CONTACTUM





Defender

New generation of Consumer Units Stylishly designed to blend in with today's modern living 2.0

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.



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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Defender 2.0

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 includes:





Surface Mounted in Single or Dual Row options and we now offer a new range of Flush Mounted Consumer Units.

Pre-Populated with MCBs and factory fitted Surge Protection options are also available along with an extensive range of accessories to compliment the range.

Some of the most important aspects are featured here:

All Defender 2.0	+ Tested by reputed BS EN 61439-3: 2
Consumer Units	+ Up to 100A (InA)
are packed with	+ Type A RCDs and
enhanced features	+ Surface and Flus
and benefits.	+ Up to 24 module
	+ Up to 44 modules

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We have also added new devices to our range including Compact RCBOs and Single Module AFDD/ RCBO combination devices for enhanced protection.

- d third party in accordance with 2012 including Annex ZB
- rated
- d RCBOs as standard
- sh Mounted versions available
- es Single Row
- es Dual Rows

TYPE T	
CERTIF	ICATE
COMPLETE T	YPE TESTS
No B25-21-AV	01E_FDDSv1-CERT
Applcant	Contactum Ltd 2 Blackmor Lane. Croxiey Green Buginess Park, Wattort London WD18 KGA. United Kingdom
Manufacturer	Alfanar Electrical Systems Madret alfanar, 3+ Industrial City P.O. Roc 564, Rijach 11382, Saudi Arabia
Pedid	Consumer Units FDDS Defender 2.0
	Designation: Contractors Defender 2.9 Main range: Rated Counter 7.8 Rated Counter Votage: 400 V Rated Ciperation Votage: 420 V Rated Ciperation Votage: 420 V Rated Ciperation Votage: 420 V
	Fulfills the type-test requirements of
Santiag	BS EN 61439-3:2012 Edition 1.0 Chaster 9122-10231-10232-0026-1022-103-504-1052- 95.53-1006-107-705-1052-1052-1052-1010-10.11-Anner 20 16 kA with Funk-10.12-10.13
	Test wealth are described in the following documents:
	Typi test report for B25-21-AV-01E_FDDSv1
Certificate leaved o	4- September 2021
	Electronic signature
	Luis Matther Canolia
a series and	Head of Electrical Equipment Laboratory
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18th Edition

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Significant Changes

When AMD2 of the 18th Edition of the wiring regulations was released in 2022, significant changes were implemented that impacted the decisions made by manufacturers. designers and installers of consumer units and 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/BS EN 62606 are required in certain circumstances and recommended in others. Contactum have introduced a range to support contractors in meeting these obligations.

(443.4) Overvoltage (Surge) Protection

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. Protection against transient overvoltages shall be provided where the consequence caused by the overvoltage could result in serious injury to, or loss of human life, failure of a safety service and significant financial or data loss.

For all other cases, protection against transient overvoltages shall be provided unless the owner of the installation declares it is not required due to any loss or damage being tolerable and they accept the risk of damage to equipment and any consequential loss.

(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 RCDs 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.

Design Service

Circuit Protection

Our team can help you to build the best configuration to suit your project. Using standard and non standard Contactum devices and accessories we can supply your units fully assembled, ready for installation.

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.*

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



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.

- + 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

Contact our Customer Service Team:

