

Kaedra system



Index

General presentation	64
Selection guide	67
Enclosures for sockets	68
Interface enclosures	69
Fitting system	70
The functional plates & accessories	71
Assemblies: Sockets with RCD protection	74

The most complete range of solutions for protection, control and distribution panels for tertiary and industrial applications.

The new range of Kaedra system watertight enclosures provides solutions to all equipment installation problems, such as sockets, modular protection devices, buttons and indicator devices, etc., in environments where maximum protection is needed both for people and the electrical equipment.

The expected solution for a complete, coherent system, designed for the installation of all the Schneider Electric equipment, combining safety, functionality, ergonomics and design.

- ☐ Enclosures for sockets
- ☐ Enclosures for modular devices with interfaces
- ☐ Interface enclosures



Safety

Kaedra enclosures ensure maximum protection thanks to the following:

- ☐ IP65 protection;
- ☐ High resistance to shocks (IK09), chemical and atmospheric agents and UV rays;
- ☐ Materials and structure designed to guarantee double insulation and access only to authorized personnel.

In conformity with the IEC 670 standards for empty boxes, and IEC 439-3 standards for complete boards.

Ergonomics

The Kaedra enclosures provide ample wiring space enabling simplified cable entry and internal distribution. The doors and transparent flap-covers enable easy and immediate control of the operating conditions while the interface areas permit rapid access to the sockets or control devices. The standardized concept of the opening enables quick installation of all the equipment either directly or through functional plates.

Design

The modern and rounded shapes of the Kaedra enclosures are the result of careful studies on product design and ergonomics, and are recommended for public areas without spoiling the architectural surroundings with purely technological features. The use of innovative colours enables them to fit in better with their surroundings while guaranteeing the principal needs of equipment visibility and control.

Enclosures for sockets

These are available in versions for 1 to 8 sockets and include new modular openings, which enable installation of all the PK series socket or integration of control and indicator devices.

Those versions are also available for installing new PK Unika interlocked sockets and blank versions for universal sockets.

Enclosures for modular devices with interface

These are available in versions for 12, 24 and 36 modules and, thanks to the specific plates, enable installation of other control, protection, and indicator device equipment on the panel front as well as industrial PK sockets.

These devices are accessible at any time maintaining the other modular equipment totally protected, i.e. without opening the door.

Interface enclosures

These are combineable with 2 or 3-unit modular enclosures and enable front installation of control, indicator devices and sockets. The internal volume provides convenient space for cable distribution within the enclosures.



Enclosure combinations

The modular size of the Kaedra system enclosures enables them to be quickly joined both horizontally and vertically, allowing the board configuration to be adjusted according to the structural conditions of the installation environment. Furthermore, extensions can be made at any time by adjusting the panel according to the various needs.



Chassis

The Kaedra system enclosures, designed to accommodate modular devices, are equipped with an easily removable chassis to permit installation of equipment and wiring outside the board. This can be easily turned up side down to provide wide space for incoming and outgoing wiring. It is also possible to change the distance between the rails (150mm in basic version) and enabling an optimum use of the internal wiring space.



Operating details

The Kaedra enclosures have been constructed in close collaboration with installers, enabling the integration of numerous functions designed to simplify their work. Here are some examples:

- the hinges are designed to enable enclosures to be opened without removing the cover;
- the dovetail joint on the chassis and on the base permit installation of wiring collars or terminal blocks;
- circuit identification labels, totally protected to ensure legibility even after numerous operations.

Watertight mini-enclosures



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13176

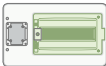




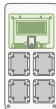
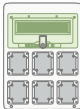
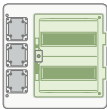
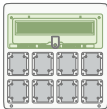


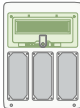
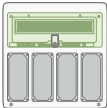


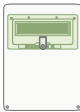


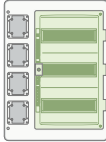


4
13177

Number of modules
Standard
With terminal blocks

Watertight enclosures

The modular dimension of Kaedra enclosures allows them to be joined vertically or horizontally.

mm	138	236	340	448
280				 1 x 12 13990
335			 12 + 1 13180  12 + 1 13191	
460	 13993  5 13178	 8 + 1 13179	 12 + 1 13181	 2 x 12 13991  18 + 1 13182
	 5 13185	 8 + 1 13186	 12 + 1 13187	 18 + 1 13188
	 5 13189	 8 + 1 13190	 12 + 1 13192	 18 + 1 13193
610	 13994			 3 x 12 13992

Kaedra system

Enclosures for sockets



Functions

They are designed for the quick installation of PK sockets thanks to the specific openings which can be fitted with adaption plates. These enclosures are available in three different versions:

- ☐ with 65 x 85 or 90 x 100 opening for PK sockets.
- ☐ with 103 x 225 opening for PK Unika panel mounted sockets.
- ☐ with blank panel, for fitting universal sockets.

