Contactum provides clear InA ratings for every consumer unit and advise that this rating must not exceed the upstream OCPD rating.



# **Contactum** Circuit Protection Design Service

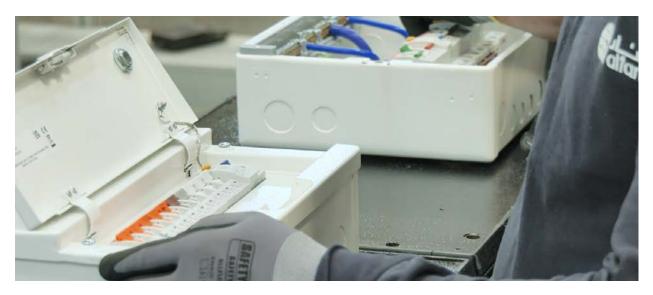
The Contactum design service for circuit protection allows you to create a bespoke design for factory assembled units to be supplied for your project. If your project requires a fully customised solution or specific outgoing devices pre-fitted then this service will be of benefit. It enables a highly reduced labour time on site while also ensuring continuity across your project.

Our team can help you to build the best configuration to suit your project. We will then assemble your boards ready for installation. Using standard and non standard Contactum devices and accessories we can supply your units fully assembled. All you need to do is contact our dedicated contractor sales team via the email address below. Discuss the requirement, agree a design configuration and confirm the quantities<sup>\*</sup>. We can then provide a unique quotation for your exact requirements. Once agreed and an order is placed via one of our selected distributor partners we will assemble and dispatch your boards ready for installation.

The design service is perfect for all project applications and we work closely with M&E Consultants, Electrical Contractors and Housing Developers for peace of mind guaranteed compliance and continuity across the project. \*Minimum order quantities apply

Dedicated Contractor Sales Team Fast turnaround time from enquiry to delivery Faster installation time Reduced labour costs Reduced waste from packaging No loose product on site Boards correctly configured Available for all circuit protection ranges

Call our Customer Service Team on Tel: 0208 208 7419 or email the Contractors Sales Team on contractors@contactum.co.uk



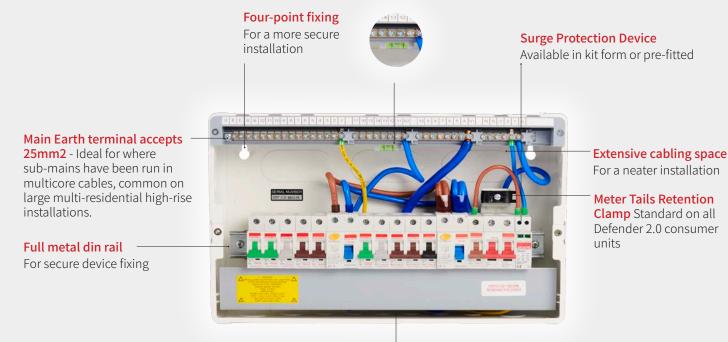
# Defender 2.0

Safe and Stylishly Designed Consumer Units

# NEW Generation of Surface & Flush Consumer Units

- 18th Edition Compliance
- Type test certificate issued by third party
- Compliant with BS EN 61439-3 including Annex ZB
- Up to 100A without Derating
- Icw 10kA 0.1 sec
- Icc 6kA and 10kA (Outgoings)
- Type A eRCBO complying to BS EN 61009-1
- Type A RCD complying to BS EN 61008-1
- MCB complying to BS EN 60898
- Surface and Flush Mounted versions available
- Up to 24 modules single row
- 44 modules dual rows
- Designed by Micieli





Snappable copper floating busbar with easy secure clipin busbar cover – For faster installation and maximum flexibility

Features & Benefits

### **Installation Features**

Modern curved design with flush front lid - For the most demanding and visible installations blending in with today's modern living environments where the consumer unit is on show

