



Easy9 & Resi9

Affordable circuit protection
you can depend on



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Catered to your needs

Easy9

Easy9 offers a conventional busbar system.

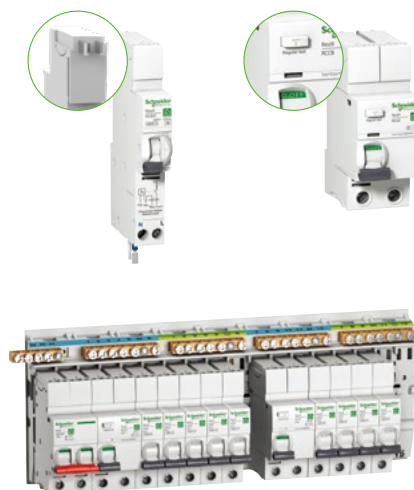
- **Enclosure:** can be modified to suit split and configuration on site
- **Flexible split load configuration option:** ensures mainstream applications can be catered for with a single consumer unit
- **Rigid metal DIN rail:** solid to avoid flexing and raised for cabling flexibility
- **Secure busbar guard:** requires tool for removal, ensuring more safety for you
- **New MCB style blanking module:** additional end user safety feature, requiring enclosure cover to be removed first



Resi9

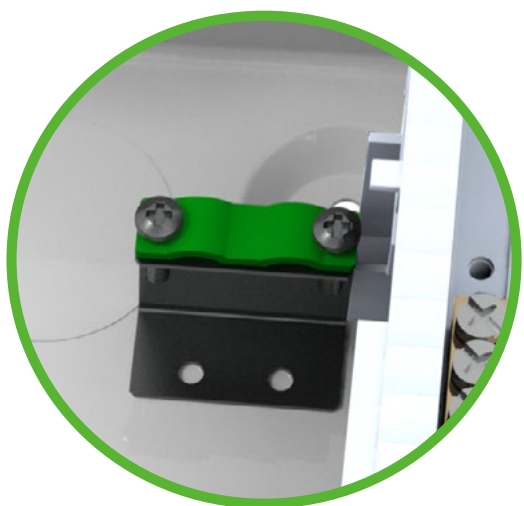
Resi9 offers a plug on pan assembly, designed for speed of installation.

- **Guaranteed connections:** fewer terminals to torque test
- **Encapsulated busbar:** limits contact with busbar even with blanks removed
- **Removeable pan assembly:** simplifying the mounting process
- **Finger safe assembly:** finger proof touch terminals ensuring your safety
- **Unrivalled devices:** class II rated front face devices with insulated pull up shuttered terminals to limit incorrect cable insertion RCCB's with visi-trip indicators to confirm fault scenarios
- **Compatible with command and control products:** allowing additional devices on a common platform



Premium enclosure design

The fully compliant BS7671 Amendment 3 metal enclosure and magnetic door closure provide a consistent design across both the Easy9 and Resi9 ranges.



Incoming cable clamp

Both ranges include an incoming cable clamp kit option.

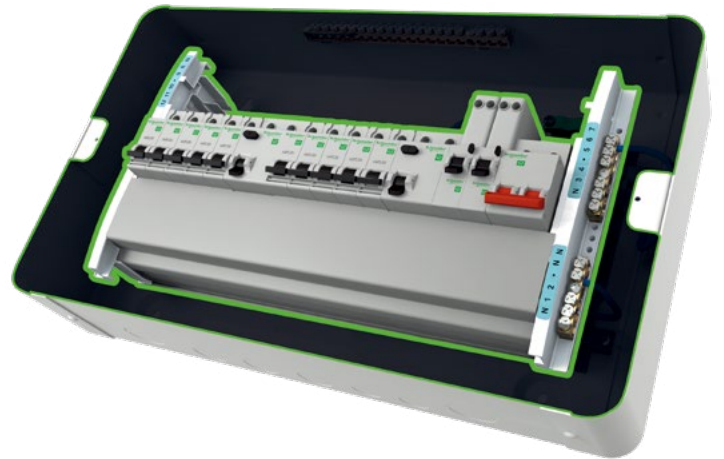
Reversible enclosure door

Central fixing points enable the door to open from top or bottom, providing flexibility and increased installation options.



Increased cabling space

Cabling space has been significantly improved for the ever increasing demands and circuit ways on a consumer unit.



Clear labelling kit

Both ranges include improved labelling kits with clear pictograms and supporting text, ensuring every install is finished neatly and easily identifiable for the end user.

Semi-Flush mounted flexibility

Easy9 and Resi9 can be semi-flush mounted, reducing obtrusion into living and communal spaces.





Customisable front face

The enclosure offers interchangeable magnetic front covers that can be tailored to suit interiors and are available to purchase online.

www.easycustomise.co.uk

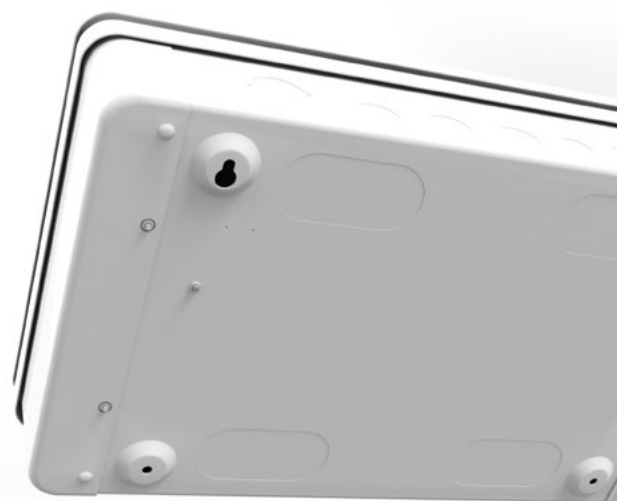


Improved terminals

Terminal bars now include a 1mm conductor clearance, allowing visibility of the cable through the terminal bar and ensuring correct insertion and termination.

Improved cable entries

Four large rear knockouts and additional top and bottom knockouts with left and right entries for incoming cables provide maximum flexibility for all your cabling needs.





Easy9

9 Reasons to choose Easy9

#1

Contemporary design

Crisp white modern design

Stylish finish for any residential environment.

#2

Customisable covers

Bespoke design

Blend in or stand out, change how the front panel looks to suit it's environment.

#3

Easy to read label kits

Visual aids

Instantly understand control points throughout the home.

#4

BS7671 compliant

Full metal enclosure

Prevents any flex or distortion when mounting the unit to any surface.

#5

Fast & easy to install

Easier to install

Improved design to offer cabling space where it is needed most.

#6

Numbered terminals

Ensures correct insertion and termination

Consistent and clear numbering with conductor clearance.

#7

Rigid DIN rail

Safe and strong

The DIN rail provides a solid feel whilst the busbar guard provides peace of mind.

#8

Recessed design

Minimise impact

Flexible enclosure, for a less intrusive look within your living space.

#9

Reversible enclosure door

Simply no downsides

Need the door to open up or down? Central fixing points make this a simple change. Lending itself to modern interiors.

