PK
Industrial
Plugs and Sockets

Catalogue
08

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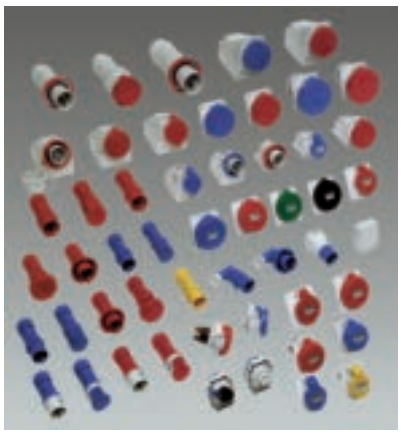
Merlin Gerin

PK industrial plugs and sockets
General index


PB102195


PB102196


PB102197


PB102198

PK plugs and sockets – low voltage

PK plugs and sockets – extra-low voltage

PK sockets with interlock switch

Kaedra system

PK Plugs and Sockets
Low voltage

Index

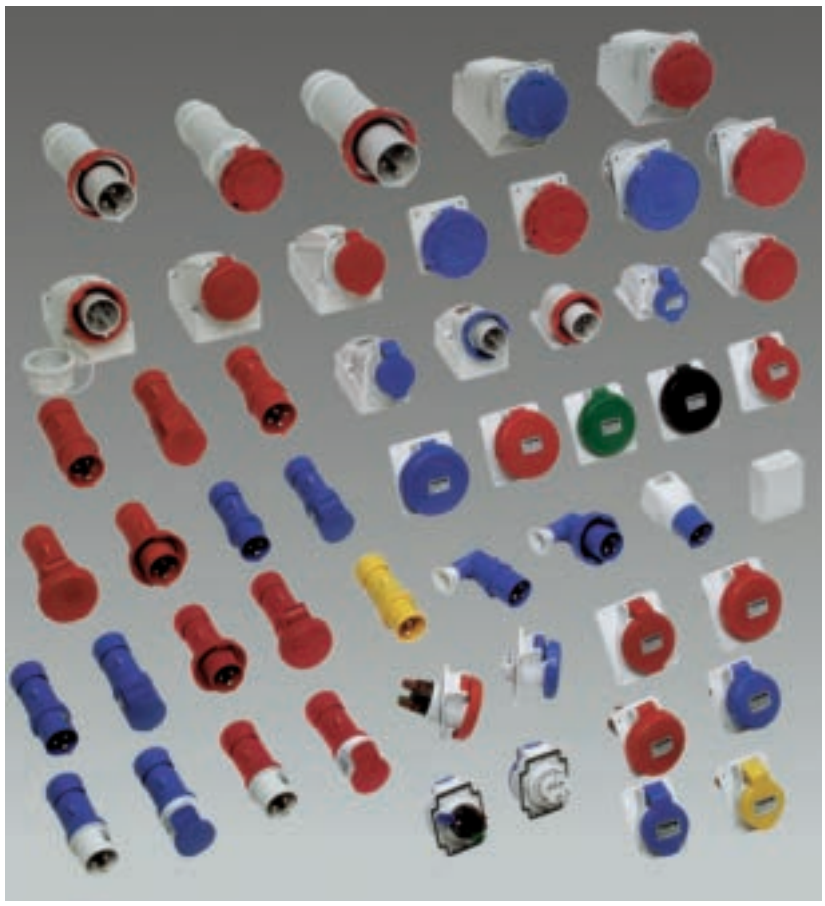
PK Plugs and sockets
Low voltage
General presentation

A complete range of high performance industrial plugs and sockets

The PK range of industrial plugs and sockets is basically designed to suit all needs and all kinds of environments: tertiary sector, industry, building sites, workshops, agricultural sector, as well as indoor and outdoor of any kind of building. These sockets are in conformity with the international IEC60309-1 and IEC60309-2 standards.

This wide range of plugs and sockets, which are solid, well-sealed and also resistant to chemical and atmospheric agents, is the result of Schneider's experience and know-how.

- ❑ Very high performance products
- ❑ Easy installation
- ❑ A complete range


PB102195

PK PratiKa: a world wide patented innovation

This range presents two series, the PK PratiKa **FAST** and PK PratiKa SCREW with innovating solutions in the connection, in the closing and in the cable clamp, for both series.
The FAST patented solution, enables the connection without stripping the conductor and without the use of screws.

These solutions are:
- ❑ fast to connect
- ❑ safe in the use
- ❑ functional and ergonomic
- ❑ easy and intuitive

PK: a complete range of products

PK represents a range of highly functional 16, 32, 63 and 125A low voltage industrial sockets in all the different versions, in conformity with standards.
- ❑ Wander plugs and sockets
- ❑ Wall mounting plugs and sockets
- ❑ Panel mouting plugs and sockets available in different numbers of pole (2P+E 3P+E and 3P+N+E)

PK: domestic sockets

The range of PK domestic sockets has been renewed and new version, with increased characteristics and new Standards, have been created in order to suite most needs in the industrial use:
- ❑ **New** Panel version **IP54** with German and French Standards
- ❑ **New** Panel version **IP65** with German, French, English, Swiss and Italian Standards and the new RJ45 support

PK PratiKa range

The range consists of two series, both with innovating technical solutions:
-PK PratiKa with **FAST** connection
-PK PratiKa with SCREW connection
Both series are available for the 16A and 32A with degree of protection IP44 and IP67, in the wander, panel, wall, versions.

PK PratiKa with FAST connection

The **FAST** connecting system is the most innovating solution of this series which guarantees the connection without stripping the conductor, in total absence of screw. This logo is the guarantee of the new patented connecting system of the **FAST** series. The logo highlights the **FAST** connection which is dedicated to flexible cables. It is to note the new closing system of the body-handgrip and the cable clamp both available on the wander version.

PK PratiKa with SCREW connection

The same orientation of the clamps' screw avoids the rotation of the body in order to screw them. The heads of the screws are protected and surrounded by profile: the blade of the screwdriver cannot run away from the center during the screwing. The connection in the 16A is granted by a single screw while in the 32A by two.
It is to note the new closing system of the body-handgrip and the cable clamp, both available on the wander version.

NEW

PK PratiKa a growing range

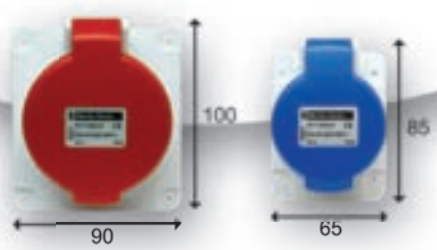
NEW versions have been added to enrich the PratiKa range :
- the Wall Mounted sockets and plugs with the **FAST** and SCREW solution
- the Multiple Way adapters with the LED warning device on each phase
- the System adapters available with new domestic Standards

PK Plugs and sockets
Low voltage
PK PratiKa

PratiKa FAST, the patented solution
The FAST patented solution, enables the connection without stripping the conductor and without the use of any screws. It guarantees a constant and everlasting contact pressure avoiding overheating and the need of re-cabling during maintenance. This solution is dedicated to flexible cables both for the 16A and 32A.

PratiKa SCREW
The SCREW version simplifies the most common cabling solution, having introduced the orientation of the screws which are completely open to speed the cabling.

Wander plugs and sockets
The locking and cable clamp devices grant an easy and safe installation.
The lock is guaranteed by a stainless-steel insert (spring) which gives particular solidity and durability to the union of the two parts. The external cable clamp, with its integrated cable-gland can be easily tightened just with the hands, no tool is needed.
Its conception prevents the accidental loosening due to vibrations or mechanical stresses.



Panel sockets
Both straight and angled versions are flanged as to fit directly in all openings of the enclosures of the series Kaedra:
- 65x85mm for the 16A 2P+E and 3P+E
- 90x100mm for the 16A 3P+N+E and for all versions 32A

PK Plugs and sockets
Low voltage
PK PratiKa

NEW

Wall sockets and plugs IP44

Both solutions **FAST** and Screw are now available for surface applications with the new series of Plugs and sockets Pratika Wall IP44. This range extension confirms the performing characteristics of PK PratiKa offering speed mounting on any surface and safe operations for the installer.

In spite of its small dimensions cabling operations are easy and functional thanks to the possibility to separate the contact holder from the back plate.