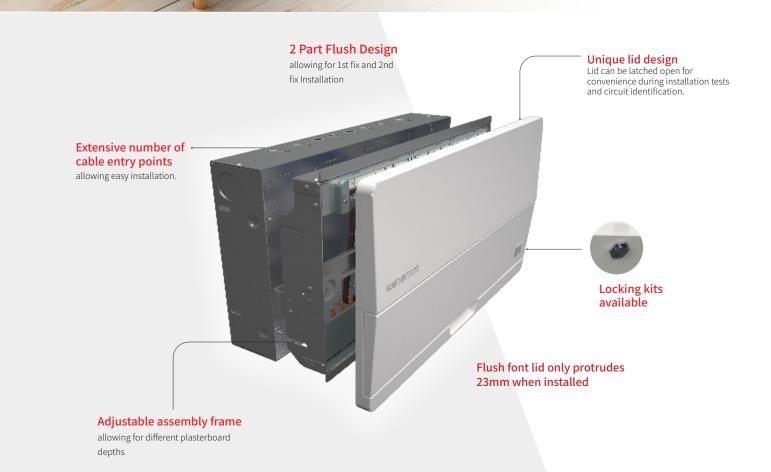
Edge protection grommet strip supplied - For a compliant and professional finish on your rear cable entry knockouts, supplied with each consumer unit as standard

Spirit level - For added installation guidance (surface mounted version only)

UV Powder coated paint - Colour finish RAL9016 seamlessly blending into today's modern residential installations

Extensive number mixed size knockouts - Strategically placed allowing easy installation of cable entry and exit points

Captive cover screws -Fitted on the enclosure lid for ease of fixing and convenience, no more lost cover screws!



# SURFACE Flexible High Integrity Split Load Dual RCD Consumer Units



# **100A Rated Consumer Unit**

Without SPD	With SPD	
SDDS06111AMS		6Way 100A CU ISO Incomer + 2 RCD Class A
SDDS10111AMS	SDDS10111ASPMS	10Way 100A CU ISO Incomer + 2 RCD Class A
SDDS12111AMS	SDDS12111ASPMS	12Way 100A CU ISO Incomer + 2 RCD Class A
SDDS14111AMS	SDDS14111ASPMS	14Way 100A CU ISO Incomer + 2 RCD Class A
SDDS16111AMS	SDDS16111ASPMS	16Way 100A CU ISO Incomer + 2 RCD Class A
SDDS18111AMS		18Way 100A CU ISO Incomer + 2 RCD Class A
SDDS38111AMS		38Way 100A Dual Row CU ISO Incomer + 2 RCD Class A

### Populated

SDDS06111AMS-P01	6Way 100A CU ISO Incomer + 2 RCD Class A + 6 MCB
SDDS10111AMS-P01 SDDS10111ASPMS-P01	10Way 100A CU ISO Incomer + 2 RCD Class A + 10 MCB
SDDS12111AMS-P01 SDDS12111ASPMS-P01	12Way 100A CU ISO Incomer + 2 RCD Class A + 10 MCB
SDDS14111AMS-P01 SDDS14111ASPMS-P01	14Way 100A CU ISO Incomer + 2 RCD Class A + 10 MCB
SDDS16111AMS-P01 SDDS16111ASPMS-P01	16Way 100A CU ISO Incomer + 2 RCD Class A + 10 MCB
SDDS18111AMS-P01	18Way 100A CU ISO Incomer + 2 RCD Class A + 10 MCB



# 63A Rated Consumer Unit

Class A
D Class A
D Class A
Class A + 6 MCB
D Class A + 10 MCB
D Class A + 10 MCB
D Class A

Other populated configuration available on request

# **Technical Data for Surface CU**

Standard	BS EN 61439-3:2012 Including Annex ZB (16kA))
Max Current Rating (InA) *	100A
Rated Operating Voltage (Ue)	230V AC 50Hz
Short Circuit Withstand (Icw)	10kA 0.1 sec
Poles	
Cable Entry/Exit (KO's)	20, 25 & 32mm
Material	1.2mm Sheet Steel
IP Protection Rating	IP2XC/IP4X
Impact Rating	IK05
RAL Colour	9016
Fixing	Surface
Terminal Torque (N.m)	1.5
Module Width	17.8mm

\*Please see product description for individual enclosure InA rating as each consumer unit differs. The upstream over current protection device must not exceed the enclosure InA rating.



# **SURFACE** Switch Disconnect Incomer Consumer Units



Without SPD	With SPD	
SDD026MS		2Way 63A CU ISO Incomer
	SDD041SPMS	4Way 100A CU ISO Incomer
SDD061MS		6Way 100A CU ISO Incomer
SDD101MS	SDD101MS-P01	10Way 100A CU ISO Incomer
SDD141MS		14Way 100A CU ISO Incomer
SDD161MS		16Way 100A CU ISO Incomer
SDD181MS		18Way 100A CU ISO Incomer
SDD201MS		20Way 100A CU ISO Incomer
SDD221MS		22Way 100A CU ISO Incomer
SDD421MS		42Way 100A Dual Row CU ISO Incomer

### Populated

SDD101MS-P01 10Way 100A CU ISO Incomer + 6 eRCBO + 4 BLANK

Other populated configurations available upon request.