Telephone: 0208 208 7419

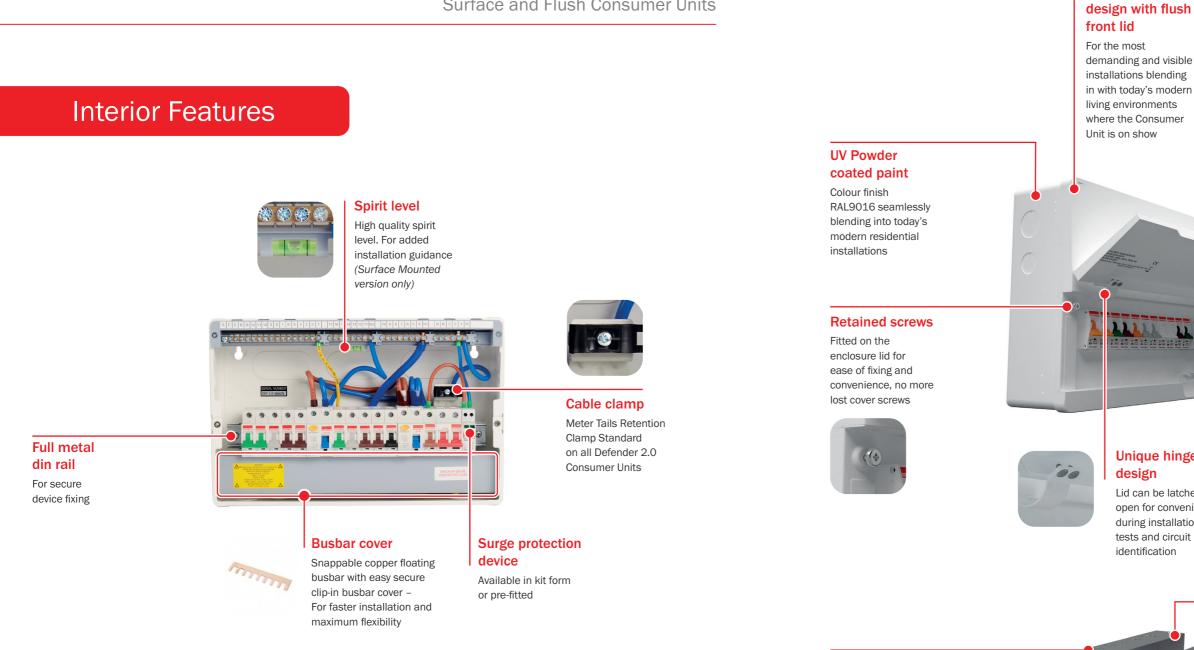
Email the contractors sales team: contractors@contactum.co.uk

CONTACTUM

NEW Generation

Surface and Flush Consumer Units

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Technical Details:

- 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
- Designed by Micieli



Extensive number of cable entry points Allowing easy installation

Adjustable assembly frame Allowing for different plasterboard depths

Modern curved



Finger operated mechanical lid clip

Safety feature. Needs to be pressed to be opened



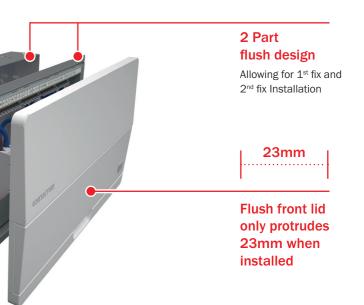


Optional lock device

Unique hinge lid

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Lid can be latched open for convenience during installation tests and circuit



Surface

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Defender 2.0 Consumer Units

Surface

Dual Row Consumer Units

14 - 42 Way: 100A Dual Row CU ISO Incomer

26 - 38 Way: 100A Dual Row CU ISO Incomer + 2 RCD Type A



Split Load Consumer Units

8 - 16 Way:	
63A CU ISO Incomer	
+ 1 RCD Type A	

8 - 20 Way: 100A CU ISO Incomer + 1 RCD Type A



Technical Details for Surface CU:

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

Flexible High Integrity Split Load Dual **RCD** Consumer Units

6 - 16 Way:
63A CU ISO Incomer
+ 2 RCD Type A

6 - 18 Way:

+ 2 RCD Type A

100A CU ISO Incomer



8 - 14 Way:

63A CU ISO Incomer

+ 2 RCD Type A

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63A Rating

Other populated configurations available on request

	63A Rating
	With SPD
Size:	Product Code:
8 Way	SDDS08166ASPMS
10 Way	SDDS10166ASPMS
12 Way	SDDS12166ASPMS
14 Way	SDDS14166ASPMS

	100A Rating	
	Without SPD	With SPD
Size:	Product Code:	Product Code:
6 Way	SDDS06111AMS	
8 Way		SDDS08111ASPMS
10 Way	SDDS10111AMS	SDDS10111ASPMS
12 Way	SDDS12111AMS	SDDS12111ASPMS
14 Way	SDDS14111AMS	SDDS14111ASPMS
16 Way	SDDS16111AMS	SDDS16111ASPMS
18 Way	SDDS18111AMS	