Robustness due to rigid cover, stainless steel screws and high level of thermoplastic material permit the use in tertiary, industry and any sector.

NEW

Multiple way adapters

This new product is the first on the market to integrate externally a visible LED, World's unique solution, that highlights when the product is powered. This is very useful for the user who can easily see in distance if the power is ON. This solution is available both for the mono-phase version and three-phase versions; in this case the three LEDs indicate if all phases are connected.

An external hook enables the hanging of the product as to give an additional visibility and avoid treading on of heavy machinery.

Its solid body closed by stainless steel screws assures the maximum mechanical resistance.

NEW

System adapters

New Standards have been added to the range in order to enlarge solutions when the conversion from industrial to domestic outlet is needed. English, French and Swiss standard are now available beside the existing German and Italian versions.

PK Plugs and sockets
Low voltage
PK PratiKa

The world wide innovation

The FAST connection is the great innovation introduced in this range of products and gives great technical and functional advantages to the products as it:
❑ allows the electrical connections without stripping each conductor (standard flexible cables)
❑ guarantees the electrical conductivity and mechanical resistance even if the conductor should be wrongly stripped.

World wide patent

The new range of the PK PratiKa FAST plugs and sockets gives an assembling and cabling real reduction of time of 80% (if compared to the traditional products). Nowadays it is absolutely the fastest on the market. Also the screw version gives a notably time reduction.

NEW

Wall plugs and sockets

Wall installations both for plugs and sockets can now be realised with PratiKa Wall IP44 available with the **FAST** and the Screw solution, 16A and 32A.

FAST SCREW

Easy and safe installation:

❑ Installing operations are simplified thanks to the possibility of having the contact body completely separated from the back plate.

❑ Once fixed the wall back plate and adjusted to a perfect vertical position, by means of the slots, the insertion of the cable is realised through a threaded nut M25. Cable glands are available as alternative accessory.

❑ Conductor cabling operations take the advantage of wide open space internally due to the separate cover. In the **FAST** model time saving for installer is more and more evident not needing any tool to fix conductors and manipulating directly the contact body.

❑ Closing operations become extremely rapid thanks to the rapid threaded screw. The four fixing points of the cover grant an extreme robustness and solidity to the installed product. The cover can be easily removed for checking connections in complete safety during maintenance.

Its compact structure, stainless steel screws and resistance to most aggressive chemical agents make this range suitable for most of the wall application in any sector.

PK Plugs and sockets
Low voltage
PK series

NEW

Panel plugs 63A and 125A

The PK range has been enlarged with this new panel version of 63A and 125A plugs, designed in the IP67 version. The nickel-plated contacts, the stainless steel screws, and the high performing plastic materials, ensure the maximum protection even in very humid and corrosive environments. These products have a pilot contact which can be used as an auxiliary contact to realise an electrical interlock. (with delayed “close” when inserted, “leading-open” when pulled). (See page 19)

NEW

Domestic panel sockets

A new range of domestic sockets IP54 is now available presenting “shutters” (child protection) in all versions; these devices permit to avoid harmful contact with the sleeves in presence of tension. This new series IP54 has two sizes of flanges: 50x50mm for integrators use due to smallest dimension (OEM) and 65x85mm designed for direct mounting on Kaedra enclosures. (colours Blue, Grey, Black). The alternative watertight version sized 65x85 has been improved to IP65 and it’s available with new standards (colours Grey). (See page 36)

Wander, Wall plugs&sockets and panel sockets 63A and 125A

As for the new plugs above mentioned, this range is designed in the IP67 and it’s available in all executions, voltage and polarities. In addition to the nickel-plated contacts and to the auxiliary pilot contact the main feature of the entire range is the mechanical resistance IK10. A high performing thermoplastic material ensures the use in any aggressive environment in presence of oils and chemical agents. (See pages 15, 18, 25, 28, 32, 33.)

90° Wander plugs

This version allows to reduce the bulk of connection between itself and a panel sockets and limits the mechanical stresses upon the cables, due to the absence of curves. (See page 16.)

Phase inverters

Designed to solve quickly and safely the problems concerning electrical connections of all rotary equipment. In fact it is possible to invert the positions of two plugs pins and, hence, the rotary direction of the motor by using a ordinary screwdriver and without unscrewing the plug to change the cable connection. (See page 22.)

Plugs and sockets for container

These are designed to power refrigerated containers in ports, railway stations and container-ships. They have been built to ensure maximum protection and guaranteed functioning also in highly aggressive and corrosive environments. The wander and panel version are available in the PK PratiKa version. (See page 34.)

PK and PK PratiKa Plugs
Low voltage
Selection guide




PK Plugs 16 - 32A
IEC 60309-1 and IEC 60309-2

Rated current A	Poles and wires	Freq. Hz	Rated voltage V	Clock position of contact	Wander plugs FAST connect IP 44	Wander plugs FAST connect IP 67	Wander plugs IP44	Wander plugs IP67	90° wander plugs IP 44	90° wander plugs IP 67	Wall-mounted plugs IP 44	Wall-mounted plugs IP 67
16A	2 P+⏚	50/60	100-130 Vca	4 h	PKX16M413	PKX16M713	PKE16M413	PKE16M713	81701	81751	83501	83551
	3 P+⏚	50/60		4 h	PKX16M414	PKX16M714	PKE16M414	PKE16M714	81702	81752	83502	83552
	3 P+N+⏚	50/60		4 h	PKX16M415	PKX16M715	PKE16M415	PKE16M715	81703	81753	83503	83553
	2 P+⏚	50/60	200-250 Vca	6 h	PKX16M423	PKX16M723	PKE16M423	PKE16M723	81704	81754	83504	83554
	3 P+⏚	50/60		9 h	PKX16M424	PKX16M724	PKE16M424	PKE16M724	81705	81755	83505	83555
	3 P+N+⏚	50/60		9 h	PKX16M425	PKX16M725	PKE16M425	PKE16M725	81706	81756	83506	83556
	2 P+⏚	50/60	380-415 Vca	9 h	PKX16M433	PKX16M733	PKE16M433	PKE16M733	81707	81757	83507	83557
	3 P+⏚	50/60		6 h	PKX16M434	PKX16M734	PKE16M434	PKE16M734	81708	81758	83508	83558
	3 P+N+⏚	50/60		6 h	PKX16M435	PKX16M735	PKE16M435	PKE16M735	81709	81759	83509	83559
	3 P+⏚	50/60	480-500 Vca	7 h	PKX16M444	PKX16M744	PKE16M444	PKE16M744	81711	81761	83511	83561
	3 P+N+⏚	50/60		7 h	PKX16M445	PKX16M745	PKE16M445	PKE16M745	81712	81762	83512	83562
32 A	2 P+⏚	50/60	100-130 Vca	4 h	PKX32M413	PKX32M713	PKE32M413	PKE32M713	81713	81763	83513	83563
	3 P+⏚	50/60		4 h	PKX32M414	PKX32M714	PKE32M414	PKE32M714	81714	81764	83514	83564
	3 P+N+⏚	50/60		4 h	PKX32M415	PKX32M715	PKE32M415	PKE32M715	81715	81765	83515	83565
	2 P+⏚	50/60	200-250 Vca	6 h	PKX32M423	PKX32M723	PKE32M423	PKE32M723	81716	81766	83516	83566
	3 P+⏚	50/60		9 h	PKX32M424	PKX32M724	PKE32M424	PKE32M724	81717	81767	83517	83567
	3 P+N+⏚	50/60		9 h	PKX32M425	PKX32M725	PKE32M425	PKE32M725	81718	81768	83518	83568
	2 P+⏚	50/60	380-415 Vca	9 h	PKX32M433	PKX32M733	PKE32M433	PKE32M733	81719	81769	83519	83569
	3 P+⏚	50/60		6 h	PKX32M434	PKX32M734	PKE32M434	PKE32M734	81720	81770	83520	83570
	3 P+N+⏚	50/60		6 h	PKX32M435	PKX32M735	PKE32M435	PKE32M735	81721	81771	83521	83571
	3 P+⏚	50/60	CONTAINER	3 h		PKX32M7C4		PKE32M7C4		81799		81599
	3 P+⏚	50/60	480-500 Vca	7 h	PKX32M444	PKX32M744	PKE32M444	PKE32M744	81723	81773	83523	83573
	3 P+N+⏚	50/60		7 h	PKX32M445	PKX32M745	PKE32M445	PKE32M745	81724	81774	83524	83574