# SURFACE Split Load Consumer Units



SDS0816AMS	8Way 63A CU ISO Incomer + 1 RCD Class A	
SDS0811AMS	8Way 100A CU ISO Incomer + 1 RCD Class A	
SDS1211AMS	12Way 100A CU ISO Incomer + 1 RCD Class A	
SDS1411AMS	14Way 100A CU ISO Incomer + 1 RCD Class A	
SDS1611AMS	S1611AMS 16Way 100A CU ISO Incomer + 1 RCD Class A	
SDS1811AMS	18Way 100A CU ISO Incomer + 1 RCD Class A	
SDS2011AMS	20Way 100A CU ISO Incomer + 1 RCD Class A	



# Defender 2.0 Consumer Units

# SURFACE RCD Incomer Consumer Units



SDR066AMS	6Way 63A CU RCD Class A Incomer
SDR068AMS	6Way 80A CU RCD Class A Incomer
SDR101AMS	10Way 100A CU RCD Class A Incomer
SDR141AMS	14Way 100A CU RCD Class A Incomer

# SURFACE Garage Unit



### Unpopulated SDR026AMS

2Way 63A CU RCD Class A Incomer

### Populated

SDR026AMS-P01 Garage Unit 63A RCD Class A + 16A MCB + 6A MCB

Other populated configurations available upon request.

# **Technical Data for Surface CU**

Standard	BS EN 61439-3:2012 Including Annex ZB (16kA))
Max Current Rating (InA) *	100A
Rated Operating Voltage (Ue)	230V AC 50Hz
Short Circuit Withstand (Icw)	10kA 0.1 sec
Poles	1
Cable Entry/Exit (KO's)	20, 25 & 32mm
Material	1.2mm Sheet Steel
IP Protection Rating	IP2XC/IP4X
Impact Rating	IK05
RAL Colour	9016
Fixing	Surface
Terminal Torque (N.m)	1.5
Module Width	17.8mm

\*Please see product description for individual enclosure InA rating as each consumer unit differs. The upstream over current protection device must not exceed the enclosure InA rating.

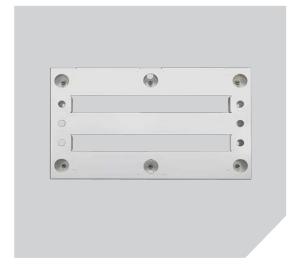


# **SURFACE** Empty Enclosures



SDME04MS	IP2XC/IP4X 4 Mod Metal Encl c/w Earth/Neutral	
SDME08MS	IP2XC/IP4X 8 Mod Metal Encl c/w Earth/Neutral	
SDME012MS	IP2XC/IP4X 12 Mod Metal Encl c/w Earth/Neutral	
SDME016MS	IP2XC/IP4X 16 Mod Metal Encl c/w Earth/Neutral	
SDME018MS	IP2XC/IP4X 18 Mod Metal Encl c/w Earth/Neutral	
SDME020MS	IP2XC/IP4X 20 Mod Metal Encl c/w Earth/Neutral	
SDME022MS	IP2XC/IP4X 22 Mod Metal Encl c/w Earth/Neutral	
SDME024MS	IP2XC/IP4X 24 Mod Metal Encl c/w Earth/Neutral	

# SURFACE Rear Cable Top Entry Bracket



RCEB-TE-12M	Rear Cable Top Entry Bracket - 12 Mod	
RCEB-TE-16M	Rear Cable Top Entry Bracket - 16 Mod	
RCEB-TE-18M	Rear Cable Top Entry Bracket - 18 Mod	
RCEB-TE-20M	Rear Cable Top Entry Bracket - 20 Mod	
RCEB-TE-22M	Rear Cable Top Entry Bracket - 22 Mod	
RCEB-TE-24M	Rear Cable Top Entry Bracket - 24 Mod	