Easy9

Affordable circuit protection
you can depend on

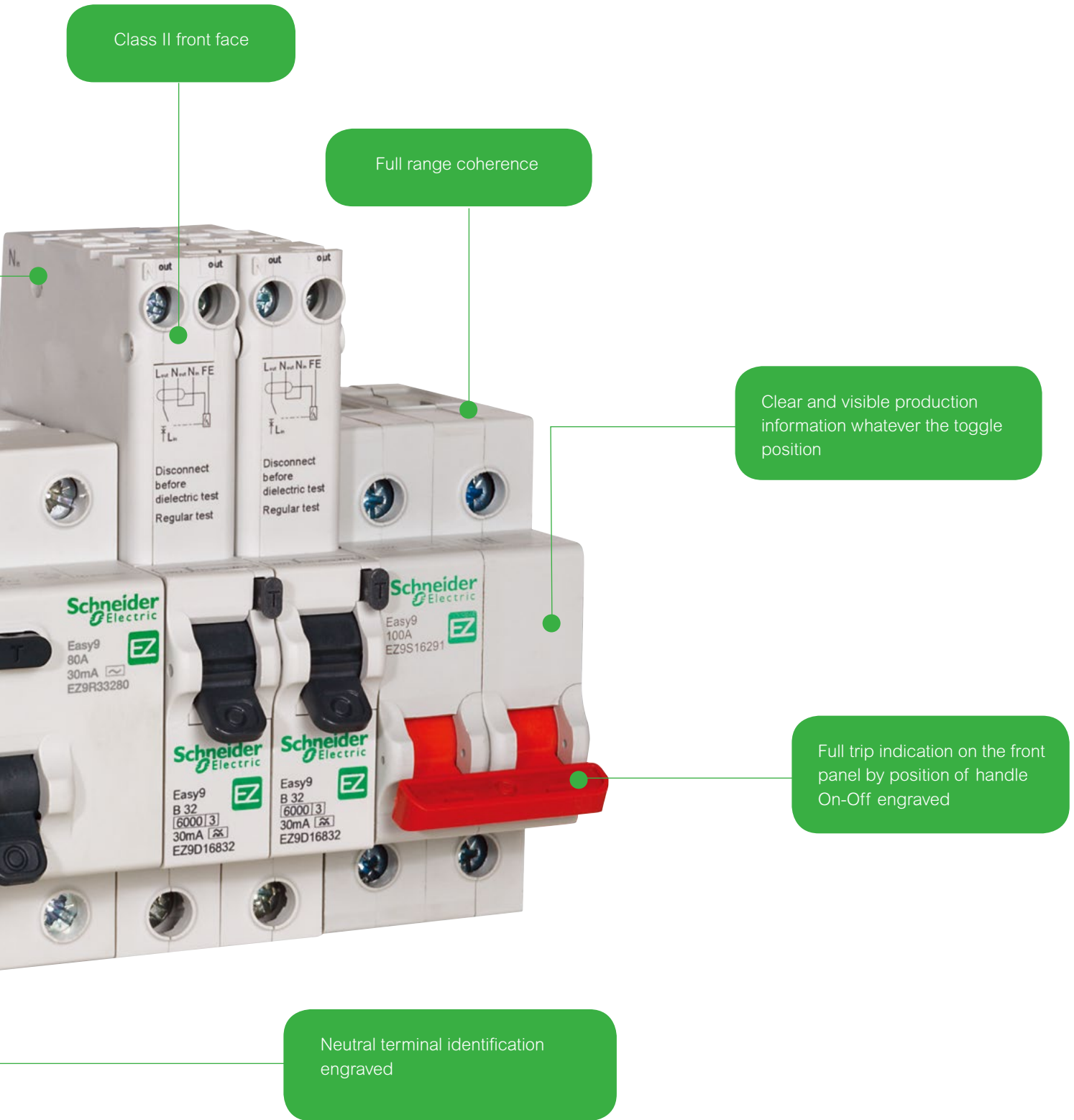
Schneider Electric warranty

Comprehensive range

Full compliance with
international IEC standards
3rd party certification

Installer-friendly wiring with
only 1 screwdriver





Class II front face

Full range coherence

Clear and visible production information whatever the toggle position

Full trip indication on the front panel by position of handle On-Off engraved

Neutral terminal identification engraved

Easy9



Easy9

Description



- Metal surface/recessed enclosures
- Multiple cable entry points
- Multiple rear knock out slots
- Secure raised DIN rail
- Earth and neutral blocks fitted as standard
- Secure raised busbar shield
- Earthed front cover
- Reversible door
- Can be mounted horizontally or vertically
- Enclosure colour: white RAL9003
- Neutral bar shields
- Lock accessory
- BSEN 61439-3
- IP3X

Consumer units

Reference	Description	Usable Ways
EZ9E2MCU	2 way metal consumer unit	2
EZ9E4MCU	4 way metal consumer unit	4
EZ9E6MCU	6 way metal consumer unit	6
EZ9E8MCU	8 way metal consumer unit	8
EZ9E12MCU	12 way metal consumer unit	12
EZ9E16MCU	16 way metal consumer unit	16
EZ9E20MCU	20 way metal consumer unit	20

Surge protection consumer units

Reference	Description	Usable Ways
EZ9ESLR7R6CMCU	7+6 100A SW SPD, 100A RCCBx2	13
EZ9ESL3R5R5CMCU	3+5+5 100A SW SPD, 100A RCCBx2	13

Dual RCD consumer units

Reference	Description	Usable Ways
EZ9ER4R4MCU	4+4 metal consumer unit inc 100A SW, 63A RCCB X 2	8
EZ9ER6R6MCU	6+6 metal consumer unit inc 100A SW, 63A RCCB X 2	12
EZ9ER6R6CMCU	6+6 100A SW, 100A RCCBx2	12
EZ9ER8R8CMCU	8+8 100A SW, 100A RCCBx2	16

Multiple split consumer units - High integrity

Reference	Description	Usable Ways
EZ9ES2R5R5CMCU	2+5+5 100A SW, 100A RCCBx2	12
EZ9ES2R7R7CMCU	2+7+7 100A SW, 100A RCCBx2	16

Flexible split consumer units

Reference	Description	Usable Ways
EZ9EFS12CMCU	Flexible split 12 way 100A Sw, 100A RCCBx2	12
EZ9EFS16CMCU	Flexible split 16 way 100A Sw, 100A RCCBx2	16

Populated consumer units

Reference	Description	Usable Ways
EZ9ER4R4MRE	4+4 KITBOX C/W 6 MCB - inc 100A SW, 63A RCCBx2 & 2x6A, 1x16A, 2x32A, 1x40A MCB's	8
EZ9ER6R6MRE	6+6 KITBOX C/W 8 MCB - inc 100A SW, 63A RCCBx2 & 3x6A, 1x16A, 3x32A, 1x40A MCB's	12
EZ9ES2R5R5CMRE	2+5+5 KITBOX inc 100A Sw, 100A RCCBx2 & 3x6A, 1x16A, 3x32A, 1x40A MCB's	12

PV Consumer Unit

Reference	Description	Usable Ways
EZ9EPVR6R6CMCU	6+6 dual supply PV metal consumer unit 100A SW, 100A RCCBx2 and 40A energy meter	12



Garage & Shower consumer units

Reference	Description	Usable Ways
EZ9EGARAGE63	Garage unit C/W 63A RCCB and 6 & 16A MCBs	2
EZ9ESHOWER63	Shower unit C/W 63amp RCCB and 50A MCB	2

Semi-Flush mount frame

Functions

- Reduce obtrusion
- Aesthetic frame
- Neat profile finish

Semi-Flush mount frame

Reference	Description	Suitable for
EZ9EFLKIT12	Semi-Flush mount frame 12way	12way, 4+4way
EZ9EFLKIT16	Semi-Flush mount frame 16way	16way, 6+6way, 2+5+5way
EZ9EFLKIT20	Semi-Flush mount frame 20way	20way, 8+8way, 2+7+7way



Switch-disconnectors

Functions

The switch-disconnectors are used for:

- Control (opening and closing of circuits under load).
- Disconnection of on-load electrical circuits already protected against overloads and short-circuits.

2P

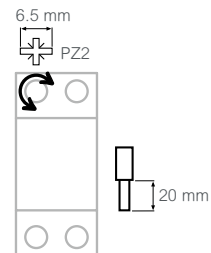
Easy9 control switches	
Rating (Ie)	
63 A	EZ9S16263
100 A	EZ9S16291
Voltage rating (Ue)	400 V, 50/60 Hz
Width in 9-mm modules	4



Certified compliant BSEN60947-3

Connection

Rigid copper cables	
≤ 50 mm ²	Tightening torque: 3.5 Nm
Flexible copper cables	
≤ 35 mm ²	Tightening torque: 3.5 Nm




RCCB residual current circuit breakers

Functions

- Tripping in case of leakage current only.
- One RCCB protects several circuits when fitted upstream of a group of circuit breakers.

2P

Residual current circuit breakers AC 	
Rating (In)	30 mA
63 A	EZ9R33263
100 A	EZ9R33291
Voltage rating (Ue)	127 - 230 V, 50/60 Hz
Width in 9-mm modules	4



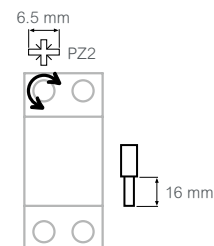
Certified compliant BSEN61008-1

Additional feature

Endurance (O-C)	Electrical	2000 cycles
	Mechanical	5000 cycles
Conditional rated short circuit current (Inc/IΔc)	With fuse	3000 A
	With Easy9 MCB	3000 A
Operating temperature		-5°C to +60°C
Storage temperature		-40°C to +85°C
Electrical feeding		By the top and the bottom

Connection

Rigid copper cables	
1 to 35 mm ²	Tightening torque: 3.5 Nm
Flexible copper cables	
1 to 25 mm ²	Tightening torque: 3.5 Nm



Miniature circuit breaker

Functions

Protection against:

- Short-circuits
- Cable overloads
- Disconnection of on-load electrical circuits already protected against overloads and short-circuits.



1P

Circuit breakers		
Rating (In)	Curve B	Curve C
3 A	EZ9F16103	-
6 A	EZ9F16106	EZ9F66106
10 A	EZ9F16110	EZ9F66110
16 A	EZ9F16116	EZ9F66116
20 A	EZ9F16120	EZ9F66120
25 A	EZ9F16125	-
32 A	EZ9F16132	EZ9F66132
40 A	EZ9F16140	EZ9F66140
50 A	EZ9F16150	EZ9F66150
Width in 9-mm modules	2	

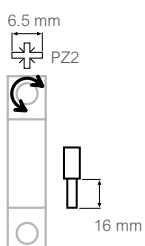
Certified compliant BS EN 60898-1

Additional feature

According to EN 60898-1		
Breaking capacity (Icn)		
Ph/N	230 V AC	6000 A
Additional characteristics		
Endurance (O-C)	Electrical	4,000 cycles
	Mechanical	10,000 cycles
Operating temperature	-5°C to +60°C	
Storage temperature	-40°C to +85°C	

Connection

Rigid copper cables		
3 to 25 A	1 to 25 mm ²	Tightening torque: 2 Nm
32 to 50 A	1 to 35 mm ²	Tightening torque: 3.5 Nm
Flexible copper cables		
3 to 25 A	1 to 16 mm ²	Tightening torque: 2 Nm
32 to 50 A	1 to 25 mm ²	Tightening torque: 3.5 Nm




RCBO residual current devices

Functions

- Protection from short-circuits.
- Protection of cable from overloads.
- Protection of persons from electric shocks by direct contact (30 mA sensitivity)
- Can be fitted instead of a miniature circuit breaker for complete protection of one circuit.

The Earth Reference Cable “FE”: enables RCD to protect users from electric shocks, even in case of supply neutral loss, neutral conductor breakage or supply voltage drop (FE= Functional Earth).