Characteristics

- Degree of protection, according to IEC 529 standards : IP 65
- Degree of protection against external, mechanical impacts, according to EN 50 102 standards :IK09
- Resistance to fire and abnormal heat, according to IEC 695-2-1 : 650°C
- Top & bottom walls with knock-outs for cable entry
- Complete insulation characteristics according to EN 60439-1
- Materials :
 - ☐ housing made of self-extinguishing, engineering polymer
 - ☐ RAL colour 7035
 - ☐ knock-out holes for joining enclosures M32
 - ☐ screws head plugs

Mini enclosures for PK sockets

Dimensions H L P			18mm modules	Opening 65 x 85	Plates supplied blank	Dissipated power	Code
248	98	98	4	1 vert.		10 watt	13175
310	98	98	4	2 horizont.	1	10 watt	13176
392	98	98	4	3 horizont.	1	10 watt	13177

Enclosures for PK sockets

Dimensions H L P			Modules 18mm	Opening 90 x 100	Plates supplied Blank Intermediate		Dissipated power	Code
460	138	160	5	2	1	2	12 watt	13178
460	236	160	8	4	2	4	15 watt	13179
335	340	160	12+1	3	1	3	28 watt	13180
460	340	160	12+1	6	2	6	28 watt	13181
460	448	160	18+1	8	2	8	39 watt	13182

Enclosures for PK Unika with interlocked switch

Dimensions H L P			18mm Modules	Opening 103 x 225	Plates supplied Blank	Dissipated power	Code
460	138	160	5	1		12 watt	13185
460	236	160	8	2	1	15 watt	13186
460	340	160	12+1	3	1	28 watt	13187
460	448	160	18+1	4	1	39 watt	13188

Universal enclosures for sockets

Dimensions H L P			18mm Modules	Dissipated power	Code
460	138	160	5	12 watt	13189
460	236	160	8	15 watt	13190
335	340	160	12+1	28 watt	13191
460	340	160	12+1	28 watt	13192
460	448	160	18+1	39 watt	13193

Kaedra system

Enclosures for modular devices with interface

Interface enclosures



Functions

Enclosures with interface are designed for the construction of distribution panels with modular equipment and include front opening, usually supplied closed, for the installation of control and indicator devices or PK sockets. These modular openings can be equipped by functional plates. The interface enclosures are designed to be combined with socket or modular device enclosures to extend their use to frontal operation, by means of specific plates, and to permit easier wiring.

Characteristics

- Degree of protection, according to IEC 529 standards : IP 65
- Degree of protection against external, mechanical impacts, according to EN 50 102 standards: IK09
- Resistance to fire and abnormal heat, according to IEC 695-2-1 : 650°C
- Top & bottom walls with knock outs for cable entry
- Equipped with terminal block
- Complete insulation characteristics according to EN 60439-1
- Materials :
 - housing made of self-extinguishing, engineering polymer
 - RAL colour 7035
 - knock-out holes for joining enclosures M32
 - screws head plugs