# FLUSH Flexible High Integrity Split Load Dual RCD Consumer Units



## 80A Rated Consumer Unit

Without SPD	With SPD	
FDDS06188AMS		6Way 80A CU ISO Incomer + 2 RCD Class A
FDDS10188AMS	FDDS10188ASPMS	10Way 80A CU ISO Incomer + 2 RCD Class A
FDDS12188AMS		12Way 80A CU ISO Incomer + 2 RCD Class A
FDDS14188AMS		14Way 80A CU ISO Incomer + 2 RCD Class A

# 63A Rated Consumer Unit

Without SPD	With SPD	
FDDS06166AMS		6Way 63A CU ISO Incomer + 2 RCD Class A
FDDS10166AMS		10Way 63A CU ISO Incomer + 2 RCD Class A
FDDS12166AMS		12Way 63A CU ISO Incomer + 2 RCD Class A

Populated configurations available upon request.

# FLUSH Switch Disconnect Incomer Consumer Units



Without SP	D With SPD	
FDD068MS		6Way 80A Flush Mounted CU ISO Incomer
	FDD088SPMS	8Way 80A Flush Mounted CU ISO Incomer
FDD108MS		10Way 80A Flush Mounted CU ISO Incomer
	FDD128SPMS	12Way 80A Flush Mounted CU ISO Incomer
FDD148MS	FDD148SPMS	14Way 80A Flush Mounted CU ISO Incomer
FDD168MS	FDD168SPMS	16Way 80A Flush Mounted CU ISO Incomer
FDD188MS		18Way 80A Flush Mounted CU ISO Incomer
-		

# **Technical Data for Flush CU**

Standard	BS EN 61439-3: 2012 Including Annex ZB (16kA))
Max Current Rating (InA) *	80A
Rated Operating Voltage (Ue)	230V AC 50Hz
Short Circuit Withstand (Icw)	10kA 0.1 sec
Poles	
Cable Entry/Exit (KO's)	20, 25 & 32mm
Material	1.2mm Sheet Steel
IP Protection Rating	IP2XC/IP4X
Impact Rating	IK05
RAL Colour	9016
Fixing	Flush
Terminal Torque (N.m)	1.5
Module Width	17.8mm

\*Please see product description for individual enclosure InA rating as each consumer unit differs. The upstream over current protection device must not exceed the enclosure InA rating.



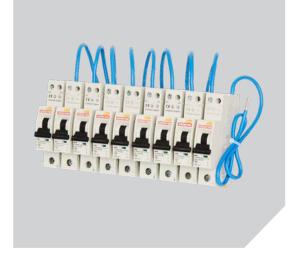
# MCB 1P 6kA & 10kA B and C Curve



СРВ03-	3A SP MCB	
CPB06-	6A SP MCB	
CPB10-	10A SP MCB	
CPB16-	16A SP MCB	
СРВ20-	20A SP MCB	
CPB25-	25A SP MCB	
CPB32-	32A SP MCB	
СРВ40-	40A SP MCB	
CPB50-	50A SP MCB	
-		

- -Specify 06 for 6kA and 10 for 10kA. -Specify B or C for curve type. eg: CPB0603B

# eRCBO 1P 6KA & 10KA Compact B and C Curve



CCPBR06A-	6A Class A SP RCBO	
CCPBR10A-	10A Class A SP RCBO	
CCPBR 16A-	16A Class A SP RCBO	
CCPBR 20A-	20A Class A SP RCBO	
CCPBR 25A-	25A Class A SP RCBO	
CCPBR 32A-	32A Class A SP RCBO	
CCPBR 40A-	40A Class A SP RCBO	
CCPBR 45A-	45A Class A SP RCBO	

- -Specify 06 for 6kA and 10 for 10kA. -Specify B or C for curve type. eg: CCPBR0606AB

# **Technical Data for MCB**

Standard	Confirming to BS EN / IEC60898-1
Breaking capacity	6kA, 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 ln Magnetic operating: B: (3-5) x ln C: (5-10) x ln D: (10-20) x ln
Number of poles	1P
Type of trip	Thermal / magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	16mm2 flexible or 25mm2 rigid up to 25A ratings 25mm2 flexible or 35mm2 rigid for 32A to 63A ratings
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Torque (N.m)	2
Width	17.5mm per pole

# Technical Data for eRCBO

Standard	
Breaking Capacity	
Number of poles	
Rated currents	
Rated voltage	
Rated Tripping Current	
Residual Operating Characteristics	;
Residual Current Disconnection Ti	me
Characteristic	
Electrical endurance	
Mechanical endurance	
Ambient temperature	
Connection terminal	
Type of terminal	
Module Width	
Torque N.m	