1P+N Type - A

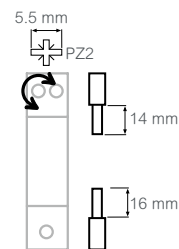
Easy9 RCBO type A  30 mA	
Rating (In)	B curve
6 A	EZ9D16806
10 A	EZ9D16810
16 A	EZ9D16816
20 A	EZ9D16820
25 A	EZ9D16825
32 A	EZ9D16832
40 A	EZ9D16840
50 A	EZ9D16850
Voltage rating (Ue)	230 V AC, 50 Hz
Width in 9-mm modules	2



Certified compliant BS EN 61009-1

Connection

Rigid copper cables		
L in	1 to 25 mm ²	Tightening torque: 2 Nm
L and N out	1 to 16 mm ²	Tightening torque: 2 Nm
Flexible copper cables		
L in	1 to 16 mm ²	Tightening torque: 2 Nm
L and N out	1 to 10 mm ²	Tightening torque: 2 Nm



Surge protection devices

Functions

Protection against:

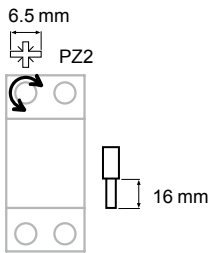
- Transient overvoltage
- Lightning strikes



1P+N Easy9 surge arrester

Maximum discharge current (max)	Nominal discharge current (In)	Voltage protection level (Up)	EZ9L33620*
20 kA	10kA	1.3 kV	
Width in 9-mm modules	4		

*Requires a 20amp MCB (EZ9F16120) or order Surge protection kit (EZ9L33620KIT) c/w MCB and cables.



Certified compliant with IEC61643-11 type 2

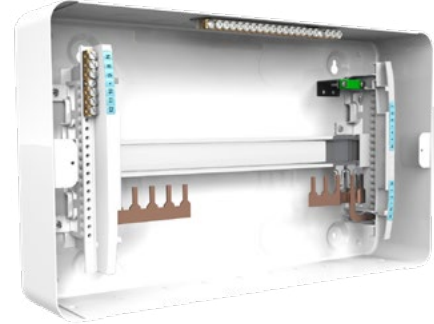
Connection

Rigid copper cables	
5 to 35 mm ²	Tightening torque: 2.5 N.m
Flexible copper cables	
5 to 25 mm ²	Tightening torque: 2.5 N.m

Product selector

Consumer units

Reference	Description	Usable Ways
EZ9E2MCU	2 WAY CU	2
EZ9E4MCU	4 WAY CU	4
EZ9E6MCU	6 WAY CU	6
EZ9E8MCU	8 WAY CU	8
EZ9E12MCU	12 WAY CU	12
EZ9E16MCU	16 WAY CU	16
EZ9E20MCU	20 WAY CU	20



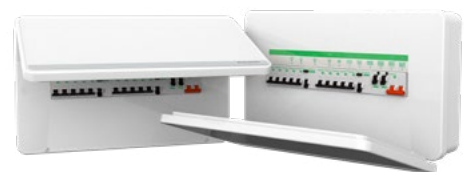
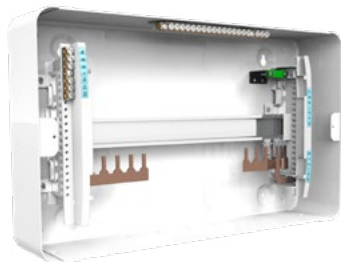
Incomers

Reference	Device	Rating	Description
EZ9S16263	Switch	63A	Switch disconnecter 2P 63A
EZ9S16291	Switch	100A	Switch disconnecter 2P 100A
EZ9R33263	RCCB	63A, 30mA	Residual current circuit breaker 2P 63A 30mA AC-type 230V
EZ9R33291	RCCB	100A, 30mA	Residual current circuit breaker 2P 100A 30mA AC-type 230V



Split load

Reference	Device	Rating	Description
EZ963R30KIT2	Split load RCCB kit	63A, 30mA	63A 30mA Split load kit, inc cables
EZ9100R30KIT2	Split load RCCB kit	100A, 30mA	100A 30mA Split load kit, inc cables



OR Select consumer units with switch/RCD's fitted

Surge Protection Consumer Unit:

Reference	Description	Usable ways	Unprotected ways	RCD1 ways	RCD2 ways
EZ9ESLR7R6CMCU *	7+6 C/W SW, SPD, 100A RCCB X2	13		7	6
EZ9ESL3R5R5CMCU*	3+5+5 C/W SW, SPD, 100A RCCB X2	13	3	5	5
* Not to be used on a TT earthing system					

Dual RCD consumer units

Reference	Description	Usable ways	Unprotected ways	RCD1 ways	RCD2 ways
EZ9ER4R4MCU	4+4 C/W SW, 63A RCCB X 2	8		4	4
EZ9ER6R6MCU	6+6 C/W SW, 63A RCCB X 2	12		6	6
EZ9ER6R6CMCU	6+6 C/W SW, 100A RCCB X 2	12		6	6
EZ9ER8R8CMCU	8+8 C/W SW, 100A RCCB X 2	16		8	8

Multiple split consumer units

Reference	Description	Usable ways	Unprotected ways	RCD1 ways	RCD2 ways
EZ9ES2R5R5CMCU	2+5+5 C/W SW, 100A RCCB X 2	12	2	5	5
EZ9ES2R7R7CMCU	2+7+7 C/W SW, 100A RCCB X 2	16	2	7	7

Flexible split consumer units

Reference	Description	Usable ways	Max Un/P ways	Max RCD1 ways	Max RCD2 ways
EZ9EFS12CMCU	Flexible 12 WAY CU 2+5+5 C/W SW, 100A RCCB X 2	12	4	7	7
EZ9EFS16CMCU	Flexible 16 WAY CU 2+7+7 C/W SW, 100A RCCB X 2	16	4	9	9

Populated Consumer Unit

Reference	Description	Usable ways	Unprotected ways	RCD1 ways	RCD2 ways
EZ9ER4R4MRE	4+4 KITBOX C/W 6 MCB - (2x6A, 1x16A, 2x32A, 1x40A)	8		4	4
EZ9ER6R6MRE	6+6 KITBOX C/W 8 MCB - (3x6A, 1x16A, 3x32A, 1x40A)	12		6	6
EZ9ES2R5R5CMRE	2+5+5 KITBOX inc 100A Sw, 100A RCCBx2 - (3x6A, 1x16A, 3x32A, 1x40A)	12	2	5	5

Garage & shower consumer unit

Reference	Description	Usable ways	Unprotected ways	RCD1 ways	RCD2 ways
EZ9EGARAGE63	Garage unit C/W 63A RCCB, 6 & 16A MCB'S	2		2	
EZ9ESHOWER63	Shower unit C/W 63A RCCB & 50A MCB	2		2	

Semi-Flush mount frame

Reference	Description	Suitable for	Suitable for:
EZ9EFLKIT12	EZ9 SEMI-FLUSH MOUNT 12	12way, 4+4way	EZ9E12MCU, EZ9ER4R4MCU, EZ9ER4R4MRE
EZ9EFLKIT16	EZ9 SEMI-FLUSH MOUNT 16	16way, 6+6way, 2+5+5way	EZ9E16MCU, EZ9ER6R6MCU, EZ9ER6R6CMCU, EZ9ER6R6DMRE, EZ9ES2R5R5CMCU, EZ9ES2R5R5CMRE, EZ9EFS12CMCU
EZ9EFLKIT20	EZ9 SEMI-FLUSH MOUNT 20	20way, 8+8way, 2+7+7way	EZ9E20MCU, EZ9ER8R8CMCU, EZ9ES2R7R7CMCU, EZ9EFS16CMCU, EZ9ESLR7R6CMCU, EZ9ESL3R5R5CMCU, EZ9EPVR6R6CMCU

+ Select outgoing devices and accessories



Devices



Incomers

Reference	Description	Current Rating (A)
EZ9S16263	Switch Disconnecter 2P 63A 400V	63
EZ9S16291	Switch Disconnecter 2P 100A 400V	100
EZ9R33263	RCCB 2P 63A 30mA AC-type 230V	63
EZ9R33291	RCCB 2P 100A 30mA AC-type 230V	100

Type B MCB's - 1P 6KA 230v

Reference	Description	Current Rating (A)
EZ9F16103	Single pole 3A type B MCB	3
EZ9F16106	Single pole 6A type B MCB	6
EZ9F16110	Single pole 10A type B MCB	10
EZ9F16116	Single pole 16A type B MCB	16
EZ9F16120	Single pole 20A type B MCB	20
EZ9F16125	Single pole 25A type B MCB	25
EZ9F16132	Single pole 32A type B MCB	32
EZ9F16140	Single pole 40A type B MCB	40
EZ9F16150	Single pole 50A type B MCB	50

Type C MCB's - 1P 6KA 230v

Reference	Description	Current Rating (A)
EZ9F66106	Single pole 6A type C MCB	6
EZ9F66110	Single pole 10A type C MCB	10
EZ9F66116	Single pole 16A type C MCB	16
EZ9F66120	Single pole 20A type C MCB	20
EZ9F66132	Single pole 32A type C MCB	32
EZ9F66140	Single pole 40A type C MCB	40
EZ9F66150	Single pole 50A type C MCB	50