PK Plugs 63 - 125A
IEC 60309-1 and IEC 60309-2

63 A	3 P+⏚	50/60	100-130 Vca	4 h				81376				81576
	3 P+N+⏚	50/60		4 h				81377				81577
	2 P+⏚	50/60	200-250 Vca	6 h				81378				81578
	3 P+⏚	50/60		9 h				81379				81579
	3 P+N+⏚	50/60		9 h				81380				81580
	3 P+⏚	50/60	380-415 Vca	6 h				81382				81582
	3 P+N+⏚	50/60		6 h				81383				81583
	3 P+⏚	50/60	480-500 Vca	7 h				81385				81585
	3 P+N+⏚	50/60		7 h				81386				81586
125 A	3 P+⏚	50/60	100-130 Vca	4 h				81388				81588
	3 P+N+⏚	50/60		4 h				81389				81589
	2 P+⏚	50/60	200-250 Vca	6 h				81390				81590
	3 P+⏚	50/60		9 h				81391				81591
	3 P+N+⏚	50/60		9 h				81392				81592
	3 P+⏚	50/60	380-415 Vca	6 h				81394				81594
	3 P+N+⏚	50/60		6 h				81395				81595
	3 P+⏚	50/60	480-500 Vca	7 h				81397				81597
	3 P+N+⏚	50/60		7 h				81398				81598

NEW NEW







Wall-mounted plugs FAST connect		Panel-mounted plugs		Phase inverters							
				Wander-plugs		90° Wander plugs		Wall-mounted plugs		Panel-monted plugs	
IP 44	IP 44	IP 44	IP 67	IP 44	IP 67	IP 44	IP 67	IP 44	IP 67	IP 44	IP 67
PKX16W413	PKE16W413	81801	83851								
PKX16W414	PKE16W414	81802	83852	83904	83914	81726	81776	83526	83576	83826	83876
PKX16W415	PKE16W415	81803	83853	83905	83915	81727	81777	83527	83577	83827	83877
PKX16W423	PKE16W423	81804	83854								
PKX16W424	PKE16W424	81805	83855	83901	83911	81728	81778	83528	83578	83828	83878
PKX16W425	PKE16W425	81806	83856	83906	83916	81729	81779	83529	83579	83829	83879
PKX16W433	PKE16W433	81807	83857								
PKX16W434	PKE16W434	81808	83858	83902	83912	81730	81780	83530	83580	83830	83880
PKX16W435	PKE16W435	81809	83859	83903	83913	81731	81781	83531	83581	83831	83881
PKX16W444	PKE16W444	81811	83861	83907	83917	81732	81782	83532	83582	83832	83882
PKX16W445	PKE16W445	81812	83862	83908	83918	81733	81783	83533	83583	83833	83883
PKX32W413	PKE16W413	81813	83863								
PKX32W414	PKE16W414	81814	83864								
PKX32W415	PKE16W415	81815	83865								
PKX32W423	PKE16W423	81816	83866								
PKX32W424	PKE16W424	81817	83867								
PKX32W425	PKE16W425	81818	83868								
		81819	83869								
PKX32W433	PKE32W433	81820	83870								
PKX32W434	PKE32W434	81821	83871								
PKX32W435	PKE32W435		83899								
PKX32W444	PKE32W444	81823	83873								
PKX32W445	PKE32W445	81824	83874								

			81876
			81877
			81878
			81879
			81880
			81882
			81883
			81885
			81886
			81888
			81889
			81890
			81891
			81892
			81894
			81895
			81897
			81898

Learn how to define your PK PratiKa industrial plugs and sockets

PKX 16 M 4 2 3

Versions
PKX = FAST plug
PKY = FAST socket
PKE = SCREWS plug
PKF = SCREWS socket

Current (A)
16
32

Execution
M = Wander
F = Flush angled (panel mounted)
G = Flush straight (panel mounted)
W = Wall mounted

Poles
3 = 2P+ ⏚
4 = 3P+ ⏚
5 = 3P+N+ ⏚

Voltage
1 = 110V
2 = 220V
3 = 380V
4 = 480V
C = for container

Protection
4 = IP44
7 = IP67

PK and PK PratiKa Sockets
Low voltage
Selection guide

PK Sockets 16 - 32A
IEC 60309-1 and IEC 60309-2

Rated current A	Poles and wires	Frequency Hz	Rated voltage V	Clock position of contact	Wander sockets FAST connect IP 44	Wander sockets FAST connect IP 67	Panel mounted sockets angled FAST connect IP44	Panel mounted sockets angled FAST connect IP67	Panel mounted sockets straight FAST connect IP 44	Panel mounted sockets straight FAST connect IP 67
16A	2 P+⏚	50/60	100-130 Vca	4 h	PKY16M413	PKY16M713	PKY16F413	PKY16F713	PKY16G413	PKY16G713
	3 P+⏚	50/60		4 h	PKY16M414	PKY16M714	PKY16F414	PKY16F714	PKY16G414	PKY16G714
	3 P+N+⏚	50/60		4 h	PKY16M415	PKY16M715	PKY16F415	PKY16F715	PKY16G415	PKY16G715
	2 P+⏚	50/60	200-250 Vca	6 h	PKY16M423	PKY16M723	PKY16F423	PKY16F723	PKY16G423	PKY16G723
	3 P+⏚	50/60		9 h	PKY16M424	PKY16M724	PKY16F424	PKY16F724	PKY16G424	PKY16G724
	3 P+N+⏚	50/60		9 h	PKY16M425	PKY16M725	PKY16F425	PKY16F725	PKY16G425	PKY16G725
	2 P+⏚	50/60	380-415 Vca	9 h	PKY16M433	PKY16M733	PKY16F433	PKY16F733	PKY16G433	PKY16G733
	3 P+⏚	50/60		6 h	PKY16M434	PKY16M734	PKY16F434	PKY16F734	PKY16G434	PKY16G734
	3 P+N+⏚	50/60		6 h	PKY16M435	PKY16M735	PKY16F435	PKY16F735	PKY16G435	PKY16G735
	3 P+⏚	50/60	480-500 Vca	7 h	PKY16M444	PKY16M744	PKY16F444	PKY16F744	PKY16G444	PKY16G744
	3 P+N+⏚	50/60		7 h	PKY16M445	PKY16M745	PKY16F445	PKY16F745	PKY16G445	PKY16G745
32 A	2 P+⏚	50/60	100-130 Vca	4 h	PKY32M413	PKY32M713	PKY32F413	PKY32F713	PKY32G413	PKY32G713
	3 P+⏚	50/60		4 h	PKY32M414	PKY32M714	PKY32F414	PKY32F714	PKY32G414	PKY32G714
	3 P+N+⏚	50/60		4 h	PKY32M415	PKY32M715	PKY32F415	PKY32F715	PKY32G415	PKY32G715
	2 P+⏚	50/60	200-250 Vca	6 h	PKY32M423	PKY32M723	PKY32F423	PKY32F723	PKY32G423	PKY32G723
	3 P+⏚	50/60		9 h	PKY32M424	PKY32M724	PKY32F424	PKY32F724	PKY32G424	PKY32G724
	3 P+N+⏚	50/60		9 h	PKY32M425	PKY32M725	PKY32F425	PKY32F725	PKY32G425	PKY32G725
	2 P+⏚	50/60	380-415 Vca	9 h	PKY32M433	PKY32M733	PKY32F433	PKY32F733	PKY32G433	PKY32G733
	3 P+⏚	50/60		6 h	PKY32M434	PKY32M734	PKY32F434	PKY32F734	PKY32G434	PKY32G734
	3 P+N+⏚	50/60		6 h	PKY32M435	PKY32M735	PKY32F435	PKY32F735	PKY32G435	PKY32G735
	3 P+⏚	50/60	CONTAINER	3 h		PKY32M7C4		PKY32F7C4		PKY32G7C4
	3 P+⏚	50/60	480-500 Vca	7 h	PKY32M444	PKY32M744	PKY32F444	PKY32F744	PKY32G444	PKY32G744
	3 P+N+⏚	50/60		7 h	PKY32M445	PKY32M745	PKY32F445	PKY32F745	PKY32G445	PKY32G745