Enclosures for modular devices with interface

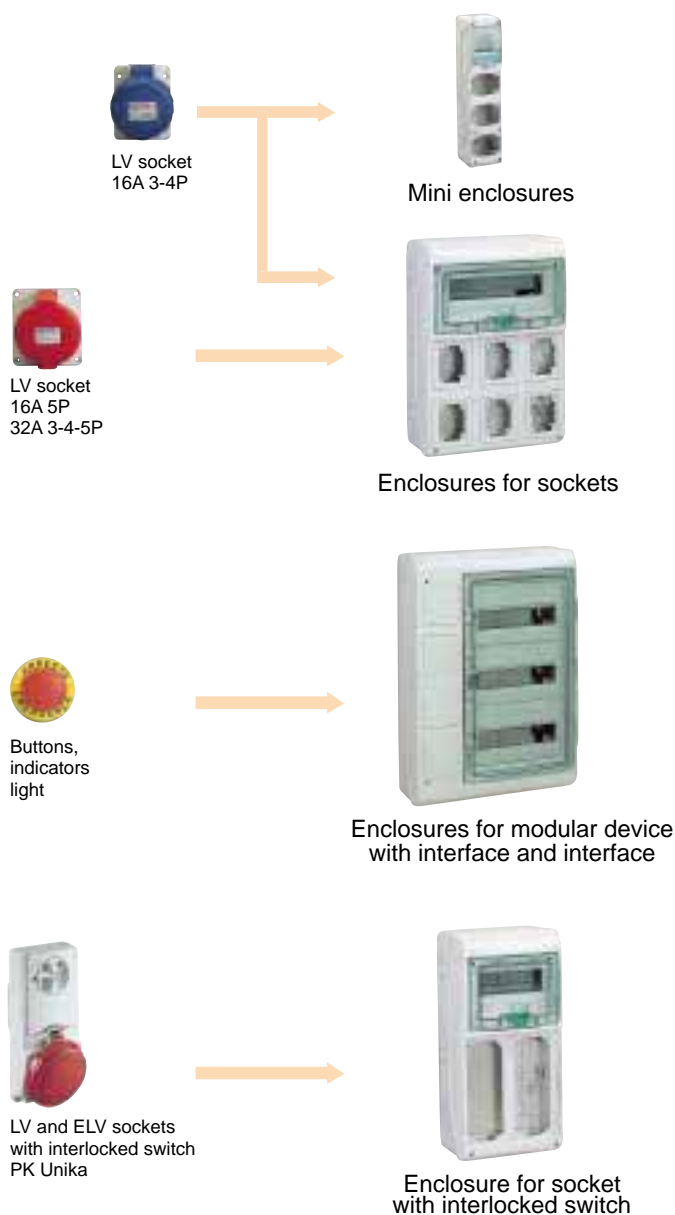
Dimensions			18mm Modules	Opening 90 x 100	Plates supplied		Dissipated power	Code
H	L	P			Blank	Intermediate		
280 x 448 x 160			12	1	1	1	30 watt	13990
460 x 448 x 160			24	3	3	1	37 watt	13991
610 x 448 x 160			36	4	4	1	50 watt	13992



Interface enclosures

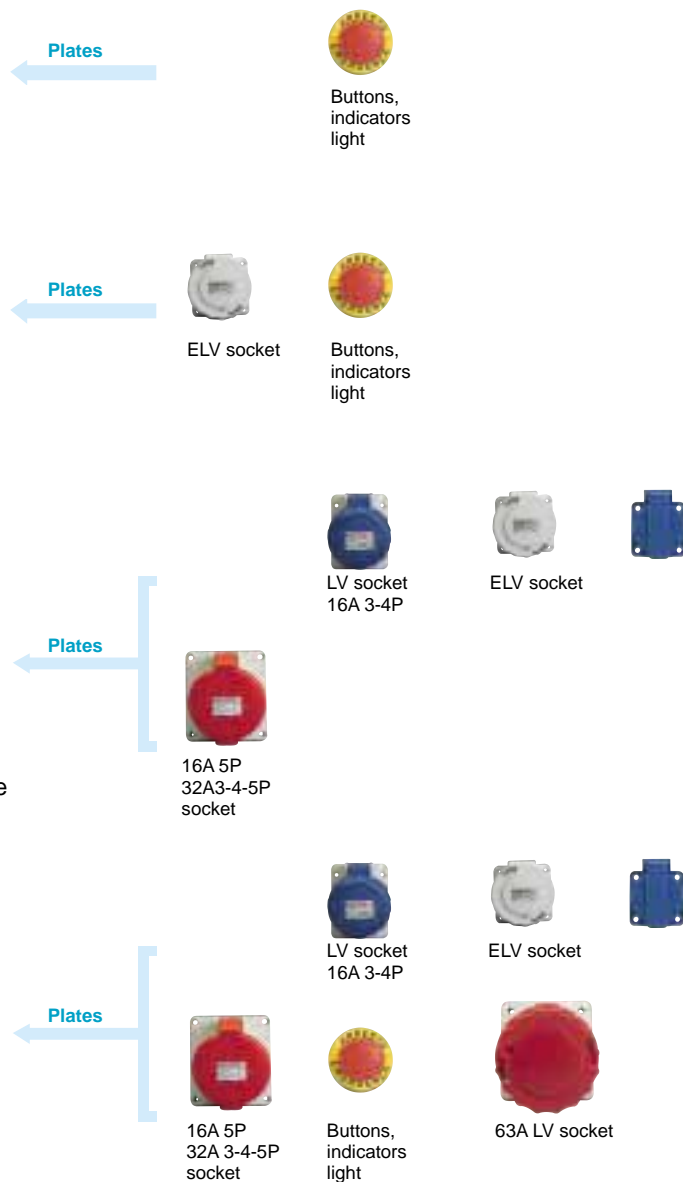
Dimensions			Opening 90 x 100	Plates supplied		Code
H	L	P		Blank	Intermediate	
460 x 138 x 125			3	3	1	13993
610 x 138 x 125			4	4	1	13994