RCBO's - 1P 6kA 30mA B Curve Class Type A 230V

Reference	Description	Current Rating (A)
EZ9D16806	Single pole 6A RCBO	6
EZ9D16810	Single pole 10A RCBO	10
EZ9D16816	Single pole 16A RCBO	16
EZ9D16820	Single pole 20A RCBO	20
EZ9D16825	Single pole 25A RCBO	25
EZ9D16832	Single pole 32A RCBO	32
EZ9D16840	Single pole 40A RCBO	40
EZ9D16850	Single pole 50A RCBO	50

Surge Protection

Reference	Description	Type
EZ9L33620 * **	Surge Arrest T2 1P-N 20kA	Type 2
EZ9L33620KIT **	Surge Arrest KIT T2 1P-N 20kA, inc 20A MCB and cable links	Type 2

*Requires a 20amp MCB EZ9F16120

** Not to be used on a TT earthing system



Accessories

Reference	Description
EZ963R30KIT2 *	1x 63A 30mA Split load kit supplied with cables
EZ9100R30KIT2 *	1x 100A 30mA Split load kit supplied with cables
EZ916BKIT	Spare 16 way busbar
EZ9ECLMP	Incoming Cable clamp
SEDNBP3	Blank module 3pole
EZ9EBP	Din rail mounted blank pole
EZ9ESP	Label pack
EZ9LKCLIP	EZ9 / R9 Door lock clip
EZ9ELKBAR	EZ9 / R9 universal locking bar
SELA	MCB lock clip

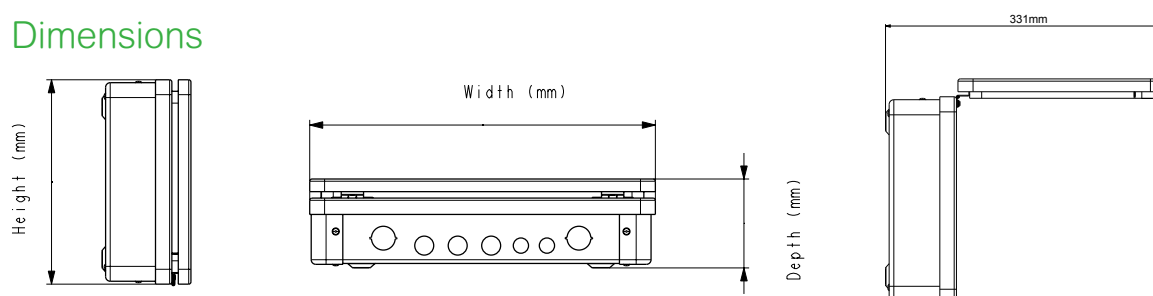
* Can only be used on 8way/12way/16way consumer unit.

Technical

Dimensions

Ref No	Type	Usable ways	Height (mm)	Width (mm)	Depth (mm)
EZ9E2MCU	Standard	2	277	213	120
EZ9E4MCU	Standard	4	277	249	120
EZ9E6MCU	Standard	6	277	285	120
EZ9E8MCU	Standard	8	277	321	120
EZ9E12MCU	Standard	12	277	393	120
EZ9E16MCU	Standard	16	277	465	120
EZ9E20MCU	Standard	20	277	537	120
EZ9EFS12CMCU	Flexible split	12	277	465	120
EZ9EFS16CMCU	Flexible split	16	277	537	120
EZ9ER4R4MCU	Split	8	277	393	120
EZ9ER6R6MCU	Split	12	277	465	120
EZ9ER6R6CMCU	Split	12	277	465	120
EZ9ER8R8CMCU	Split	16	277	537	120
EZ9ES2R5R5CMCU	Multiple	12	277	465	120
EZ9ES2R7R7CMCU	Multiple	16	277	537	120
EZ9ER4R4MRE	Split	8	277	393	120
EZ9ER6R6MRE	Split	12	277	465	120
EZ9ES2R5R5CMRE	Multiple	12	277	465	120
EZ9EGARAGE63	Garage	2	277	213	120
EZ9ESHOWER63	Shower	2	277	213	120
EZ9EPVR6R6CMCU	PV	12	277	537	120
EZ9ESLR7R6CMCU	SPD	13	277	537	120
EZ9ESL3R5R5CMCU	SPD	13	277	537	120

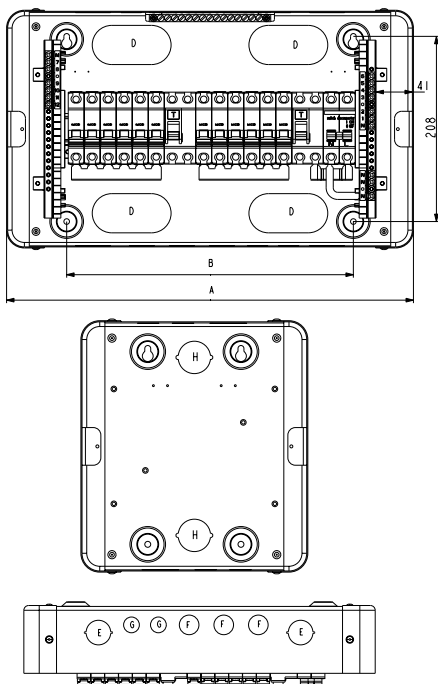
Dimensions



Dimensions / knockouts

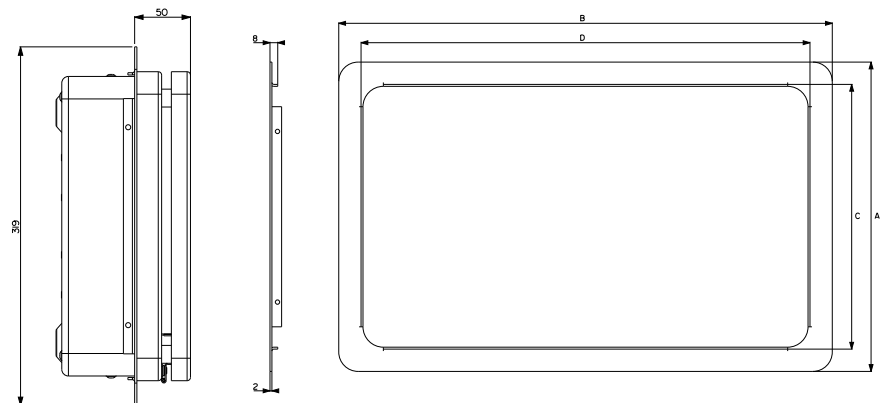
Ref No	Dimensions (mm)		44x86mm	Dia. 32mm	Dia. 25mm	Dia. 20mm	Dia. 32mm (rear)
	A	B					
EZ9E2MCU	205	75	-	1	-	1	2
EZ9E4MCU	241	111	-	1	-	2	2
EZ9E6MCU	277	139	2	1	2	1	-
EZ9E8MCU	313	171	2	1	2	2	-
EZ9E12MCU	385	250	4	2	3	-	-
EZ9E16MCU	457	322	4	2	3	2	-
EZ9E20MCU	529	394	6	2	3	2	-
EZ9EFS12CMCU	457	322	4	2	3	2	-
EZ9EFS16CMCU	529	394	6	2	3	2	-
EZ9ER4R4MCU	385	250	4	2	3	-	-
EZ9ER6R6MCU	457	322	4	2	3	2	-
EZ9ER6R6CMCU	457	322	4	2	3	2	-
EZ9ER8R8CMCU	529	394	6	2	3	2	-
EZ9ES2R5R5CMCU	457	322	4	2	3	2	-
EZ9ES2R7R7CMCU	529	394	6	2	3	2	-
EZ9ER4R4MRE	385	250	4	2	3	-	-
EZ9ER6R6MRE	457	322	4	2	3	2	-
EZ9ES2R5R5CMRE	457	322	4	2	3	2	-
EZ9EGARAGE63	205	75	-	1	-	1	2
EZ9ESHOWER63	205	75	-				
EZ9EPVR6R6CMCU	529	394	6				
EZ9ESLR7R6CMCU	529	394	6				
EZ9ESL3R5R5CMCU	529	394	6				

Dimensions (mm)

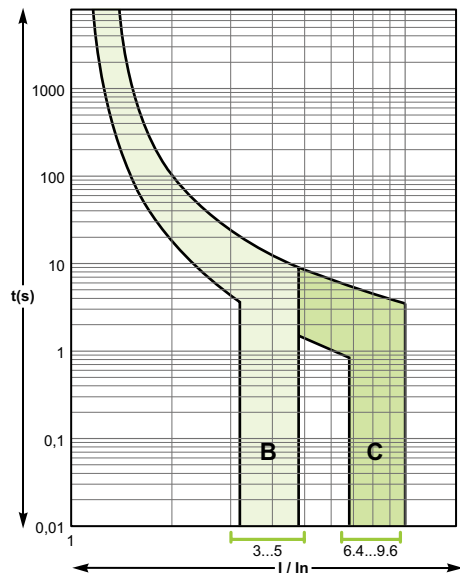


Semi-Flush mount frame

Ref No	Description	External Dimensions (mm)		Internal cut out Dimensions (mm)	
		A	B	C	D
EZ9EFLKIT12	EZ9 SEMI-FLUSH MOUNT 12	319	437	273	391
EZ9EFLKIT16	EZ9 SEMI-FLUSH MOUNT 16	319	509	273	463
EZ9EFLKIT20	EZ9 SEMI-FLUSH MOUNT 20	319	581	273	535


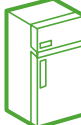











Time current tripping curves



Miniature circuit breakers

MCB selection chart for household appliances

Appliance	Capacity	MCB rating (A)	Tripping curves
Air conditioner 	1 ton	16	
	1.5 ton	20	
	2 ton	20	
	3 ton	25	
Refrigerator 	165 litres	2	"C"
	285 litres	2	
Water heater 	1 kW	6	
	3 kW	16	
Electric kettle 	1.5 kW	10	"B"
Food processor (50 % load) 	200 W	1	
Vacuum cleaner 	50 W	0.5	"C"
Toaster 	1.2 kW	6	
Cooking range 	750 W	4	"B"
	2 kW	10	
	4.5 kW	25	
Room heater 	1 kW	6	
	2 kW	10	
Washing machine 	300 W	2	"C"
	1.3 kW	10	
Electric iron 	750 W	6	"B"
	1.25 kW	6	

Miniature circuit breakers

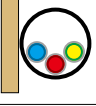
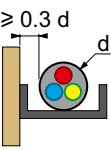
Selection of circuit breakers according to the cables to be protected (BS 7671)

- PVC-insulated, copper, flexible or rigid cable.
- Ambient temperature:
 - 30°C in the open air (methods A, B, C, E)
 - 20°C if buried (method D),
- For other situations, refer to BS 7671 standard (or UK wiring regulations).