PK Sockets 63 - 125A
IEC 60309-1 and IEC 60309-2

63 A	3 P+⏚	50/60	100-130 Vca	4 h						
	3 P+N+⏚	50/60		4 h						
	2 P+⏚	50/60	200-250 Vca	6 h						
	3 P+⏚	50/60		9 h						
	3 P+N+⏚	50/60		9 h						
	3 P+⏚	50/60	380-415 Vca	6 h						
	3 P+N+⏚	50/60		6 h						
	3 P+⏚	50/60	480-500 Vca	7 h						
	3 P+N+⏚	50/60		7 h						
125 A	3 P+⏚	50/60	100-130 Vca	4 h						
	3 P+N+⏚	50/60		4 h						
	2 P+⏚	50/60	200-250 Vca	6 h						
	3 P+⏚	50/60		9 h						
	3 P+N+⏚	50/60		9 h						
	3 P+⏚	50/60	380-415 Vca	6 h						
	3 P+N+⏚	50/60		6 h						
	3 P+⏚	50/60	480-500 Vca	7 h						
	3 P+N+⏚	50/60		7 h						




NEW

NEW


Wander sockets		Panel mounted sockets				Wall-mounted sockets		Wall-mounted sockets		
		angled		straight		FAST Connection		Small		
IP 44	IP 67	IP 44	IP 67	IP 44	IP 67	IP 44	IP 44	IP 67	IP 44	IP 67
PKF16M413	PKF16M713	PKF16F413	PKF16F713	PKF16G413	PKF16G713	PKY16W413	PKF16W413	PKF16W713	83101	83151
PKF16M414	PKF16M714	PKF16F414	PKF16F714	PKF16G414	PKF16G714	PKY16W414	PKF16W414	PKF16W714	83102	83152
PKF16M415	PKF16M715	PKF16F415	PKF16F715	PKF16G415	PKF16G715	PKY16W415	PKF16W415	PKF16W715	83103	83153
PKF16M423	PKF16M723	PKF16F423	PKF16F723	PKF16G423	PKF16G723	PKY16W423	PKF16W423	PKF16W723	83104	83154
PKF16M424	PKF16M724	PKF16F424	PKF16F724	PKF16G424	PKF16G724	PKY16W424	PKF16W424	PKF16W724	83105	83155
PKF16M425	PKF16M725	PKF16F425	PKF16F725	PKF16G425	PKF16G725	PKY16W425	PKF16W425	PKF16W725	83106	83156
PKF16M433	PKF16M733	PKF16F433	PKF16F733	PKF16G433	PKF16G733	PKY16W433	PKF16W433	PKF16W733	83107	83157
PKF16M434	PKF16M734	PKF16F434	PKF16F734	PKF16G434	PKF16G734	PKY16W434	PKF16W434	PKF16W734	83108	83158
PKF16M435	PKF16M735	PKF16F435	PKF16F735	PKF16G435	PKF16G735	PKY16W435	PKF16W435	PKF16W735	83109	83159
PKF16M444	PKF16M744	PKF16F444	PKF16F744	PKF16G444	PKF16G744	PKY16W444	PKF16W444	PKF16W744	83111	83161
PKF16M445	PKF16M745	PKF16F445	PKF16F745	PKF16G445	PKF16G745	PKY16W445	PKF16W445	PKF16W745	83112	83162
PKF32M413	PKF32M713	PKF32F413	PKF32F713	PKF32G413	PKF32G713	PKY32W413	PKF32W413	PKF32W713	83113	83163
PKF32M414	PKF32M714	PKF32F414	PKF32F714	PKF32G414	PKF32G714	PKY32W414	PKF32W414	PKF32W714	83114	83164
PKF32M415	PKF32M715	PKF32F415	PKF32F715	PKF32G415	PKF32G715	PKY32W415	PKF32W415	PKF32W715	83115	83165
PKF32M423	PKF32M723	PKF32F423	PKF32F723	PKF32G423	PKF32G723	PKY32W423	PKF32W423	PKF32W723	83116	83166
PKF32M424	PKF32M724	PKF32F424	PKF32F724	PKF32G424	PKF32G724	PKY32W424	PKF32W424	PKF32W724	83117	83167
PKF32M425	PKF32M725	PKF32F425	PKF32F725	PKF32G425	PKF32G725	PKY32W425	PKF32W425	PKF32W725	83118	83168
PKF32M433	PKF32M733	PKF32F433	PKF32F733	PKF32G433	PKF32G733	PKY32W433	PKF32W433	PKF32W733	83119	83169
PKF32M434	PKF32M734	PKF32F434	PKF32F734	PKF32G434	PKF32G734	PKY32W434	PKF32W434	PKF32W734	83120	83170
PKF32M435	PKF32M735	PKF32F435	PKF32F735	PKF32G435	PKF32G735	PKY32W435	PKF32W435	PKF32W735	83121	83171
	PKF32M7C4		PKF32F7C4		PKF32G7C4			PKF32W7C4		81199
PKF32M444	PKF32M744	PKF32F444	PKF32F744	PKF32G444	PKF32G744	PKY32W444	PKF32W444	PKF32W744	83123	83173
PKF32M445	PKF32M745	PKF32F445	PKF32F745	PKF32G445	PKF32G745	PKY32W445	PKF32W445	PKF32W745	83124	83174




	81476		81276		81676					81176
	81477		81277		81677					81177
	81478		81278		81678					81178
	81479		81279		81679					81179
	81480		81280		81680					81180
	81482		81282		81682					81182
	81483		81283		81683					81183
	81485		81285		81685					81185
	81486		81286		81686					81186
	81488		81288		81688					81188
	81489		81289		81689					81189
	81490		81290		81690					81190
	81491		81291		81691					81191
	81492		81292		81692					81192
	81494		81294		81694					81194
	81495		81295		81695					81195
	81497		81297		81697					81197
	81498		81298		81698					81198

PK Plugs and sockets
Low voltage
Wander plugs
FAST connection, without screws


PB102216

Functions
Designed to supply fixed or movable equipment by a flexible cable.

Characteristics
- Degree of protection, according to IEC 60529:
  - PK PratiKa: 16 and 32A, IP44 and IP 67;
- Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials:
  - housing made of self-extinguishing engineering polymer
  - pins made of nickel-plated brass
  - springs and pins made of stainless steel
- cable entry:

In	IP 44 / IP 67 fair-lead and cable clamp
16 A	8 - 15 mm
32 A	11,5 - 21 mm

- connection terminals :
  - fast connection without screws and without stripping the conductor
- maximum cross section of conductors:

In	Stranded wire cables / flexible cables (IEC60309-1/A1 and 60309-2/A1)
16 A	1 to 2,5 mm^2
32 A	2,5 to 6 mm^2


PG149061

PKX16M423

PK PratiKa
Code of wander plugs

IP 44

rated current	poles and wired	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	**PKX16M413**	**PKX16M423**	**PKX16M433**	
	3P+⏚	**PKX16M414**	**PKX16M424**	**PKX16M434**	**PKX16M444**
	3P+N+⏚	**PKX16M415**	**PKX16M425**	**PKX16M435**	**PKX16M445**
32A	2P+⏚	**PKX32M413**	**PKX32M423**	**PKX32M433**	
	3P+⏚	**PKX32M414**	**PKX32M424**	**PKX32M434**	**PKX32M444**
	3P+N+⏚	**PKX32M415**	**PKX32M425**	**PKX32M435**	**PKX32M445**


PG149075

PKX16M733

IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	**PKX16M713**	**PKX16M723**	**PKX16M733**	
	3P+⏚	**PKX16M714**	**PKX16M724**	**PKX16M734**	**PKX16M744**
	3P+N+⏚	**PKX16M715**	**PKX16M725**	**PKX16M735**	**PKX16M745**
32A	2P+⏚	**PKX32M713**	**PKX32M723**	**PKX32M733**	
	3P+⏚	**PKX32M714**	**PKX32M724**	**PKX32M734**	**PKX32M744**
	3P+N+⏚	**PKX32M715**	**PKX32M725**	**PKX32M735**	**PKX32M745**

PK Plugs and sockets
Low voltage
Wander plugs
SCREW connection


PB102227

Functions
Designed to supply fixed or movable equipment by a flexible cable.