### BS EN / IEC 61009 6KA, 10KA 1P+N(1 module) 6,10,16, 20, 25, 32, 40, 50A 230VAC 30MA A 6,015 8.C 10000 20000 -25oC~+45oC,Max. 95%humidity Flexible 16mm2, Rigid 25mm2 Lug type and Pin type 17.8mm /module

# Defender 2.0 Consumer Units

# eRCBO DP B Curve

CCPBR06062AB	06A 6kA Type A B Curve DP 2 MOD RCBO	
CCPBR06102AB	10A 6kA Type A B Curve DP 2 MOD RCBO	
CCPBR06162AB	16A 6kA Type A B Curve DP 2 MOD RCBO	
CCPBR06202AB	20A 6kA Type A B Curve DP 2 MOD RCBO	
CCPBR06322AB	32A 6kA Type A B Curve DP 2 MOD RCBO	
CCPBR06402AB	40A 6kA Type A B Curve DP 2 MOD RCBO	

# AFDD B and C Curve

ACPBR0606A-	6A 6KA Type A B Curve 1Mod AFDD/RCBO
ACPBR0610A-	10A 6KA Type A B Curve 1Mod AFDD/RCBO
ACPBR0616A-	16A 6KA Type A B Curve 1Mod AFDD/RCBO
ACPBR0620A-	20A 6KA Type A B Curve 1Mod AFDD/RCBO
ACPBR0625A-	25A 6KA Type A B Curve 1Mod AFDD/RCBO
ACPBR0632A-	32A 6KA Type A B Curve 1Mod AFDD/RCBO

-Specify B or C for curve type.

# Surge Arrestor

T2C4011KIT

Surge 40KA 1+1 Protection Retro Fit Kit

# **Technical Data for AFDD**

Standard	IEC/BS EN 62606, IEC/BS EN 61009-1
Breaking Capacity	бКА
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	-25oC~+45oC,Max. 95%humidity
Connection terminal	Flexible 16mm2, Rigid 25mm2
Type of terminal	Lug type and Pin type
Module Width	17.8mm /module
Torque N.m	2



# Isolators & RCD

CPD63	63A Double Pole Isolator	
CPD100	100A Double Pole Isolator	
CPR63A	63A 30mA Class A 2 Pole RCD	
CPR100A	100A 30mA Class A 2Pole RCD	
CPR1010A	100A 100mA Class A 2 Pole RCD	
CPR1010AT	100A 100mA Class A 2 Pole RCD Time Delay	

# Timers & Bell Transformers

TSAQ1	24Hr Analogue Timer 2 Ch 3 Mod
TSD1T	7Day/24Hr Digital Timer 1 Ch 2 Mod
TSDAS1	24HR Analogue Timer 1 Ch 16A Resist
TSBT2	Bell Transformer 1A 8VA Output

# Contactors

COA20-11/230	20A 230V 1NO/1NC (1 Mod)	
COA20-20/230	20A 230V 2NO (1 Mod)	
COA25-04/230	25A 230V 4NC (2 Mods)	
COA25-40/230	25A 230V 4NO (2 Mods)	
COA40-20/230	40A 230V 2NO (3 Mods)	
COA40-40/230	40A 230V 4NO (3 Mods)	
COA63-20/230	63A 230V 2NO (3 Mods)	
COA63-40/230	63A 230V 4NO (3 Mods)	
COD63-40/230	63A 230V AC/DC 4NO (3 Mods)	

## Accessories

CPBBL	MCB Blank
DCA10	Pack of 10 MCB/RCBO Toggle Locking Device (New Design)
DCA20	AMD3 Membrane Grommet Kit
DCA21	40/32mm Tails Red Kit Metal
DCA22	40/32mm Tails Red Kit Plastic
DCA26	2.5-50mm2 Earth Cable Connector

# **Technical Data for RCD**

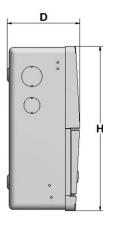
Confirming to EN / IEC61008-1
5kA
Ground fault
AC, A
25,40,63,80,100
2(1+N)
30,100mA
0.5 X I ∆n
5000V
230VAC
25oC~+45oC,Max. 95%humidity
≤0.1s
500A for In=25,40A
530A for In=63,80,100
Electro-magnetic release
ug type and Pin type
Cables up to 35mm2
P20
35mm DIN rail