Function

- Protection from short-circuits.
- Protection of cable from overload.

MCB current rating Single-phase circuit

Cable cross section (in mm ²)	1.5	2.5	4	6	10	16	25	35	
Type of installation Maximum rating of the circuit breaker used there (in Ampere)									
A: in conduit or directly in thermally insulated wall, moulding, architrave, window frame									
Single core		10	16	25	32	40	50	80	80
Multicore		10	16	25	32	40	50	70	80
B: in conduit in a wall, in conduit trunking or cable duct on a wall, in building cavity									
Single core		16	20	32	40	50	70	100	125
Multicore		16	20	25	32	50	50	80	80
C: direct on a wall, suspended from ceilings, on unperforated cable tray, in masonry wall									
Single core or multicore		16	25	32	40	63	80	100	125
D: in conduit in the ground									
Multicore or single core		20	25	32	40	50	70	80	80
D: directly in the ground									
Multicore or single core		20	25	32	40	63	80	100	125
E: in free-air, on cable ladder, on perforated cable tray									
Multicore		20	25	40	40	70	80	100	125

Residual current devices

Function

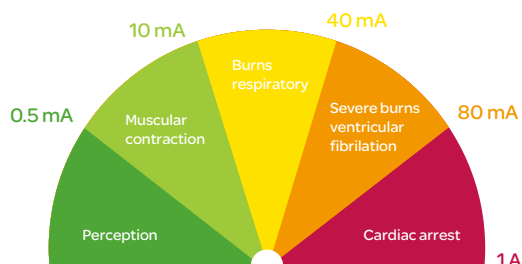
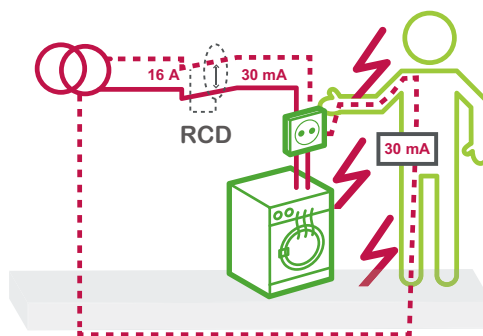
- Protection of persons against electric shock by direct contact (30 mA).
- Protection of installations against the risk of fire (300 mA).
- Protection of persons against electric shock by indirect contact (100 mA to 300 mA).



Operating principle

Protection from electric shocks by direct contact:

- Protection of persons against electric shock by direct contact (30 mA).
- Protection of installations against the risk of fire (300 mA).
- Protection of persons against electric shock by indirect contact (100 mA to 300 mA).



Research worldwide shows that the intensity of current flowing through the body determines the extent and severity of an electric shock.

By measuring the intensity difference between live and neutral conductors, RCDs actually detect the current flowing through the human body. If this current reaches the 30 mA limit, the RCD trips within a few milliseconds, so preventing injury or worse.

- Injuries become serious when currents exceed 40 to 50 mA during one second.
- Theoretically, a 150 mA current flows through the body when a person touches a 230 V energised conductor under dry conditions.

Check RCDs regularly

Test






Testing the RCD every 3 months enables detection of any event that may have impaired its operation



Residual current devices

Selection

Residual current sensitivity

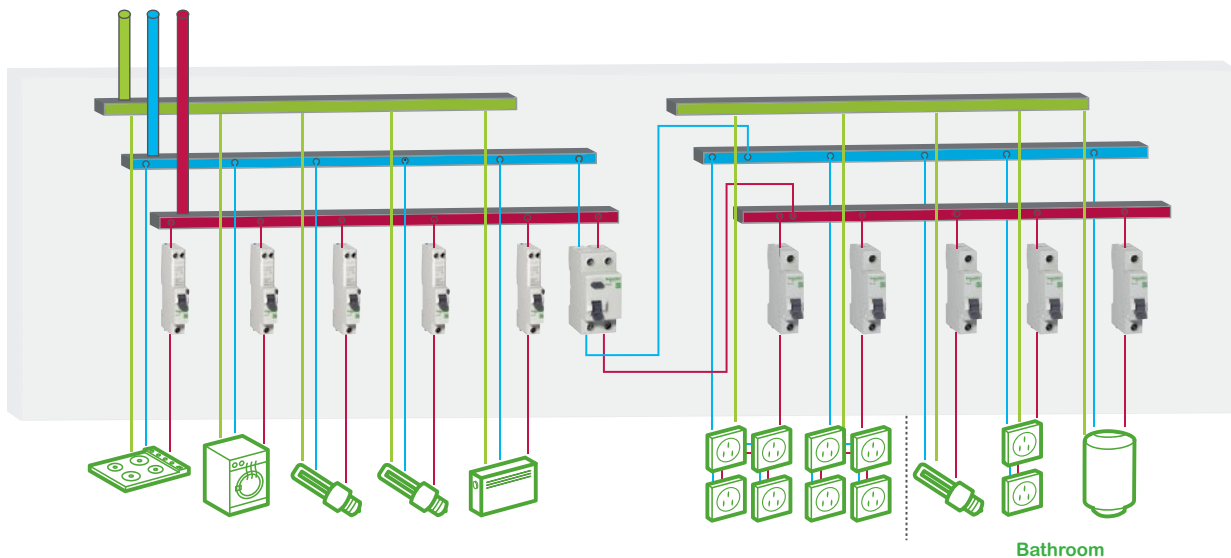
Protection from	Residential	Non-residential	Sensitivity
 <p>Electric shocks by direct contact</p>	<p>Mandatory protection for all socket outlets Mandatory protection for all electrical equipment in bathroom Recommended for lighting circuits</p>	<p>Mandatory protection for all socket outlets Mandatory protection for all equipment located close to water points</p>	<p>30 mA 10 mA for all applications where required by the standard (e.g.: jacuzzi, swimming pools, etc.)</p>
 <p>Fire ignited by leakage current</p>	<p>Recommended in old buildings (presence of dust or moisture)</p>	<p>Mandatory in all locations under risk of fire or explosion Recommended in all premises under presence of dust, moisture, chemical agents.</p>	<p>300 mA</p>
 <p>Electric shock by indirect contact</p>	<p>All circuits in case of "TT" earthing system</p>	<p>All circuits in case of "TT" earthing system</p>	<p>100 mA or 300 mA</p>

! **Current rating:** shall not be in excess of upstream MCB current rating

Requirements from wiring regulation (411.3.3)

Protection by means of a residual current protective device (RCD), shall be provided for:

- Socket outlets with a rated current not exceeding 20 A, mobile equipment with a current rating not exceeding 32 A for use outdoors.
- In rooms containing a bath or a shower.
- Cables in walls/ partitions
- EV charging circuits
- Swimming pools



Bathroom

Switch-disconnectors



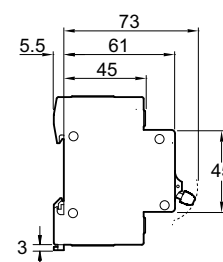
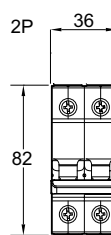
Positive contact indication
 Suitable for isolation according to BSEN 60947-3 standard
 Manual control on front face by O-I lever

Characteristics

Main characteristics			
Operating category	AC-22 A		
Permissible rated short-time withstand current (I _{cw})	12 I _e , 1 second		
Conditional rated short-circuit current (I _{nc})	5000 A		
Rated short-circuit closing current (I _{cm})	15 I _e		
Additional characteristics			
Degree of protection (IEC 60529)	Device only	IP20	
Endurance (O-C)	Mechanical	40 -100 A	8500 cycles
	Electrical	40-100 A	1500 cycles
Operating temperature	-5°C to +55°C		
Storage temperature	-5°C to +70°C		
Tropicalisation (IEC 60068-1)	Treatment 2 (relative humidity 95 % to 55°C)		

Dimensions (mm)

Weight (g)	
Type	Easy9 switch-disconnector
2P	175



RCCB residual current circuit breakers



+ Positive contact indication.
 Fault tripping indication on the front panel by the position of the handle (O - I engraved)

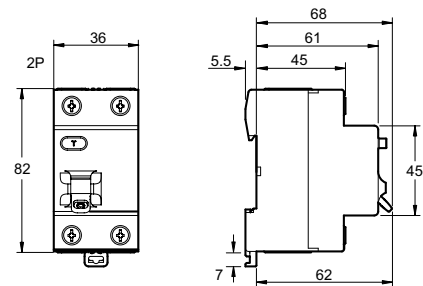
Characteristics

Main characteristics		
Rated impulse withstand voltage (Uimp)	4 kV	
According to IEC 61008-1		
Making and breaking capacity (Im/IΔm)	500 A	
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
Hazardous substances		RoHS 2003 compliant
Tropicalisation (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)

Passive, will not trip in the event of a voltage loss

Weight (g) and Dimensions (mm)

Weight (g)	
Type	Easy9 RCCB
2P	195



Miniature circuit breakers

6 kA

Easy9 circuit breakers combine the following functions:

- Circuit protection against short-circuit currents.
- Circuit protection against overload currents.