Fupulateu		
6 Way + 6 MCB	SDDS06111AMS-P01	
10 Way + 10 MCB	SDDS10111AMS-P01	SDDS10111ASPMS-P01
12 Way + 10 MCB	SDDS12111AMS-P01	SDDS12111ASPMS-P01
14 Way + 10 MCB	SDDS14111AMS-P01	SDDS14111ASPMS-P01
16 Way + 10 MCB	SDDS16111AMS-P01	SDDS16111ASPMS-P01
18 Way + 10 MCB	SDDS18111AMS-P01	



Defender 2.0 Consumer Units

100A Rating

Size:	Product Code:
6 + 8 Way (Total 14 way)	SDD2141MS
14 + 16 Way (Total 30 way)	SDD301MS
20 + 22 Way (Total 42 way)	SDD421MS
12 + 14 Way (Total 26 way) + 2 RCD Type A	SDDS26111AMS
18 + 20 Way (Total 38 way) + 2 RCD Type A	SDDS38111AMS

	63A Rating
Size:	Product Code:
8 Way	SDS0816AMS
12 Way	SDS1216AMS
14 Way	SDS1416AMS
16 Way	SDS1616AMS

100A Rating	
Size:	Product Code:
8 Way	SDS0811AMS
12 Way	SDS1211AMS
14 Way	SDS1411AMS
16 Way	SDS1611AMS
18 Way	SDS1811AMS
20 Way	SDS2011AMS

Surface

2 - 10 Way:

CU ISO Incomer

63A

Switch Disconnect Incomer Consumer Units

CU ISO Incomerr

TTTTT

4 - 22 Way:

CU ISO Incomer

Size: 2 Way

6 Way 10 Way

Populate 10 Way

Size:

2 Way

+ 6 eRCB0 + 4 Blank

100A

2 Way:

80A

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Defender 2.0 Consumer Units

Surface

RCD Incomer Consumer Units

6 - 10 Way:	6 Way:
63A CU RCD	80A CU RCD
Type A Incomer	Type A Incomer

10 - 20 Way: 100A CU RCD Type A Incomer









63A Rating

Product Code:

SDD026MS SDD066MS

SDD106MS

SDD106MS-P01

Product Code:

80A Rating

Garage Unit

2 Way: 63A CU RCD Type A Incomer Garage Unit: 63A RCD Type A + 16A MCB + 6A MCB



Rear Cable Top Entry Bracket

12 - 24 Mod: Rear Cable Top Entry Bracket



Empty Enclosures

4 - 24 Mod: IP2XC/IP4X Mod Metal Encl c/w Earth/ Neutral



Size:	Product Code:
4 Mod	SDME04MS
8 Mod	SDME08MS
12 Mod	SDME012MS
16 Mod	SDME016MS
18 Mod	SDME018MS
20 Mod	SDME020MS
22 Mod	SDME022MS
24 Mod	SDME024MS

SDD028MS		
10	DA Rating	
Without SPD	With SPD	
Product Code:	Product Code:	
	SDD041SPMS	
SDD061MS		
	SDD081SPMS	
SDD101MS		
	SDD121SPMS	
		1

Defender 2.0 Consumer Units

	63A Rating
Size:	Product Code:
6 Way	SDR066AMS
10 Way	SDR106AMS

	80A Rating
Size:	Product Code:
6 Way	SDR068AMS

100A Rating	
Size:	Product Code:
10 Way	SDR101AMS
14 Way	SDR141AMS
16 Way	SDR161AMS
20 Way	SDR201AMS

63A Rating
Product Code:
SDR026AMS
SDR026AMS-P01

Other populated configurations available on request

Size:	Product Code:
12 Mod	RCEB-TE-12M-D2
16 Mod	RCEB-TE-16M-D2
18 Mod	RCEB-TE-18M-D2
20 Mod	RCEB-TE-20M-D2
22 Mod	RCEB-TE-22M-D2
24 Mod	RCEB-TE-24M-D2

Flush

RCD Consumer Units

6 - 12 Way:

63A CU ISO Incomer

+ 2 RCD Type A

Flexible High Integrity Split Load Dual

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Defender 2.0 Consumer Units

63A Rating

Other populated configurations available on request

With SPD

Product Code:

FDDS10166ASPMS

Without SPD

Product Code:

FDDS06166AMS

FDDS10166AMS

FDDS12166AMS

Size:

6 Way 10 Way

12 Way

Flush

Dual Row Consumer Units

14 - 30 Way: 100A Flush Mounted Dual Row CU ISO Incomer

Switch Disconnect Incomer Consumer Units

6 Way: 80A Flush Mounted CU ISO Incomer

8 - 18 Way: 100A Flush Mounted CU ISO Incomer

6 - 14 Way: 80A CU ISO Incomer + 2 RCD Type A



	80/	80A Rating	
	Without SPD	With SPD	
Size:	Product Code:	Product Code:	
6 Way	FDDS06188AMS		
10 Way	FDDS10188AMS	FDDS10188ASPMS	
12 Way	FDDS12188AMS		
14 Way	FDDS14188AMS		



RCD Incomer Consumer Units

6 Way: 80A Flush Mounted CU RCD Type A Incomer

10 - 18 Way: 100A Flush Mounted CU RCD Type A 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	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	Flush
Terminal Torque (N.m)	1.5
Module Width	17.8mm
Please see product descript	ion for individual enclosure InA rating as each Consumer Unit differs.

e upstream over current protection device must not exceed the enclosure InA rating.

Defender 2.0 Consumer Units

	100A Rating
Size:	Product Code:
6 + 8 Way (Total 14 way)	FDD2141MS
14 + 16 Way (Total 30 way)	FDD301MS

	80A Rating
Size:	Product Code:
6 Way	FDD068MS

	100	100A Rating		
	Without SPD	With SPD		
Size:	Product Code:	Product Code:		
8 Way		FDD081SPMS		
10 Way	FDD101MS			
12 Way		FDD121SPMS		
14 Way	FDD141MS	FDD141SPMS		
16 Way	FDD161MS	FDD161SPMS		
18 Way	FDD181MS			

80A Rating

Product Code:

6 Way	FDR068AMS		
	100A Rating		
Size:	Product Code:		
10 Way	FDR101AMS		
14 Way	FDR141AMS		
16 Way	FDR161AMS		
18 Way	FDR181AMS		

Size:

Defender 2.0 Consumer Units

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Defender 2.0 Consumer Units

eRCBO 1P+N 6kA B and C Curve

6A - 40A: 6kA Type A B & C Curve DP 1 Mod eRCBO



Technical Data for eRCBO:					
Standard	BS EN / IEC 61009	Characteristic	B.C		
Breaking Capacity	6kA	Electrical endurance	10000		
Number of poles	1P+N (1 module - switched neutral)	Mechanical endurance	20000		
Rated currents	6, 10,16, 20, 25, 32, 40A	Ambient temperature	-5oC to +40oC, Max. 95%humidity		
Rated voltage	230VAC	Connection terminal	Flexible 16mm2, Rigid 25mm2		
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		

MCB 1P 6kA & 10kA B, C and D Curve

3A - 63A: 1P 6kA & 10kA B, C & D Curve MCB



Tech

Standard	Confirming to IEC/BS EN60898-1	Number of poles	1P
Breaking capacity	6kA, 10kA	Type of trip	Thermal / magnetic release
Protection	Against overload and short circuit	Type of terminal	Lug type and Pin type
Rated current In	3, 6, 10, 16, 20, 25, 32, 40, 50, 63A	Terminal capacity	16mm2 flexible or 25mm2 rigid up to 25A ratings
Rated voltage	1pole 230 AC 50/60Hz, Rated insulation voltage Ui: 500V,		25mm2 flexible or 35mm2 rigid for 32A to 63A ratings
	Rated impulse withstand voltage Uimp: 6000V,	Protection degree	IP20
	Energy limiting class: 3	Installation	Mounting on 35mm DIN rail
Ambient temperature	-5oC to +40oC pursuant to BS EN / IEC60898	Torque (N.m)	2
Characteristic	Thermal operating limit: (1.13-1.45) x In	Width	17.5mm per pole
	Magnetic operating: B: (3-5) x In C: (5-10) x In D: (10-20) x In		