Direct mounting



Indirect mounting

These products can be mounted on Kaedra using mounting plates



All Kaedra enclosures for sockets are delivered with an intermediate plate (13136) already mounted on each opening; remove it before mounting a 16A 5P or 32A 3-4-5P socket.

Kaedra for modular device with interface have the plate 13138 already mounted on each opening.

The standard openings

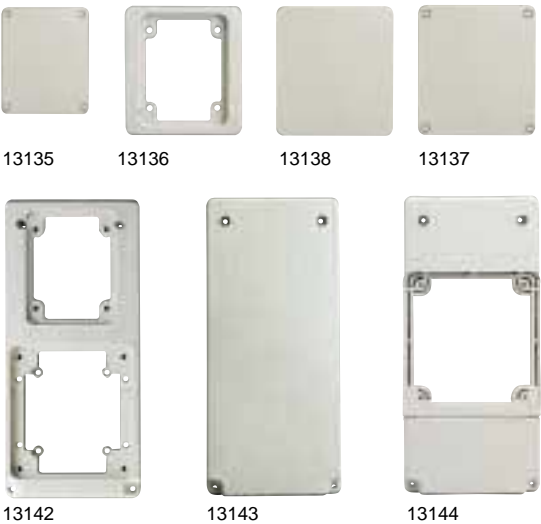
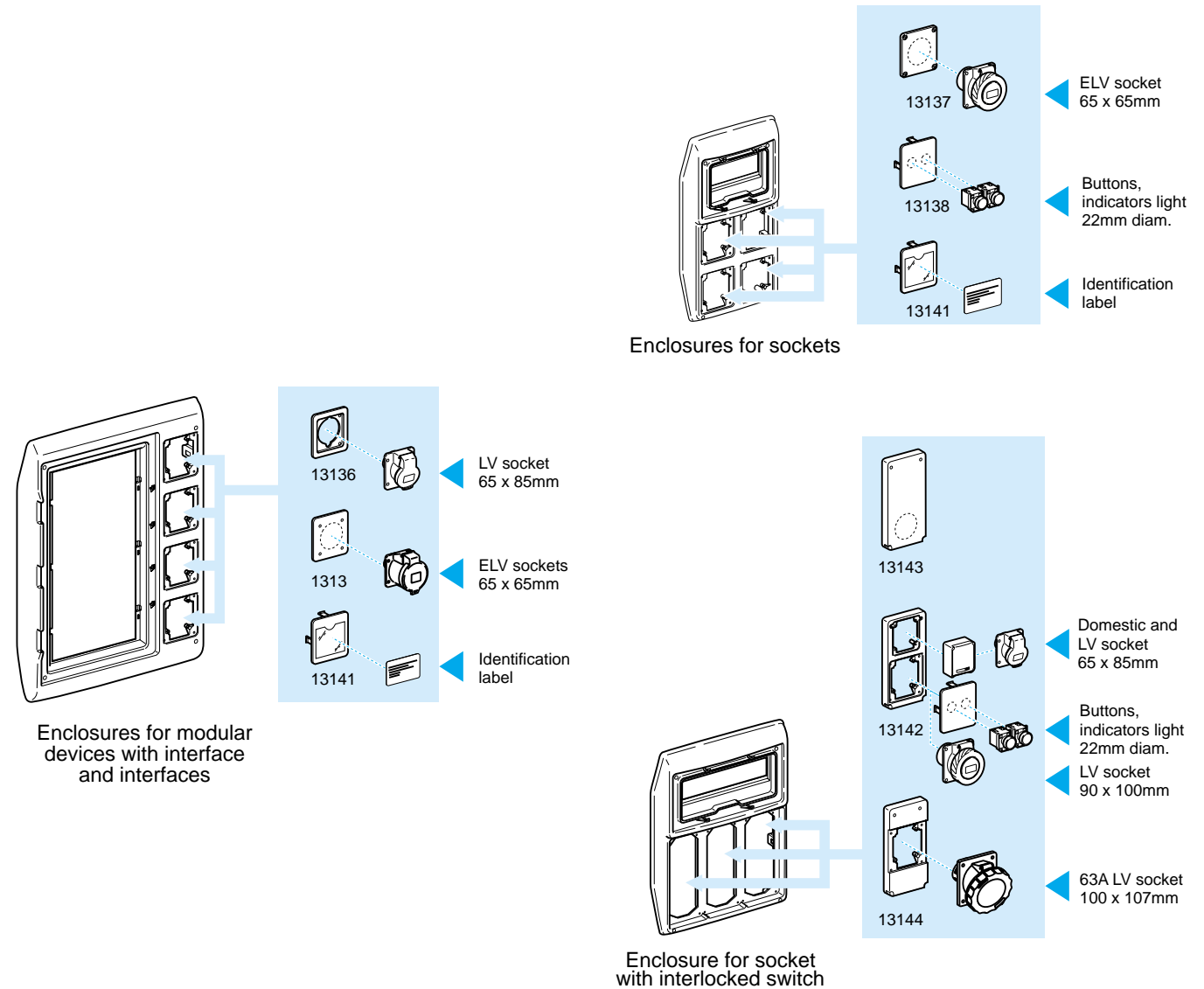
All enclosures for sockets and enclosures for interface have different openings for functional plates. There are three standard dimensions:

- 65 x 85mm, for direct fixing of
 - all PK PratiKa sockets (angled and straight)
 - PK angled sockets of 16A 2P+E and 3P+E.
- 90 x 100mm, for direct fixing of
 - angled PK sockets of 16A 3P+N+E and of 32A.

In the enclosures for sockets, these opening are normally delivered with intermediate plates code 13136.
- 103 x 225mm, for direct fixing of
 - PK Unika sockets with interlocked switch and relative functional plates.



Indirect mounting



Functional plates

Denomination	Description	Code
Plate for opening screw fixing	65 x 85 blank – marked for 1 socket 50 x 50	13135
Plate for opening screw fixing	90 x 100 blank – marked for 1 socket 65 x 65	13137
clip fixing	blank – marked for button (1 or 2 x diam.22,2)	13138
clip fixing	with identification label	13141
clip fixing	intermediate – with opening 65 x 85	13136
interface Kit	90 x 100	
Clip fixing	for switch INS 63/80A	13139
	for modular devices 4P	13140
Plate for opening screw fixing	103 x 225 blank – marked for 1 socket 65 x 65 and for button (1 or 2 x diam.22,2)	13143
	with 1 opening 65 x 85 and 1 opening 90 x 100	13142
	with 1 opening 100 x 107 for socket 63A	13144



Installation accessories

Denomination	Description	Code
Mounting plate for non-modular devices	Telequick – h 150mm width 12 modules	13941
Inclined supports for terminal blocks for Mini-enclosures flat bar 12 x 2 – clip fixing	width 4 mod.	13361
	width 6 mod	13362
	width 8 mod	13363
	width 12 mod	13364
Inclined supports for terminal blocks for enclosures flat bar 12 x 2 – screw fixing	width 8 mod.	13925
	width 12 mod	13597
	width 18 mod	13598
Supports for terminal for enclosures bottom flat bar 12x2 – screw fixing	width 12 mod	13599
	width 18 mod	13595
Terminal blocks 80 A (40°C) to be clipped on the support or on bottom by means of dove tile	with 80mm 4 hole (2 x 10 + 2 x 16)	13575
to be clipped on the support or screw fixed on the bottom	width 85mm 8 hole (4 x 10 + 4 x 16)	13576
	width 202mm 16 hole (8 x 10 + 8 x 16)	13577
	width 202mm 22 hole (11 x 10 + 11 x 16)	13578
	width 202mm 32 hole (16 x + 16 x 16)	13579
Protective cover the cover is clipped on to the terminal block for insulation IP 2X degree of protection colour green	for blocks 4 hole	13581
	8 hole	13582
	12- 22 and 32 hole	13583
colour red	for blocks 4 hole	13588
	8 hole	13584
	12- 22 and 32 hole	13585
colour blue	for blocks 4 hole	13589
	8 hole	13586
	12- 22 and 32 hole	13587
Collar for wiring to organize wiring into the enclosures clip fixed on the bottom on the chassis set of 5		13946
Accessories for enclosure maintenance front plate	12 modules (250 x 150 x 25)	10200
	18 modules (360 x 150 x 25)	10209
chassis 1 row	12 modules (280 x 130 x 35)	10210
	18 modules (390 x 130 x 35)	10220