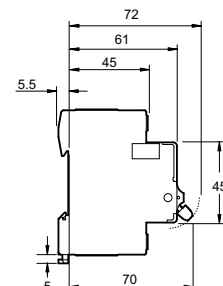
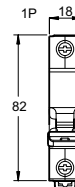
Fault tripping indication on the front panel by the position of the handle
(O - I engraved)

Characteristics

Main characteristics		
Voltage rating (Ue)		230/400 V AC
Operating frequency		50/60 Hz
Electrical feeding		By the top and bottom
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
Hazardous substances		RoHS 2003 compliant
Tropicalisation (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)

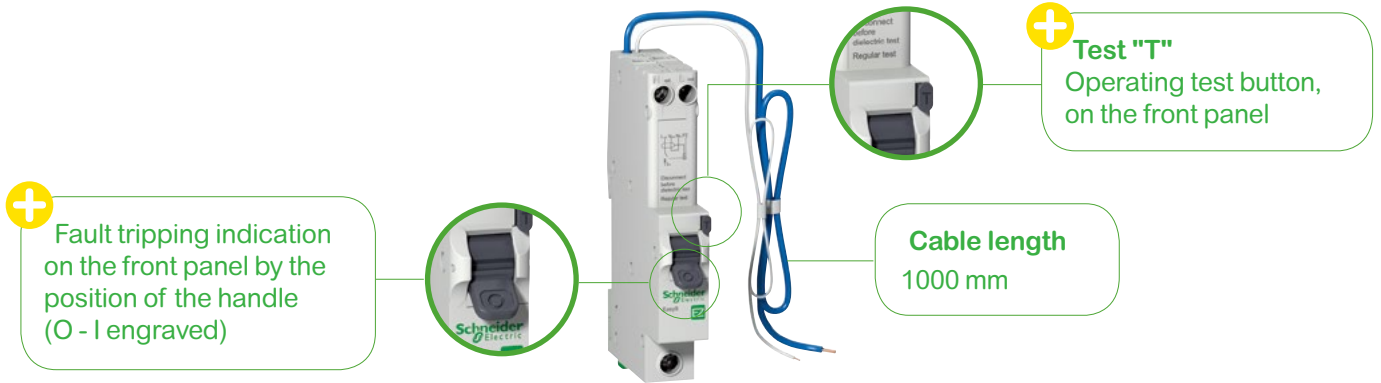
Weight (g) and Dimensions (mm)

Weight (g)	
Type	Easy9 MCB
1P	100



RCBO residual current devices 6 kA

Certified compliant BS EN 61009-1

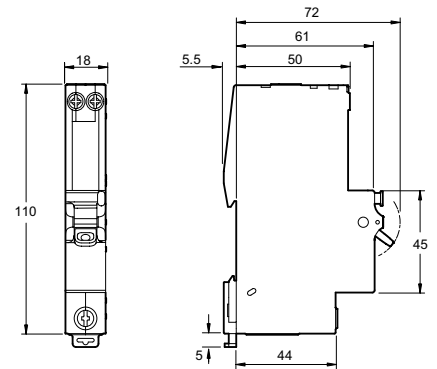


Characteristics

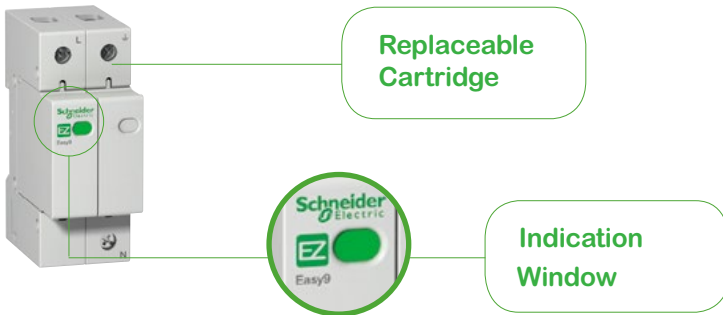
Main characteristics		
Endurance (O-C)	Electrical	4000 cycles
	Mechanical	10000 cycles
Passive, will not trip in the event of a voltage loss		
Additional characteristics		
Degree of protection	Device only	IP20
Overvoltage category (IEC 60364)	IV	
Operating temperature	-15°C to +60°C	
Storage temperature	-40°C to +85°C	
Hazardous substances	RoHS 2003 compliant	
Tropicalisation (IEC 60068-1)	Treatment 2 (relative humidity 95 % to 55°C)	

Weight (g) and Dimensions (mm)

Weight (g)	
Type	Easy9 RCBO
1P+N	180



Surge protection device Type 2



Characteristics

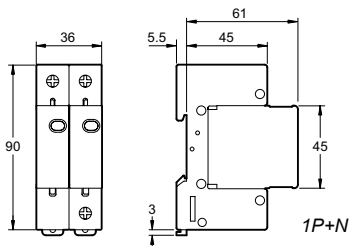
Main characteristics		
Network maximum voltage	Ph / N	230 V, 50/60 Hz
Additional characteristics		
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Storage temperature		-5°C to +70°C
Operating temperature		-5°C to +60°C

Not to be used with TT earthing systems

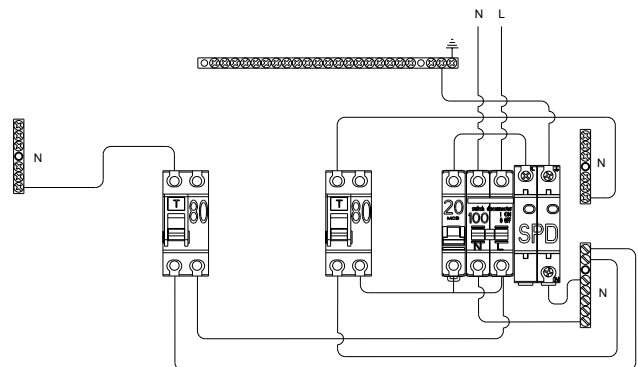
Certified compliant with IEC 61 643-11 type 2

Weight (g) and Dimensions (mm)

Type	
Type	Easy9 SPD
1P+N	188



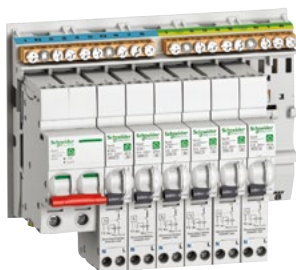
Wiring Diagram





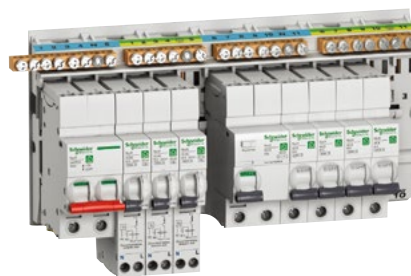


Resi9



Option 1

Incoming switch disconnecter and outgoing RCBO's



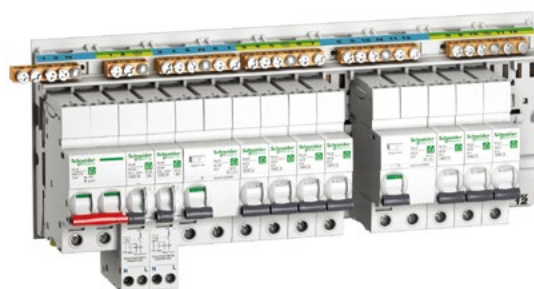
Option 2

Split load consumer unit using RCBO's



Option 3

Incoming switch disconnecter supplying two RCD protected sections



Option 4

Incoming switch disconnecter with RCBO ways and two RCD protected sections

9 Reasons to choose Resi9

- | | | |
|----|---|--|
| #1 | Plug on assembly | Peace of mind
Designed for speed of installation. |
| #2 | Encapsulated busbar | Contained reliability
Encapsulated busbars for safety and a solid, easy installation. |
| #3 | Finger safe assembly | Your safety first
For increased safety and peace of mind. |
| #4 | Device benefits | Unrivalled devices
Class II rating with insulated shuttered terminals and RCCB's with trip indicators. |
| #5 | Guaranteed connections | Quick & simple
Fewer terminals to torque test. |
| #6 | Customisable front door | Modern aesthetics
Seamlessly blend or stand out in any environment with your chosen design. |
| #7 | BS7671 compliant | Full metal enclosure
Prevents any flex or distortion when mounting the unit to any surface. |
| #8 | Increased cabling space | Easier to install
Improved design offers cabling space where it is most needed. |
| #9 | Semi-Flush mountable with a reversible door | Adaptable & flexible
Can be Semi-Flush mounted, with the door opening to suit your needs. |

Resi9

The complete solution

Insulated, safety pull up shuttered terminals

Finger touch proof terminals (FTPT)