AFDD/RCBO 6kA B and C Curve

6A - 40A: 6kA Type A B & C Curve

1 Mod AFDD RCBO



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Technical	Dala	1()(ALIJI	/ KUDU.
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Standard	IEC/BS EN 62606, IEC/BS EN 61009-1	Characteristic
Breaking Capacity	6kA	Electrical endurance
Number of poles	1P+N (1 module)	Mechanical endurance
Rated currents	6, 10, 16, 20, 25, 32, 40A	Ambient temperature
Rated voltage	230VAC	Connection terminal
Rated Tripping Current	30mA	Type of terminal
Residual Operating Characteristics	A	Module Width
Residual Current Disconnection Time	≤0.1s	Torque N.m

eRCBO 1P 6kA & 10kA Compact B and C Curve

6A - 40A:			
6kA & 10kA Type A B & C	Product Code:	06 or 10:	Rat
Curve SP eRCBO	CCPBR		06A
	CCPBR		10A
	CCPBR		16A
	CCPBR		20A

	X			
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		6 6	•	

Product Code:	06 or 10:	Rating:	B or C:
CCPBR		06A	-
CCPBR		10A	-
CCPBR		16A	-
CCPBR		20A	-
CCPBR		25A	-
CCPBR		32A	-
CCPBR		40A	-
Example: CCPBR 06 20A B	Add code: 06 for 6kA 10 for 10kA	Add code: 06A - 50A For rating	Add code: B or C for Curve type

B or C:

-

Add code:

B or C

type

B,C 4000 20000

2

-5oC to +40oC, Max. 95%humidity Flexible 16mm2, Rigid 25mm2 Lug type and Pin type 17.8mm / module

Rating:

06A

10A

16A

20A

25A

32A

40A

Add code:

06A - 40A

for Curve

Product ID:

AFDR06

AFDR06

AFDR06 AFDR06

AFDR06

AFDR06

AFDR06

Example: AFDR06 06A B

Technical Data for eRCBO:

Standard	IEC/BS EN61009	Characteristic	B.C
Breaking Capacity	6kA,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	-5oC to +40oC, Max. 95%humidity
Rated voltage	230VAC	Connection terminal	Flexible 16mm2, Rigid 25mm2
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		Torque N.m	2

Defender	2.0	Consumer	Units
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Rating:	Product Code:	B or C:
6A	CCPBR06061A	
LOA	CCPBR06101A	
16A	CCPBR06161A	
20A	CCPBR06201A	
25A	CCPBR06251A	
32A	CCPBR06321A	
10A	CCPBR06401A	
Example: CCPBR06061A B		Add code: B or C for Curve type

Product Code:	06 or 10:	Rating:	B, C or D:	
СРВ	06	03	-	Only available in 6kA
СРВ		06	-	
СРВ		10	-	
СРВ		16	-	
СРВ		20	-	
СРВ		25	-	
СРВ		32	-	
СРВ		40	-	
СРВ		50	-	
СРВ		63	-	
Example: CPB 06 03 B	Add code: 06 for 6kA 10 for 10kA		Add code: B, C or D for Curve type	D Curve is only available in 10kA

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Defender 2.0 Consumer Units

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Product Code:

COA20-11/230

COA20-20/230

COA25-04/230

COA25-40/230

COA40-20/230

COA40-40/230

COA63-20/230

COA63-40/230

COD63-40/230

Defender 2.0 Consumer Units

Isolators



Technical Data for Isolator:

Standard	EN / IEC60947-3
Rated currents	63, 100A
Rated voltage	2 pole 230 AC 50/60Hz
Utilization category	AC-22A
lcw	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