Characteristics
- ■ Degree of protection, according to IEC 60529:
- ❑ PK PratiKa: 16 and 32A IP44 and IP 67;
  PK: 63 and 125A IP67
- ■ Pilot contact available in the 63A and 125A
- ■ Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- ■ Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- ■ Materials:
- ❑ housing made of self-extinguishing engineering polymer
- ❑ pins made of nickel-plated brass
- ❑ springs and pins made of stainless steel
- ■ cable entry:

In	IP44/IP67 fair-lead and cable clamp	IP67 cable gland
16A	8 – 15 mm	
32A	11,5 – 21 mm	
63A		17 - 31 mm / PG 36
125A		26 - 48 mm / PG 48

- ■ connection terminals:
- ❑ captive screws, completely loosened
- ❑ maximum cross section of conductors:

In	Solid cables / stranded wire cables / flexible cables
16A	1 to 4 mm^2
32A	2,5 to 10 mm^2
63A	6 to 25 mm^2
125A	16 to 70 mm^2


PG149039

PKE16M423

PK PratiKa
Code of wander plugs

IP 44

rated current	poles and wired	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+ ⏚	PKE16M413	PKE16M423	PKE16M433	
	3P+ ⏚	PKE16M414	PKE16M424	PKE16M434	PKE16M444
	3P+N+ ⏚	PKE16M415	PKE16M425	PKE16M435	PKE16M445
32A	2P+ ⏚	PKE32M413	PKE32M423	PKE32M433	
	3P+ ⏚	PKE32M414	PKE32M424	PKE32M434	PKE32M444
	3P+N+ ⏚	PKE32M415	PKE32M425	PKE32M435	PKE32M445


PG149033

PKE16M733

IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+ ⏚	PKE16M713	PKE16M723	PKE16M733	
	3P+ ⏚	PKE16M714	PKE16M724	PKE16M734	PKE16M744
	3P+N+ ⏚	PKE16M715	PKE16M725	PKE16M735	PKE16M745
32A	2P+ ⏚	PKE32M713	PKE32M723	PKE32M733	
	3P+ ⏚	PKE32M714	PKE32M724	PKE32M734	PKE32M744
	3P+N+ ⏚	PKE32M715	PKE32M725	PKE32M735	PKE32M745


PG149011

81395

PK
IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
63A	2P+ ⏚		81378		
	3P+ ⏚	81376	81379	81382	81385
	3P+N+ ⏚	81377	81380	81383	81386
125A	2P+ ⏚		81390		
	3P+ ⏚	81388	81391	81394	81397
	3P+N+ ⏚	81389	81392	81395	81398

PK Plugs and sockets
Low voltage
90° wander plugs


PB102228

Functions
They have the advantage of not being very thick.

Characteristics
- Degree of protection, according to IEC 60529:
  - 16 and 32A IP44 and IP 67
- Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - pins made of nickel-plated brass
  - stainless steel screw
- cable entry:

In	IP 44 / IP 67 fair-lead	IP 67 cable gland
16 A	8 - 15 mm	PG 16 (PG 21 5P)
32 A	11,5 - 21 mm	PG 21

- connection terminals :
  - captive screws, completely loosened
  - maximum cross section of conductors:

In	Solid cables / stranded wire cables / flexible cables
16 A	1 to 4 mm^2
32 A	2,5 to 10 mm^2


PG149017

81704

Code of 90° wander plugs

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	81701	81704	81707	
	3P+⏚	81702	81705	81708	81711
	3P+N+⏚	81703	81706	81709	81712
32A	2P+⏚	81713	81716	81719	
	3P+⏚	81714	81717	81720	81723
	3P+N+⏚	81715	81718	81721	81724


PG149032

81770

IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	81751	81754	81757	
	3P+⏚	81752	81755	81758	81761
	3P+N+⏚	81753	81756	81759	81762
32A	2P+⏚	81763	81766	81769	
	3P+⏚	81764	81767	81770	81773
	3P+N+⏚	81765	81768	81771	81774

PK Plugs and sockets
Low voltage
Wall-mounted plugs

NEW

Functions
They can be installed on an appliance to enable supply by wander socket.

Characteristics
- Degree of protection, according to IEC 60529: IP44
- Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 750°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - pins made of nickel-plated brass
  - stainless steel screws
- cable entry:

In	cable diameter	IP44 cable entry
16A	21,5 mm	M25 threaded nut
32A	21,5 mm	M25 threaded nut

- connection terminals :
  - FAST connection: fast connection without screws and without stripping the conductor
  - SCREW connection: captive screws, completely loosened

NEW

PK PratiKa

In	Stranded wire cables / flexible cables (IEC60309-1/A1 and 60309-2/A1)
16 A	1 to 2,5 mm²
32 A	2,5 to 6 mm²

PKX16W435

Code of wall mounted Plugs PK PratiKa FAST version IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKX16W413	PKX16W423	PKX16W433	
	3P+⏚	PKX16W414	PKX16W424	PKX16W434	PKX16W444
	3P+N+⏚	PKX16W415	PKX16W425	PKX16W435	PKX16W445
32A	2P+⏚	PKX32W413	PKX32W423	PKX32W433	
	3P+⏚	PKX32W414	PKX32W424	PKX32W434	PKX32W444
	3P+N+⏚	PKX32W415	PKX32W425	PKX32W435	PKX32W445

NEW

In	Solid cables / stranded wire cables / flexible cables
16A	1 to 4 mm²
32A	2,5 to 10 mm²

PKE16W435

Code of wall mounted Plugs PK PratiKa SCREW version IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKE16W413	PKE16W423	PKE16W433	
	3P+⏚	PKE16W414	PKE16W424	PKE16W434	PKE16W444
	3P+N+⏚	PKE16W415	PKE16W425	PKE16W435	PKE16W445
32A	2P+⏚	PKE32W413	PKE32W423	PKE32W433	
	3P+⏚	PKE32W414	PKE32W424	PKE32W434	PKE32W444
	3P+N+⏚	PKE32W415	PKE32W425	PKE32W435	PKE32W445

PK Plugs and sockets
Low voltage
Wall-mounted plugs

Functions

They can be installed on an appliance to enable supply by wander socket.

Characteristics

- Degree of protection, according to IEC 60529:
  - 16 and 32A IP44 and IP 67; 63 and 125A IP67
- Pilot contact available in the 63A and 125A
- Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - pins made of nickel-plated brass
  - stainless steel screws
- cable entry:

In	IP44 fair-lead	IP67 cable gland
16A	8 – 15 mm	PG16 (PG21 5P)
32A	11,5 – 21 mm	PG 21
63A		PG 36
125A		PG 48

- connection terminals :
  - captive screws, completely loosened
  - maximum cross section of conductors :

In	Solid and stranded wire flexible cables
16A	1 to 4 mm²
32A	2,5 to 10 mm²
63A	6 to 25 mm²
125A	16 to 70 mm²

Code of wall-mounted plugs

IP 44

83504

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	**83501**	**83504**	**83507**	
	3P+⏚	**83502**	**83505**	**83508**	**83511**
	3P+N+⏚	**83503**	**83506**	**83509**	**83512**
32A	2P+⏚	**83513**	**83516**	**83519**	
	3P+⏚	**83514**	**83517**	**83520**	**83523**
	3P+N+⏚	**83515**	**83518**	**83521**	**83524**

IP 67

83571

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	**83551**	**83554**	**83557**	
	3P+⏚	**83552**	**83555**	**83558**	**83561**
	3P+N+⏚	**83553**	**83556**	**83559**	**83562**
32A	2P+⏚	**83563**	**83566**	**83569**	
	3P+⏚	**83564**	**83567**	**83570**	**83573**
	3P+N+⏚	**83565**	**83568**	**83571**	**83574**
63A	2P+⏚		**81578**		
	3P+⏚	**81576**	**81579**	**81582**	**81585**
	3P+N+⏚	**81577**	**81580**	**81583**	**81586**
125A	2P+⏚		**81590**		
	3P+⏚	**81588**	**81591**	**81594**	**81597**
	3P+N+⏚	**81589**	**81592**	**81595**	**81598**

PK Plugs and sockets
Low voltage
Panel-mounted plugs

NEW

Functions

They can be installed on an appliance to enable supply by wander socket.