Class II front face

Guaranteed plug-on connections

Clear and visible product information whatever the toggle position



Unique plug on system

Quick and easy to install

Type A RCBO devices

50% less connections to torque test

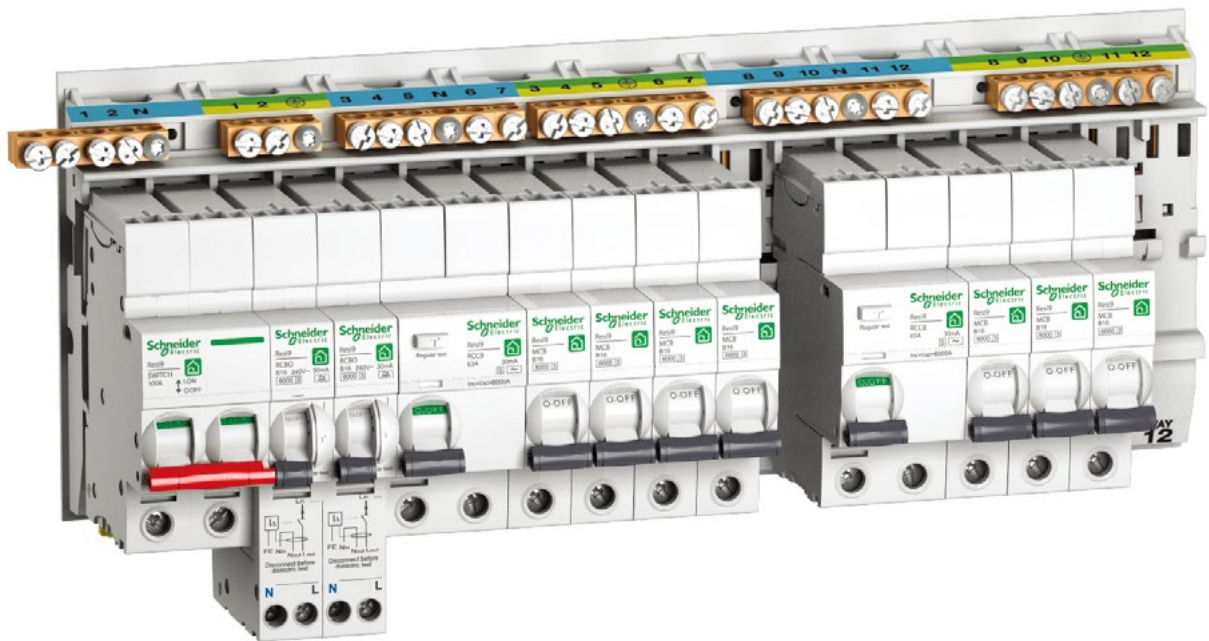
BS7671 compliant enclosures

Guaranteed compliance to standards



Resi9

The **complete** residential circuit protection offer





Resi9

Description

- Metal surface /recessed mounting enclosures
- Multiple cable entry points
- Rear knock out slots
- Secure fixed plug on assembly
- Fully encapsulated busbar assembly
- Earth terminal block and neutral blocks fitted as standard
- Earthed cover
- Enclosure colour: White RAL 9003
- Reversible door
- Can be mounted horizontally or vertically
- Removable pan assembly
- Neutral bar shields
- Lock accessory
- BSEN 61439-3
- IP3X

Consumer units

Reference	Description	Usable Ways
R9HM2	2 way metal consumer unit	2
R9HM4	4 way metal consumer unit	4
R9HM6	6 way metal consumer unit	6
R9HM8	8 way metal consumer unit	8
R9HM12	12 way metal consumer unit	12
R9HM16	16 way metal consumer unit	16

Split load consumer unit

Reference	Description	Usable Ways
R9HMS4R6	4+6 metal split load CU	10
R9HMS5R5	5+5 metal split load CU	10
R9HMS6R4	6+4 metal split load CU	10
R9HMS7R7	7+7 metal split load CU	14

Split RCD consumer units including incoming devices

Reference	Description	Usable Ways
R9HMSR6R6	6+6 metal consumer unit - 2 x 63A RCCB	12
R9HMS2R5R5	2+5+5 metal consumer unit - 1 x 100a Sw + 2 x 63A RCCB	12
R9HMDS2R5R5	2+5+5 metal consumer unit - 1 x 100A Sw + 2 x 100A RCCB	12

Time Delay Consumer Unit

Reference	Description	Usable Ways
R9HMDR2R5R5S	2+5+5 metal consumer unit - 1x 100A TD RCCB + 2 x 100A RCCB	12

Semi-Flush mount frame compatible with Resi9

Reference	Description	Suitable for
EZ9ELFKIT12	Semi-Flush mount frame 12way	12way
EZ9EFLKIT16	Semi-Flush mount frame 16way	16way, 6+6way, 2+5+5way

Devices



Incomers

Reference	Description
R9S87291	Switch 2P 100A
R9R81263	RCCB 2P 63A 30mA AC-type
R9R81291	RCCB 2P 100A 30mA AC-type
R9R85291	RCCB 2P 100A 300mA TD AC-type
SE1100L	Terminal block SP 100A



Type B MCB's - 1P 6KA 230v

Reference	Description
R9F87103	Single pole 3A type B MCB
R9F87106	Single pole 6A type B MCB
R9F87110	Single pole 10A type B MCB
R9F87116	Single pole 16A type B MCB
R9F87120	Single pole 20A type B MCB
R9F87125	Single pole 25A type B MCB
R9F87132	Single pole 32A type B MCB
R9F87140	Single pole 40A type B MCB
R9F87150	Single pole 50A type B MCB
R9F87163	Single pole 63A type B MCB



RCBO's - 1P 30mA 6KA class type A 230v

Reference	Description
R9D87806	Single pole RCBO 6A 30mA
R9D87810	Single pole RCBO 10A 30mA
R9D87816	Single pole RCBO 16A 30mA
R9D87820	Single pole RCBO 20A 30mA
R9D87832	Single pole RCBO 32A 30mA
R9D87840	Single pole RCBO 40A 30mA
R9D87850	Single pole RCBO 50A 30mA

Control devices and accessories

Accessories

Reference	Description
A9C20732	ICT 25A 2NO 230/240VAC 50HZ contactor
A9C20834	ICT 25A 4NO 220/240VAC 50HZ contactor
A9C20842	ICT 40A 2NO 220/240VAC 50HZ contactor
A9C20843	ICT 40A 3NO 220/240VAC 50HZ contactor
A9C20844	ICT 40A 4NO 220/240VAC 50HZ contactor
A9C20863	ICT 63A 3NO 220/240VAC 50HZ contactor
A9C30811	ITL16A 1NO 230/240VAC 110VDC 50-60
A9C30812	ITL16A 2NO 230/240VAC 50-60HZ 110V
A9E15535	Changeover relay IRLI 10A 2P UC 230V-240
A9A15321	ISO Bell 8/12V
A9A15214	Bell transformer 4VA 230VCA 8VCA
A9A15323	Buzzer 8/12 VCA 70DBA 50..60HZ
CCT15368	IC2000 light sensitive switch
15336	24HR analogue time switch with reserve
CCT15720	1 Channel IHP program time switch
CCT15722	2 Channel IHP program time switch
15363	MIN time switch 1-7mins (delayed off)
A9A27062	5X Spacer 9MM - 1/2 module blank
SEPLMCB	MCB Padlock attachment (pk10) MCB
SEPLRCBO	RCBO Padlock attachment (pk10) RCBO
SEPL	Padlock (can be used with MCB or RCBO attachment)
SEDNBP3	3 module blanking plate module
EZ9ELKBAR	EZ9 R9 universal locking bar
EZ9LKCLIP	EZ9 R9 locking clip
R9HCLMP	R9 incoming cable clamp kit
EZ9ESP	Label pack

Control devices

May be installed at any outgoing point on the RCD protected or unprotected side

Single phase meters

Reference	Description	Modules
A9MEM2100	63A direct connect single-phase kwh meter	2
A9MEM2105	63A direct connect single-phase kwh meter with pulse output	2
A9MEM2110	63A direct connect MID approved single-phase meter with pulse output and dual tariffs	2
A9MEM2150	63A direct connect single-phase meter with Modbus	2
A9MEM2135	63A direct connect MID approved single-phase meter with M-bus and dual tariffs	2
A9MEM2155	63A direct connect MID approved single-phase meter with Modbus and dual tariffs	2



Switch-disconnector

ON/OFF

Switch-disconnector

To ensure control and disconnection of loaded electrical circuits

It must be protected:

- Against short circuits occurring downstream
- Against overloads; its rating must be at least equal to the rating of the upstream circuit breaker.



Type	Width	Operating voltage	Rating	Cat. no.
	9 mm module	(V AC)	(A)	
2P	4	400	100	R9S87291

Features:

- Degree of pollution: 2.
- Degree of protection (BS EN 60529): IP20B.

Connection:

- Copper cable:
 - » rigid: Max. 50 mm².
- Flexible: Max. 35 mm².
 - » tightening torque: 3.5 N.m.

Compliance with standards

BS EN 60947-3-1

RCCB residual current circuit breaker



Residual current circuit breakers

High sensitivity (30 mA)

Protection against electric shocks by direct contact. Use at the incoming end of several feeders:

- Recommended for all power sockets.
- Compulsory for all equipment in bathrooms, outdoors, etc.

Medium sensitivity (300mA) TD

Protection against:

- Fire following an insulation fault.
- Electric shocks by indirect contact.
- In the event of tripping of a high-sensitivity residual current protection device downstream, maintains power for the other circuits.
- Use in residential units at the incoming end of the main switchboard.