RCDs

30mA: 63А Туре А 2 Pole RCD 30mA and 100mA: 100A Type A 2 Pole RCD



Tech

Technical Data for RCD:							
Standard	Confirming to EN / IEC61008-1	Ambient temperature	-5oC to +40oC, Max. 95%humidity				
Rated conditional short-circuit current, Inc	6kA	Residual current disconnection time	≤0.1s				
Protection	Residual current	Rated residual current making & breaking	500A for In=25,40A				
Туре	A	Capacity, I∆m	630A for In=63,80,100				
Rated current, In	63, 100	Type of trip	Electro-magnetic release				
Number of poles	2(1+N)	Type of terminal	Lug type and Pin type				
Rated sensitivity currents, I Δn	30,100mA	Terminal capacity	Cables up to 35mm2				
Rated residual non-operating current	0.5 X I Δn	Protection degree	IP20				
Rated impulse withstand voltage Uimp	6000V	Installation	35mm DIN rail				
Rated voltages 2pole	230VAC						

100mA + Time Delay

Surge Arrestor

40kA: Surge 40kA 1+1 Type 2 SPD Retro Fit Kit



Product: Product Code: T2C4011KIT

40kA

Product:

20A 230V 1N/1NC (1 Mod)

20A 230V 2NO (1 Mod)

25A 230V 4NC (2 Mod)

25A 230V 4N0 (2 Mods)

40A 230V 2NO (3 Mods)

40A 230V 4NO (3 Mods)

63A 230V 2NO (3 Mods)

63A 230V 4NO (3 Mods)

63A 230V AC/DC 4NO (3 Mods)

Contactors



Timers & Bell Transformers



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

Accessories



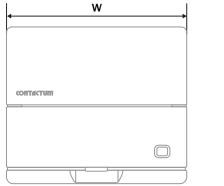
Product:	Product Code:
MCB Blank	CPBBL
4 Turn Camlock Accessory	DCA01
Key Lock Camlock Accessory	DCA02
Pack of 10 MCB/RCBO Toggle Locking Device (New Design)	DCA10
AMD3 Membrane Grommet Kit	DCA20
40/32mm Tails Red Kit Metal	DCA21
40/32mm Tails Red Kit Plastic	DCA22
2.5-50mm2 Earth Cable Connector	DCA26

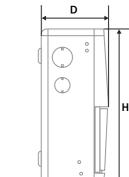
	63A Rating	
Product:	Product Code:	
63A Double Pole Isolator	CPD63	
	100A Rating	
Product:	Product Code:	
100A Double Pole Isolator	CPD100	
Mechanical endurance	10000	
Type of terminal	Lug type and Pin type	
Terminal capacity	Cables up to 50mm2	
Ambient temperature (oC)	-5oC to +40oC, Max.95% humidity	
Storage temperature (oC)	-40~+75	
Altitude (meters)	Max. 2,000	
Protection degree	IP20	
Installation	Mounting on 35mm DIN rail	
Module Width	178mm per pole	

	63A Rating				
Rating:	Product Code:				
30mA	CPR63A				
		_			
	100A Rating				
Rating:	100A Rating Product Code:				
Rating: 30mA					
0	Product Code:				

CPR1010AT

Defender 2.0 Consumer Units





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
	idual enclosure InA rating as each Consumer Unit differs.
The upstream over current protection de	evice must not exceed the enclosure InA rating.

Π

Surface Mounted Defender 2.0 Dimensions

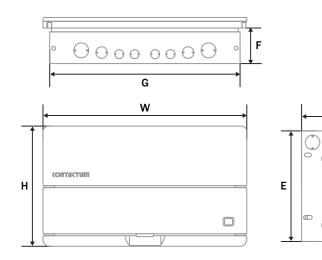
Allow 2 modular ways for each Switch Disconnector or RCD and allow 1 modular way for each MCB, RCBO or AFDD

Dimensions	4 Mod	8 Mod	12 Mod	16 Mod	16 Mod	18 Mod	20 Mod	22 Mod	24 Mod	32 Mod	44 Mod
Height (H) mm	262	262	262	524	262	262	262	262	262	524	524
Width (W) mm	155	227	299	227	371	407	443	479	515	371	479
Depth (D) mm	114	114	114	114	114	114	114	114	114	114	114
Dual Row				DR						DR	DR

D

0

0



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	Flush
Terminal Torque (N.m)	1.5
Module Width	17.8mm