Characteristics

- Degree of protection, according to IEC 60529:
  - 63 and 125A IP67
- Pilot contact available in the 63A and 125A
- Degree of protection against external mechanical impacts according to EN50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-11: 850°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - pins made of nickel-plated brass
- connection terminals :
  - maximum cross section of conductors :

In	Solid and stranded wire flexible cables
63A	6 to 25 mm²
125A	16 to 70 mm²

- For a correct use of the IP67-63A, a minimum clearance of 105mm is required for the movement of hinged cover (see details at “Retaining means for IP67 panel mounted plugs” on the dimensions page).

81885

NEW

Code of panel-mounted plugs

IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
63A	2P+⏚		**81878**		
	3P+⏚	**81876**	**81879**	**81882**	**81885**
	3P+N+⏚	**81877**	**81880**	**81883**	**81886**
125A	2P+⏚		**81890**		
	3P+⏚	**81888**	**81891**	**81894**	**81897**
	3P+N+⏚	**81889**	**81892**	**81895**	**81898**

81895

PK Plugs and sockets
Low voltage
Panel-mounted plugs

Functions

They can be installed on an appliance to enable supply by wander socket.

Characteristics

- Degree of protection, according to IEC 60529:
  - 16 and 32A IP44 and IP 67
- Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - pins made of nickel-plated brass
  - stainless steal screws
- connection terminals :
  - captive screws, completely loosened
  - maximum cross section of conductors:

In	Solid and stranded wire flexible cables
16A	1 to 4 mm²
32A	2,5 to 10 mm²

Code of panel-mounted plugs

81804

IP 44

rated current	poles and wires	flange dimensions	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	81801	81804	81807	
	3P+⏚	65 x 85	81802	81805	81808	81811
	3P+N+⏚	90 x 100	81803	81806	81809	81812
32A	2P+⏚	90 x 100	81813	81816	81819	
	3P+⏚	90 x 100	81814	81817	81820	81823
	3P+N+⏚	90 x 100	81815	81818	81821	81824

83871

IP 67

rated current	poles and wires	flange dimensions	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	83851	83854	83857	
	3P+⏚	65 x 85	83852	83855	83858	83861
	3P+N+⏚	90 x 100	83853	83856	83859	83862
32A	2P+⏚	90 x 100	83863	83866	83869	
	3P+⏚	90 x 100	83864	83867	83870	83873
	3P+N+⏚	90 x 100	83865	83868	83871	83874

Caps to cover plugs with IP44 and IP67

83934

IP 67

rated current	poles and wires	Code
16A	2P+⏚	83933
	3P+⏚	83934
	3P+N+⏚	83935
32A	2P+⏚	83936
	3P+⏚	83936
	3P+N+⏚	83937

PK Plugs and sockets
Low voltage
System adapters

NEW

Functions

They enable the conversion of an industrial plug system into a domestic one.
They can be used for temporary situations only and in certain industrial environments where there is no danger of explosions or fire.

Characteristics

- Degree of protection according to IEC 60529: IP20
- Degree of protection against external mechanical impacts, according to EN 50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-11: 850°C (glow wire test)
- Conceived in conformity with EN 50250 and IEC 60309-1 and IEC 60309-2 standards
- Materials :
  - housing made of self-extinguishing engineering polymer
  - pins made of nickel-plated brass
  - stainless steel screw

PKZA201

PKZA202

PKZA203

PKZA204

Code of System Adapters

version	Industrial plug side		Socket side	Code
	Current and Poles	Rated voltage	Number and type	
	16 A 2P + ⏚	200 - 250 V ca	1 socket 10/16A 2P + ⏚ standard Italy	PKZA201
	16 A 2P + ⏚	200 - 250 V ca	2 sockets 10/16A 2P + ⏚ standard Italy	PKZA202
	16 A 2P + ⏚	200 - 250 V ca	1 socket 16A 2P + ⏚ standard Germany	PKZA203
	16 A 2P + ⏚	200 - 250 V ca	1 socket 10/16A 2P + ⏚ standard France	PKZA204

The English, Swiss and Italian (dual - use) Standards are available on demand.

PK Plugs and sockets
Low voltage
Plugs with phase inverter

Solution for rapid inversion of electric motor rotation

The PK plugs with phase inverters provide a safe, rapid solution to electrical connection problems in all rotary machines.
In fact, they permit a rapid inversion of the positions of the two pins and the phase order and, subsequently, the machine rotation direction, without having to open the plug and act on the connections. This is achieved by simply pressing with a screwdriver on the specific area with a 180° rotation of the contact-gate block clockwise or counter-clockwise, until total inversion of the phases is obtained.

The range includes different models:
- ❑ Wander plugs
- ❑ 90° Wander plugs
- ❑ Wall-mounting plugs
- ❑ Panel-mounting plugs


PB102232


PB102231

Caracteristics
- ■ operating frequency: 50 / 60 Hz
- ■ rated current: 16A
- ■ Degree of protection according to IEC 60529: IP 44 and IP 67
- ■ Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- ■ Materials:
  - ❑ housing made of self-extinguishing engineering polymer
  - ❑ pins made of nickel-plated brass
  - ❑ stainless steel screw

In	IP 44 / IP 67 fair-lead	IP 67 cable gland
16 A	8 - 15 mm	PG 16 (PG 21 5P)

- ■ Connection terminal:
  - ❑ Captive screws, completely loosened
  - ❑ Maximum cross section of conductors:

In	Solid and stranded wire flexible cables
16 A	1 to 4 mm^2

PK Plugs and sockets
Low voltage
Plugs with phase inverter


83902


83912

Code

Wander plugs with phase inverter

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	3P+⏚	83904	83901	83902	83907
	3P+N+⏚	83905	83906	83903	83908

IP 67

16A	3P+⏚	83914	83911	83912	83917
	3P+N+⏚	83915	83916	83913	83918


81730


81780

90° wander plugs with phase inverter

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	3P+⏚	81726	81728	81730	81732
	3P+N+⏚	81727	81729	81731	81733

IP 67

16A	3P+⏚	81776	81778	81780	81782
	3P+N+⏚	81777	81779	81781	81783


83581

Wall-mounted plugs with phase inverter

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	3P+⏚	83526	83528	83530	83532
	3P+N+⏚	83527	83529	83531	83533

IP 67

16A	3P+⏚	83576	83578	83580	83582
	3P+N+⏚	83577	83579	83581	83583


83880

Panel-mounted plugs with phase inverter

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	3P+⏚	83826	83828	83830	83832
	3P+N+⏚	83827	83829	83831	83833

IP 67

16A	3P+⏚	83876	83878	83880	83882
	3P+N+⏚	83877	83879	83881	83883


83934

Caps to cover plugs with IP 44 an IP67

IP 67

rated current	poles and wires	Code
16A	3P+⏚	83934
	3P+N+⏚	83935

PK Plugs and sockets
Low voltage
Wander sockets
FAST connection, without screws

Functions
Designed to supply fixed or movable equipment by a flexible cable.

Characteristics
- Degree of protection, according to IEC 60529:
  - PK PratiKa: 16 and 32A IP44 and IP 67;
- Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials:
  - housing made of self-extinguishing engineering polymer
  - sleevs made of brass
  - springs and pins made of stainless steel
- cable entry:

In	IP 44 / IP 67 fair-lead and cable clamp
16 A	8 - 15 mm
32 A	11,5 - 21 mm

- connection terminals :
  - fast connection without screws and without stripping the conductor
  - maximum cross section of conductors:

In	Stranded wire cables / flexible cables (IEC60309-1/A1 and 60309-2/A1)
16 A	1 to 2,5 mm^2
32 A	2,5 to 6 mm^2

PKY16M423

PKY16M733

PK PratiKa
Code of wander socket

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKY16M413	PKY16M423	PKY16M433	
	3P+⏚	PKY16M414	PKY16M424	PKY16M434	PKY16M444
	3P+N+⏚	PKY16M415	PKY16M425	PKY16M435	PKY16M445
32A	2P+⏚	PKY32M413	PKY32M423	PKY32M433	
	3P+⏚	PKY32M414	PKY32M424	PKY32M434	PKY32M444
	3P+N+⏚	PKY32M415	PKY32M425	PKY32M435	PKY32M445

IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKY16M713	PKY16M723	PKY16M733	
	3P+⏚	PKY16M714	PKY16M724	PKY16M734	PKY16M744
	3P+N+⏚	PKY16M715	PKY16M725	PKY16M735	PKY16M745
32A	2P+⏚	PKY32M713	PKY32M723	PKY32M733	
	3P+⏚	PKY32M714	PKY32M724	PKY32M734	PKY32M744
	3P+N+⏚	PKY32M715	PKY32M725	PKY32M735	PKY32M745

PK Plugs and sockets
Low voltage
Wander sockets
SCREW connection


PB102234

Functions
Designed to supply fixed or movable equipment by a flexible cable.