Type AC	Width	Operating voltage	Sensitivity	Rating	Cat. no.
	9 mm module	(V AC)	(mA)	(A)	
	4	230	30	63	R9R81263
			30	100	R9R81291
			300TD	100	R9R85291

Features:

- Degree of pollution: 2.
- Degree of protection (BS EN 60529): IP20B.
- Passive, will not trip in the event of a voltage loss.

Connection:

- Copper cable:
 - » rigid: Max. 35 mm².
- Flexible: Max. 25 mm².
 - » tightening torque: 3.5 N.m.

Compliance with standards

BS EN 61008-1

RCBO Residual current device



Residual current devices

Protection against:

- Cable overloads.
- Short circuits.
- Electric shocks by direct contact.

Use in place of a circuit breaker, for circuits requiring protection against direct contacts:

- Recommended for all power sockets.
- Compulsory for all equipment in bathrooms, outdoors, etc.



Type A	Width	Operating voltage	Sensitivity	Rating	Cat. no.
	9 mm module	(V AC)	(mA)	(A)	B curve
1P+N	2	230	30	6	R9D87806
				10	R9D87810
				16	R9D87816
				20	R9D87820
				32	R9D87832
				40	R9D87840
				50	R9D87850

Features:

- Class Type A
- Breaking capacity: 6000 A.
- Degree of pollution: 2.
- Degree of protection (BS EN 60529): IP20B.
- Passive, will not trip in the event of a voltage loss.

Connection:

- Copper cable:
 - » rigid: Max. 25 mm².
- Flexible: Max. 16 mm².
 - » tightening torque: 2 N.m.

Circuit breaker



Circuit breakers

Protection against:

- Cable overloads.
- Short circuits.



Type	Width	Operating voltage	Rating	Cat. no.
	9 mm module	(V AC)	(A)	B curve
1P	2	230	3	R9F87103
			6	R9F87106
			10	R9F87110
			16	R9F87116
			20	R9F87120
			25	R9F87125
			32	R9F87132
			40	R9F87140
			50	R9F87150
			63	R9F87163

Features:

- Breaking capacity: 6000 A.
- Degree of pollution: 2.
- Degree of protection (BS EN 60529): IP20B.

Connection:

- Copper cable:
 - » rigid: ≤ 25 A: Max. 25 mm², ≥ 32 A: Max. 35 mm²
 - » flexible: ≤ 25 A: Max. 16 mm², ≥ 32 A: Max. 25 mm².
- Tightening torque:
 - » ≤ 25 A: 2 N.m.
 - » ≥ 32 A: 3.5 N.m.

Compliance with standards

BS EN 60898-1

Terminal block

Features:

- Distribution and sub-distribution of the electric power supply.



Terminal block	Width	Cat. no.
1P		
100A	18 mm	SE1100L

Features:

- Degree of protection (BS EN 60529):
IP20B.

Compliance with standards BS EN 60998-1

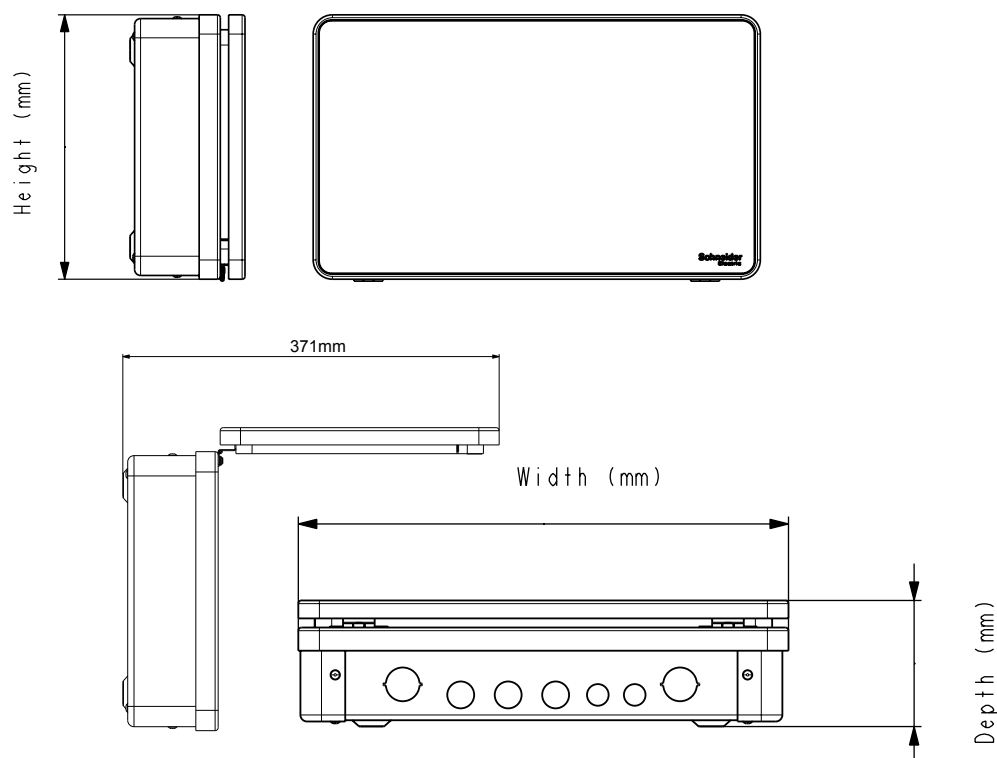
Technical guide

Resi9 consumer unit dimensions

Ref No	Type	No ways	Height (mm)	Width (mm)	Depth (mm)
R9HM2	Standard	2	277	213	120
R9HM4	Standard	4	277	249	120
R9HM6	Standard	6	277	285	120
R9HM8	Standard	8	277	321	120
R9HM12	Standard	12	277	391	120
R9HM16	Standard	16	277	465	120
R9HMSR6R6	Split	12	277	465	120
R9HMDS2R5R5	Multiple	12	277	465	120
R9HMS2R5R5	Multiple	12	277	465	120
R9HMS4R6	Split	10	277	391	120
R9HMS5R5	Split	10	277	391	120
R9HMS6R4	Split	10	277	391	120
R9HMS7R7	Split	14	277	465	120
R9HMDR2R5R5S	TD multiple	12	277	465	120

- Note: Incoming and outgoing devices must be selected separately from the Resi9 devices section.
- The following references are supplied with switch disconnector and RCDs fitted:- R9HMSR6R6, R9HMS2R5R5, R9HMDS2R5R5

Dimensions



Dimensions/knockouts

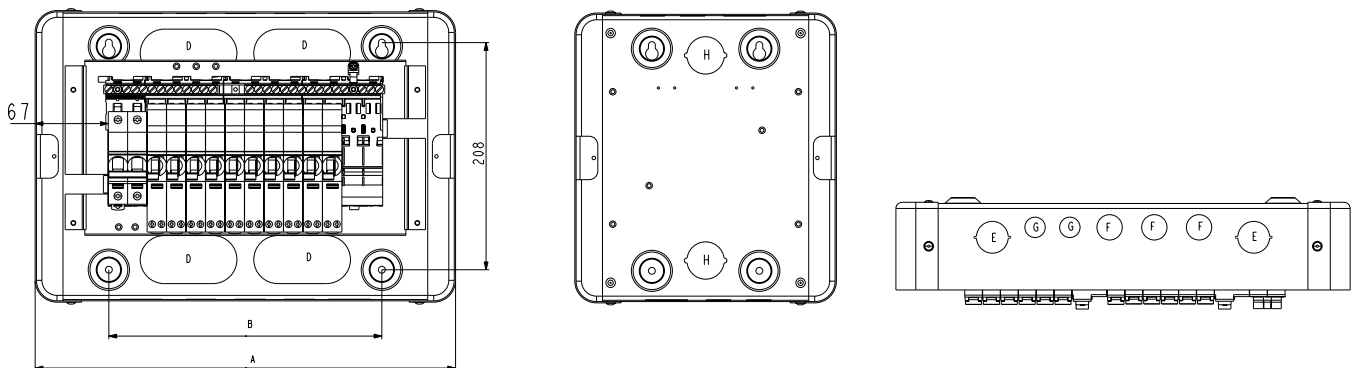
Dimensions

Ref No	Dimensions (mm)		44x86mm	Dia 32mm	Dia 25mm	Dia 20mm	Dia 32mm (rear)
	A	B	D	E	F	G	H
R9HM2	205	75	-	1	-	1	2
R9HM4	241	111	-	1	-	2	2
R9HM6	277	139	2	1	2	1	-
R9HM8	313	171	2	1	2	2	-
R9HM12	385	250	4	2	3	-	-
R9HM16	457	322	4	2	3	2	-
R9HMSR6R6	385	250	4	2	3	-	-
R9HMDS2R5R5	385	250	4	2	3	-	-
R9HMS2R5R5	385	250	4	2	3	-	-
R9HMS4R6	385	250	4	2	3	-	-
R9HMS5R5	385	250	4	2	3	-	-
R9HMS6R4	385	250	4	2	3	-	-
R9HMS7R7	457	322	4	2	3	2	-
R9HMDR2R5R5S	385	250	4	2	3	-	-

Technical data

Max. busbar current rating (A)	100
Max. operating voltage (V)	240
Operating frequency (Hz)	50
Max. incoming cable capacity mm ² (phase and neutral)	50
Max. outgoing cable capacity mm ²	25
Certification	BS EN 61439-3
IP rating BS EN 60529 (internal)	IP2XB

Dimensions





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