### **Technical Data for Isolator** Standard EN / IEC60947-3 Rated currents 63, 100 Rated voltage 2 pole 230 AC 50/60Hz Utilization category AC-22A 12le, t=0.1s Rated short-circuit making capacity Icn 20le, t=0.1s Rated making & breaking capacity 3le, 1.05Ue, COSφ=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 50mm2 Ambient temperature (oC) -25~+45, Max.95% humidity Storage temperature (oC) -40~+75 Altitude (meters) Max. 2,000 Protection degree IP20

Installation Module Width

# SURFACE Consumer Units Technical Data

COLTRATUM	



	BS EN 61439-3:2012
Max Current Rating (InA)	*100A
Rated Operating Voltage (Ue)	230V AC 50Hz
Short Circuit Withstand (Icw)	10kA 0.1sec
Poles	1
Cable Entry/Exit (KO's)	20, 25 & 32mm
Material	1.2mm Sheet Steel
P Protection Rating	IP2XC/IP4X (top surface)
mpact Rating	IK05
RAL Colour	9016
Fixing	Surface
Terminal Torque (N.m)	1.5
Module Width	17.8mm

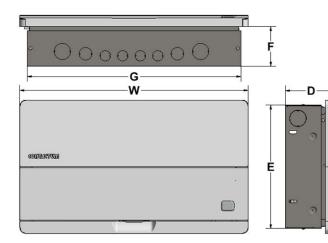
# Surface Mounted Defender 2.0 Dimensions

Dimensions	Allow 2 mod	Allow 2 modular ways for each Switch Disconnector or RCD and allow 1 modular way for each MCB, RCBO or AFDD							
Dimensions	4 Mod	8 Mod	12 Mod	16 Mod	18 Mod	20 Mod	22 Mod	24 Mod	44 Mod
Width (W) mm	155	227	299	371	407	443	479	515	479
Height (H) mm	262	262	262	262	262	262	262	262	524
Depth (D) mm	114	114	114	114	114	114	114	114	114





# FLUSH Consumer Units Technical Data

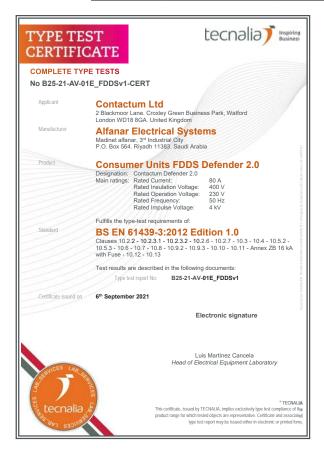


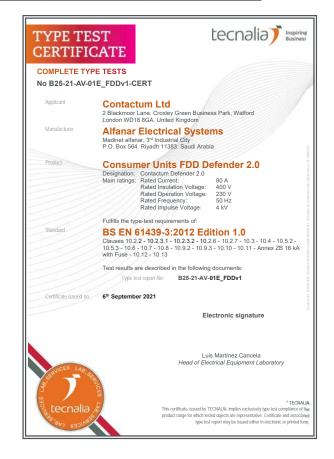
Technical Data	
Standard	BS EN 61439-3:2012
Max Current Rating (InA)	*80A
Rated Operating Voltage (Ue)	230V AC 50Hz
Short Circuit Withstand (Icw)	10kA 0.1sec
Poles	1
Cable Entry/Exit (KO's)	20, 25 & 32mm
Material	1.2mm Sheet Steel
IP Protection Rating	IP2XC/IP4X (top surface)
Impact Rating	IK05
RAL Colour	9016
Fixing	Flush
Terminal Torque (N.m)	1.5
Module Width	17.8mm

# Flush Mounted Defender 2.0 Dimensions

H

Dimensions (mm)	Allow 2 modular ways for each Switch Disconnector or RCD and allow 1 modular way for each MCB, RCBO or AFDD					
Dimensions (mm)	12 Mod	16 Mod	18 Mod	20 Mod		
Width (W)	371	443	479	515		
Height (H)	262	262	262	262		
Depth (D)	100	100	100	100		
G	336	408	444	480		
E	242	242	242	242		
F	77	77	77	77		













**Design is Everything...** T: 020 8208 7419 E: sales@contactum.co.uk www.contactum.co.uk