Characteristics
- Degree of protection, according to IEC 60529:
  - PK PratiKa: 16 and 32A IP44 and IP 67;
    PK: 63 and 125A IP67
- Pilot contact available in the 63A and 125A
- Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials:
  - housing made of self-extinguishing engineering polymer
  - sleeves made of brass for PK PratiKa series
  - sleeves made of nickel-plated brass for PK series
  - pins and springs made of stainless steel
- cable entry:

In	IP44/IP67 fair-lead and cable clamp	IP67 cable gland
16A	8 – 15 mm	
32A	11,5 – 21 mm	
63A		17 - 31 mm / PG 36
125A		26 - 48 mm / PG 48

- connection terminals:
  - captive screws, completely loosened
  - maximum cross section of conductors:

In	Solid cables / stranded wire cables / flexible cables
16A	1 to 4 mm²
32A	2,5 to 10 mm²
63A	6 to 25 mm²
125A	16 to 70 mm²


PG1491126

PKF16M423

PK PratiKa
Code of wander sockets

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKF16M413	PKF16M423	PKF16M433	
	3P+⏚	PKF16M414	PKF16M424	PKF16M434	PKF16M444
	3P+N+⏚	PKF16M415	PKF16M425	PKF16M435	PKF16M445
32A	2P+⏚	PKF32M413	PKF32M423	PKF32M433	
	3P+⏚	PKF32M414	PKF32M424	PKF32M434	PKF32M444
	3P+N+⏚	PKF32M415	PKF32M425	PKF32M435	PKF32M445


PG1491131

PKF16M733

IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKF16M713	PKF16M723	PKF16M733	
	3P+⏚	PKF16M714	PKF16M724	PKF16M734	PKF16M744
	3P+N+⏚	PKF16M715	PKF16M725	PKF16M735	PKF16M745
32A	2P+⏚	PKF32M713	PKF32M723	PKF32M733	
	3P+⏚	PKF32M714	PKF32M724	PKF32M734	PKF32M744
	3P+N+⏚	PKF32M715	PKF32M725	PKF32M735	PKF32M745

PK

IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
63A	2P+⏚		81478		
	3P+⏚	81476	81479	81482	81485
	3P+N+⏚	81477	81480	81483	81486
125A	2P+⏚		81490		
	3P+⏚	81488	81491	81494	81497
	3P+N+⏚	81489	81492	81495	81498


PG1491117

81495

PK Plugs and sockets
Low voltage
Wall-mounted sockets
FAST connection, without screws

NEW

PB102305

Functions

They can be wall-mounted to supply appliances with wander plugs.
They are very compact in dimensions.

Characteristics

- Degree of protection, according to IEC 60529:IP44
- Degree of protection against external mechanical impacts, according to EN 50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 750°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - sleeves made of brass
  - screws, pins and springs made of stainless steel
- cable entry:

In	Cable diameter	IP44 cable entry
16A	max 21,0 mm	M25 threaded nut
32A	max 21,0 mm	M25 threaded nut

- connection terminals :
  - fast connection without screws and without stripping the conductor
  - maximum cross section of conductors:

In	Stranded wire cables / flexible cables (IEC60309-1/A1 and 60309-2/A1)
16 A	1 to 2,5 mm^2
32 A	2,5 to 6 mm^2

PB102306

PKY32W435

NEW

PK PratiKa

Code of wall mounted Sockets PK PratiKa FAST version IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKY16W413	PKY16W423	PKY16W433	
	3P+⏚	PKY16W414	PKY16W424	PKY16W434	PKY16W444
	3P+N+⏚	PKY16W415	PKY16W425	PKY16W435	PKY16W445
32A	2P+⏚	PKY32W413	PKY32W423	PKY32W433	
	3P+⏚	PKY32W414	PKY32W424	PKY32W434	PKY32W444
	3P+N+⏚	PKY32W415	PKY32W425	PKY32W435	PKY32W445

PK Plugs and sockets
Low voltage
Wall-mounted sockets
SCREW connection

NEW

Functions
They can be wall-mounted to supply appliances with wander plugs.
They are very compact in dimensions.

Characteristics
- Degree of protection, according to IEC 60529:IP44 and IP67
- Degree of protection against external mechanical impacts, according to EN 50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 750°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - sleeves made of brass
  - screws, pins and springs made of stainless steel
- cable entry:

In	cable diameter	IP44/IP67 cable entry
16A	max 21,0 mm	M25 threaded nut+cable gland
32A	max 21,0 mm	M25 threaded nut+cable gland

- connection terminals :
  - captive screws, completely loosened
  - maximum cross section of conductors:

In	Solid cables / stranded wire cables / flexible cables
16A	1 to 4 mm²
32A	2,5 to 10 mm²

PKF16W434

NEW

Code of wall mounted Sockets PK PratiKa SCREW version IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKF16W413	PKF16W423	PKF16W433	
	3P+⏚	PKF16W414	PKF16W424	PKF16W434	PKF16W444
	3P+N+⏚	PKF16W415	PKF16W425	PKF16W435	PKF16W445
32A	2P+⏚	PKF32W413	PKF32W423	PKF32W433	
	3P+⏚	PKF32W414	PKF32W424	PKF32W434	PKF32W444
	3P+N+⏚	PKF32W415	PKF32W425	PKF32W435	PKF32W445

PKF32W734

NEW

Code of wall mounted Sockets PK PratiKa SMALL - SCREW version IP 67

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	PKF16W713	PKF16W723	PKF16W733	
	3P+⏚	PKF16W714	PKF16W724	PKF16W734	PKF16W744
	3P+N+⏚	PKF16W715	PKF16W725	PKF16W735	PKF16W745
32A	2P+⏚	PKF32W713	PKF32W723	PKF32W733	
	3P+⏚	PKF32W714	PKF32W724	PKF32W734	PKF32W744
	3P+N+⏚	PKF32W715	PKF32W725	PKF32W735	PKF32W745

PK Plugs and sockets
Low voltage
Wall-mounted sockets


PB102236

Functions
They can be wall-mounted to supply appliances with wander plugs.

Characteristics
- Degree of protection, according to IEC 60529:
  - 16 and 32A IP44 and IP 67; 63 and 125A IP67
- Pilot contact available in the 63A and 125A
- Degree of protection against external mechanical impacts, according to EN 50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - sleeves made of nickel-plated brass
  - screws, pins and springs made of stainless steel
- cable entry:

In	IP44/IP67 fair-lead	IP67 cable gland
16A	8 – 15 mm	PG16 (PG21 5P)
32A	11,5 – 21 mm	PG 21
63A		PG 36
125A		PG 48

- connection terminals :
  - captive screws, completely loosened
  - maximum cross section of conductors:

In	Solid and stranded wire flexible cables
16A	1 to 4 mm²
32A	2,5 to 10 mm²
63A	6 to 25 mm²
125A	16 to 70 mm²


PG149166

83104

Code of wall-mounted sockets

IP 44

rates current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	83101	83104	83107	
	3P+⏚	83102	83105	83108	83111
	3P+N+⏚	83103	83106	83109	83112
32A	2P+⏚	83113	83116	83119	
	3P+⏚	83114	83117	83120	83123
	3P+N+⏚	83115	83118	83121	83124


PG149171

83171


PG149143

81195

IP 67

rates current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	83151	83154	83157	
	3P+⏚	83152	83155	83158	83161
	3P+N+⏚	83153	83156	83159	83162
32A	2P+⏚	83163	83166	83169	
	3P+⏚	83164	83167	83170	83173
	3P+N+⏚	83165	83168	83171	83174
63A	2P+⏚		81178		
	3P+⏚	81176	81179	81182	81185
	3P+N+⏚	81177	81180	81183	81186
125A	2P+⏚		81190		
	3P+⏚	81188	81191	81194	81197
	3P+N+⏚	81189	81192	81195	81198

PK Plugs and sockets
Low voltage
Multiple adapters

NEW

Functions

They can be used for temporary situations only and in certain industrial environments where there is no danger of explosions or fire.