Enclosure accessories

Denomination	Description	Code
Joining kit M32	2 nipples + 2 nuts	13934
Wall-mounting brackets fixing enclosures to wall	set of 4 for mini-enclosures for sockets	83929
	set of 4 for Kaedra enclosures	13935
Separator set to separate 2 rail DIN zones	for enclosure width 12 modules	13936
	for enclosure width 18 modules	13937
Jack-up block		13938
Sealing kit prevent access to the live parts	by sealing the base with the cover or the panels (4 kits)	13947
Key lock	key	13948
	square	13950
	triangle	13949
Blanking plates	grey RAL7035, set of 10 (5 modules)	13940
Slotted plate	150 x 250mm	13941
Membrane glands	sachet	14190
PG thread cable glands in accordance with DIN 46320 – grey RAL7035 – complete with lock-nut		
	PG9 for cable 7 – 9mm	83991
	PG11 9 – 11mm	83992
	PG13,5 9 – 12mm	83993
	PG16 10 – 13mm	83994
	PG21 14 – 17mm	83995
	PG29 16 – 26mm	83996
	PG36 28 – 36mm	83997
	PG42 30 – 38mm	83998
	PG48 40 – 44mm	83999



Enclosure labelling accessories

Denomination	Description	Code
Symbole plate ordinary	set of 10	13735
special	set of 10	13736
Label support sheet to be printed by Sismarker	set of 10	13260



PK sockets with residual current protection

Wall-mounted

Their technical, functional and aesthetic qualities make them particularly suitable for installations in the tertiary and industry sectors.

Characteristics

- Degree of protection, in accordance with IEC529
 - 16 and 32A IP44 and IP65, 63A IP65
- Degree of protection against external mechanical impacts, according to EN50102
 - enclosure with socket: IK08 enclosure with interlocked socket: IK09
- Resistance to fire and abnormal heat, according to IEC695-2-1: 650°C
- Residual current device to BSEN 61008, 30mA with integral test circuit
- Knockouts in top and bottom of enclosures for cable entry
- Knockouts in sides of enclosures to allow joining together
- Materials: housing in self extinguishing engineering polymer
 - RAL colour 7035
- Units with interlocked switch:
 - switch suitable for class AC22A switching duty
 - switch padlockable in "0" & "1" positions
- Terminal capacities
 - 16A 1 - 4mm²
 - 32A 2.5 - 10mm²
 - 63A 6 - 25mm²

Wall mounted sockets with 30mA RCD protection

IP 44

rated current	poles	rated voltage V		
		100-130V	200-250V	380-415V
16A	2P+E	PKJ16R413	PKJ16R423	
	3P+E			PKJ16R434
	3P+N+E			PKJ16R435
32A	2P+E	PKJ32R413	PKJ32R423	
	3P+E			PKJ32R434
	3P+N+E			PKJ32R435

IP 65

16A	2P+⏏	PKJ16R713	PKJ16R723	
	3P+⏏			PKJ16R734
	3P+N+⏏			PKJ16R735
32A	2P+⏏	PKJ32R713	PKJ32R723	
	3P+⏏			PKJ32R734
	3P+N+⏏			PKJ32R735
63A	2P+⏏		PKJ63R723	
	3P+⏏			PKJ63R734
	3P+N+⏏			PKJ63R735

Wall mounted switch interlocked sockets with 30mA RCD protection

IP 44

rated current	poles	rated voltage V		
		100-130V	200-250V	380-415V
16A	2P+⏏	PKJ16S413	PKJ16S423	
	3P+⏏			PKJ16S434
	3P+N+⏏			PKJ16S435
32A	2P+⏏	PKJ32S413	PKJ32S423	
	3P+⏏			PKJ32S434
	3P+N+⏏			PKJ32S435

IP 65

16A	2P+⏏	PKJ16S713	PKJ16S723	
	3P+⏏			PKJ16S734
	3P+N+⏏			PKJ16S735
32A	2P+⏏	PKJ32S713	PKJ32S723	
	3P+⏏			PKJ32S734
	3P+N+⏏			PKJ32S735