Flush Mounted Defender 2.0 Dimensions

Allow 2 modular ways for each Switch Disconnector or RCD and allow 1 modular way for each MCB, RCBO or AFDD							
Dimensions	8 Mod	12 Mod	16 Mod	16 Mod	18 Mod	20 Mod	32 Mod
Height (H) mm	262	262	524	262	262	262	524
Width (W) mm	299	371	299	443	479	515	443
Depth (D) mm	100	100	100	100	100	100	100
Recessed Height (E) mm	242	242	508	242	242	242	508
Recessed Width (G) mm	264	336	264	408	444	480	408
Recessed Depth (F) mm	77	77	77	77	77	77	77
Dual Row			DR				DR

Defender 2.0 Consumer Units

CERTIFI	CATE	
COMPLETE T	PE TESTS	
No B25-21-AV-	01E_FDDSv1-CERT	
Applicant	Contactum Ltd 2 Blackmoor Lane. Croxley Green Busine London WD18 8GA. United Kingdom	ess Park, Watford
Manufacturer	Alfanar Electrical Syste Madinet alfanar, 3rd Industrial City P.O. Box 564. Riyadh 11383. Saudi Arab	
Product	Consumer Units FDDS	Defender 2 0
	Designation: Contactum Defender 2.0 Main ratings: Rated Current: Rated Insulation Voltage: Rated Operation Voltage: Rated Frequency: Rated Ingulse Voltage:	80 A 400 V
	Fulfills the type-test requirements of:	
Standard	BS EN 61439-3:2012 Ed Clauses 10.2.2 - 10.2.3.1 - 10.2.3.2 - 10.2 10.5.3 - 10.6 - 10.7 - 10.8 - 10.9.2 - 10.9.2 with Fuse - 10.12 - 10.13	2.6 - 10.2.7 - 10.3 - 10.4 - 10.5.2 -
	Test results are described in the following	documents:
	Type test report No: B25-21-AV-	01E_FDDSv1
Certificate issued or	6th September 2021	
	El	ectronic signature
		is Martínez Cancela
	Head of Ele	ctrical Equipment Laboratory
SERVICES LAD	STAL O	

CERTIFI		
COMPLETE T		
No B25-21-AV-	01E_FDDv1-CERT	
Applicant	Contactum Ltd 2 Blackmoor Lane. Croxley G London WD18 8GA. United K	ireen Business Park, Walford
Manufacturer	Alfanar Electrica Madinet alfanar, 3rd Industria P.O. Box 564. Riyadh 11383	City
Product	Consumer Units	FDD Defender 2.0
	Designation: Contactum De Main ratings: Rated Current Rated Insulati Rated Operati Rated Freque Rated Impulse	fender 2.0 80 A nn Voltage: 400 V on Voltage: 230 V toy: 50 Hz
	Fulfills the type-test requirem	ents of
Standard		
Standard	BS EN 61439-3:2 Clauses 10.2.2 - 102.3.1 - 10 10.5.3 - 10.6 - 10.7 - 10.8 - 11 with Fuse - 10.12 - 10.13	012 Edition 1.0 0.2.3.2 - 10.2.6 - 10.2.7 - 10.3 - 10.4 - 10.5 0.9.2 - 10.9.3 - 10.10 - 10.11 - Annex ZB 10
Standard	BS EN 61439-3:2 Clauses 10.2.2 - 10.2.3.1 - 11 10.5.3 - 10.6 - 10.7 - 10.8 - 1 with Fuse - 10.12 - 10.13 Test results are described in	012 Edition 1.0 12.3.2 - 10.2.6 - 10.2.7 - 10.3 - 10.4 - 10.5 0.9.2 - 10.9.3 - 10.10 - 10.11 - Annex ZB 11 the following documents:
	BS EN 61439-3:2 Clauses 10.2.2 + 10.2.3.1 + 11 10.5.3 + 10.6 + 10.7 + 10.8 + 10.2 with Fuse = 10.12 + 10.13 Test results are described in Type test report No:	012 Edition 1.0 0.2.3.2 - 10.2.6 - 10.2.7 - 10.3 - 10.4 - 10.5 0.9.2 - 10.9.3 - 10.10 - 10.11 - Annex ZB 10
Standard Certificate issued o	BS EN 61439-3:2 Clauses 10.2.2 + 10.2.3.1 + 11 10.5.3 + 10.6 + 10.7 + 10.8 + 10.2 with Fuse = 10.12 + 10.13 Test results are described in Type test report No:	012 Edition 1.0 12.3.2 - 10.2.6 - 10.2.7 - 10.3 - 10.4 - 10.5 0.9.2 - 10.9.3 - 10.10 - 10.11 - Annex ZB 11 the following documents:
	BS EN 61439-3:2 Clauses 10.2.2 + 10.2.3.1 + 11 10.5.3 + 10.6 + 10.7 + 10.8 + 10.2 with Fuse = 10.12 + 10.13 Test results are described in Type test report No:	012 Edition 1.0 12.3.2 - 10.2.6 - 10.2.7 - 10.3 - 10.4 - 10.5 0.9.2 - 10.9.3 - 10.10 - 10.11 - Annex ZB 11 the following documents:
	BS EN 61439-3:2 Clauses 10.2.2 + 102.31 + 11 10.5.3 + 10.6 + 10.7 + 102.31 + 11 with Fuse - 10.12 + 10.13 Test results are described in Type lest report No: 6 th September 2021	012 Edition 1.0 12.3.2 • 10.2.6 • 10.2.7 • 10.3 • 10.4 • 10.5 0.9.2 • 10.9.3 • 10.10 • 10.11 • Annex ZB 10 the following documents: B25-21-AV-01E_FDDv1 Electronic signature Luis Martinez Cancela
	BS EN 61439-3:2 Clauses 10.2.2 + 102.31 + 11 10.5.3 + 10.6 + 10.7 + 102.31 + 11 with Fuse - 10.12 + 10.13 Test results are described in Type lest report No: 6 th September 2021	012 Edition 1.0 12.3.2 • 10.2.6 • 10.2.7 • 10.3 • 10.4 • 10.5 0.9.2 • 10.9.3 • 10.10 • 10.11 • Annex ZB 11 the following documents: B25-21-AV-01E_FDDv1 Electronic signature
Certificate issued o	BS EN 61439-3:2 Clauses 10.22 - 102.31 - 11 10.5.3 - 108 - 107 - 103.11 with Fuse - 10.12 - 10.13 Test results are described in Type test report No: 6 th September 2021	012 Edition 1.0 12.3.2 • 10.2.6 • 10.2.7 • 10.3 • 10.4 • 10.5 0.9.2 • 10.9.3 • 10.10 • 10.11 • Annex ZB 10 the following documents: B25-21-AV-01E_FDDv1 Electronic signature Luis Martinez Cancela

TYPE TI CERTIFI	
COMPLETE T	(PE TESTS
No B25-21-AV-	01E_SDDSv1-CERT
Applicant	Contactum Ltd 2 Blackmoor Lane. Croxley Green Business Park, Watford London WD18 8GA. United Kingdom
Manufacturer	Alfanar Electrical Systems Madinet alfanar, 3 ^{et} Industrial City P.O. Box 564. Riyadh 11383. Saudi Arabia
Product	P.O. box 904, Riyadh Tiada, Sadud Adadd Consence Unites SDDS Defender 2.0 Main ratings: Rated Gurrent: 100 Å Rated Dreation Voltage: 400 Å Rated Prequency: 50 Hz Rated Trequency: 50 Hz Rated
Standard	Fulfills the type-test requirements of: BS EN 61439-3:2012 Edition 1.0 Clauses 10.22 - 102.31 - 102.32 - 10.26 - 10.27 - 10.3 - 10.4 - 10.52 - 10.53 - 10.6 - 10.7 - 10.8 - 10.92 - 10.9.3 - 10.10 - 10.11 - Annex ZB 16 kA with Fuse - 10.12 - 10.13
	Test results are described in the following documents:
	Type test report No: B25-21-AV-01E_SDDSv1
Certificate issued or	6 th September 2021
	Electronic signature
SERVICES LAQ	Luis Martínez Cancela Head of Electrical Equipment Laboratory
	^o TECNALIA This certificate, issued by TECNALIA, implies exclusively type list compliance of the product range for which lested capiects are representative. Certificate and associated type list report may be issued either in electronic or printed form.







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