Characteristics

- LEDs when lighted show the presence of Voltage in each plug's phases; it is not a protection. If it should be off, control the switch-board before usage or maintenance.
- Degree of protection according to IEC 60529: IP44 and IP67
- Degree of protection against external mechanical impacts, according to EN 50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-11: 850°C (glow wire test)
- Conceived in conformity with IEC 60309-1 and IEC 60309-2
- Materials :
  - housing made of self-extinguishing engineering polymer
  - pins made of nickel-plated brass
  - sleeves made of brass
  - stainless steel screw

NEW

Code of multiple adapter - 2 Socket-outlets

PKZM403

IP44

Plug side			Socket side				
current	poles	voltage	No.	current	poles	voltage	
16A	2P+⏚	100-130V	2	16A	2P+⏚	100-130V	PKZM401
	2P+⏚	200-250V	2	16A	2P+⏚	200-250V	PKZM403
	2P+⏚	380-415V	2	16A	2P+⏚	380-415V	PKZM405
	3P+⏚		2	16A	3P+⏚		PKZM406

IP67

Plug side			Socket side				
current	poles	voltage	No.	current	poles	voltage	
16A	2P+⏚	100-130V	2	16A	2P+⏚	100-130V	PKZM701
	2P+⏚	200-250V	2	16A	2P+⏚	200-250V	PKZM703
	2P+⏚	380-415V	2	16A	2P+⏚	380-415V	PKZM705
	3P+⏚		2	16A	3P+⏚		PKZM706

NEW

Code of multiple adapter - 3 Socket-outlets

PKZM712

IP44

Plug side			Socket side				
current	poles	voltage	No.	current	poles	voltage	
16A	2P+⏚	100-130V	3	16A	2P+⏚	100-130V	PKZM407
	2P+⏚	200-250V	3	16A	2P+⏚	200-250V	PKZM409
	3P+⏚	380-415V	3	16A	3P+⏚	380-415V	PKZM412
32A	3P+N+⏚	380-415V	2	16A	2P+⏚	200-250V	PKZM413
			1	32A	3P+N+⏚	380-415V	

IP67

Plug side			Socket side				
current	poles	voltage	No.	current	poles	voltage	
16A	2P+⏚	100-130V	3	16A	2P+⏚	100-130V	PKZM707
	2P+⏚	200-250V	3	16A	2P+⏚	200-250V	PKZM709
	3P+⏚	380-415V	3	16A	2P+⏚	380-415V	PKZM712
32A	3P+N+⏚	380-415V	2	16A	3P+⏚	200-250V	PKZM713
			1	32A	3P+N+⏚	380-415V	

PK Plugs and sockets
Low voltage
Panel-mounted angled sockets
FAST connection, without screws

Functions
They can be mounted on a plate, panel or machine to supply appliance with wander plugs.

Characteristics
- Degree of protection, according to IEC 60529:
  - 16 and 32A IP44 and IP 67;
- Degree of protection against external mechanical impacts, according to EN 50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials:
  - housing made of self-extinguishing engineering polymer
  - sleeves made of brass
  - pins and springs made of stainless steel
- connection terminals:
  - fast connection without screws and without stripping the conductor
- maximum cross section of conductors:

In	Stranded wire cables / flexible cables (IEC60309-1/A1 and 60309-2/A1)		
16A	1	to	2,5 mm²
32A	2,5	to	6 mm²

PKY16F423

PK PratiKa
Code of panel-mounted angled sockets

IP 44

rated current	poles and wires	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	PKY16F413	PKY16F423	PKY16F433	
	3P+⏚	65 x 85	PKY16F414	PKY16F424	PKY16F434	PKY16F444
	3P+N+⏚	90 x 100	PKY16F415	PKY16F425	PKY16F435	PKY16F445
32A	2P+⏚	90 x 100	PKY32F413	PKY32F423	PKY32F433	
	3P+⏚	90 x 100	PKY32F414	PKY32F424	PKY32F434	PKY32F444
	3P+N+⏚	90 x 100	PKY32F415	PKY32F425	PKY32F435	PKY32F445

PKY32F734

IP 67

rated current	poles and wires	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	PKY16F713	PKY16F723	PKY16F733	
	3P+⏚	65 x 85	PKY16F714	PKY16F724	PKY16F734	PKY16F744
	3P+N+⏚	90 x 100	PKY16F715	PKY16F725	PKY16F735	PKY16F745
32A	2P+⏚	90 x 100	PKY32F713	PKY32F723	PKY32F733	
	3P+⏚	90 x 100	PKY32F714	PKY32F724	PKY32F734	PKY32F744
	3P+N+⏚	90 x 100	PKY32F715	PKY32F725	PKY32F735	PKY32F745

PK Plugs and sockets
Low voltage
Panel-mounted straight sockets
FAST connection, without screws

Functions
They can be mounted on a plate, panel or machine to supply appliance with wander plugs.

Characteristics
- Degree of protection, according to IEC 60529:
  - 16 and 32A IP44 and IP 67;
- Degree of protection against external mechanical impacts, according to EN 50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials:
  - housing made of self-extinguishing engineering polymer
  - sleeves made of brass
  - pins and springs made of stainless steel
- connection terminals:
  - fast connection without screws and without stripping the conductor
- maximum cross section of conductors:

In	Stranded wire cables / flexible cables (IEC60309-1/A1 and 60309-2/A1)
16A	1 to 2,5 mm²
32A	2,5 to 6 mm²

PKY16G423

PK PratiKa
Code of panel-mounted straight sockets

IP 44

rated current	poles and wired	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	PKY16G413	PKY16G423	PKY16G433	
	3P+⏚	65 x 85	PKY16G414	PKY16G424	PKY16G434	PKY16G444
	3P+N+⏚	90 x 100	PKY16G415	PKY16G425	PKY16G435	PKY16G445
32A	2P+⏚	90 x 100	PKY32G413	PKY32G423	PKY32G433	
	3P+⏚	90 x 100	PKY32G414	PKY32G424	PKY32G434	PKY32G444
	3P+N+⏚	90 x 100	PKY32G415	PKY32G425	PKY32G435	PKY32G445

PKY32G734

IP 67

rated current	poles and wires	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	PKY16G713	PKY16G723	PKY16G733	
	3P+⏚	65 x 85	PKY16G714	PKY16G724	PKY16G734	PKY16G744
	3P+N+⏚	90 x 100	PKY16G715	PKY16G725	PKY16G735	PKY16G745
32A	2P+⏚	90 x 100	PKY32G713	PKY32G723	PKY32G733	
	3P+⏚	90 x 100	PKY32G714	PKY32G724	PKY32G734	PKY32G744
	3P+N+⏚	90 x 100	PKY32G715	PKY32G725	PKY32G735	PKY32G745

PK Plugs and sockets
Low voltage
Panel-mounted angled sockets
SCREW connection


PB102237

Functions
They can be mounted on a plate, panel or machine to feed appliances with wander plugs.

Characteristics
- ■ Degree of protection, according to IEC 60529:
- ❑ PK PratiKa: 16 and 32A IP44 and IP 67;
  PK: 63 and 125A IP67
- ■ Pilot contact available in the 63A and 125A
- ■ Degree of protection against external mechanical impacts, according to EN 50102: IK08
- ■ Resistance to fire and abnormal heat, according to IEC/EN 60695-2-1: 850°C (glow wire test)
- ■ Materials:
- ❑ housing made of self-extinguishing engineering polymer
- ❑ sleeves made of brass for PK PratiKa series
- ❑ sleeves made of nickel-plated brass for PK series
- ❑ pins and springs made of stainless steel
- ■ connection terminals:
- ❑ captive screws, completely loosened
- ❑ maximum cross section of conductors:

In	Solid cables / stranded wire cables / flexible cables
16A	1 to 4 mm²
32A	2,5 to 10 mm²
63A	6 to 25 mm²
125A	16 to 70 mm²

PK PratiKa
Code of panel-mounted angled sockets


PG149174

PKF16F423

IP 44

rated current	poles and wires	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	PKF16F413	PKF16F423	PKF16F433	
	3P+⏚	65 x 85	PKF16F414	PKF16F424	PKF16F434	PKF16F444
	3P+N+⏚	90 x 100	PKF16F415	PKF16F425	PKF16F435	PKF16F445
32A	2P+⏚	90 x 100	PKF32F413	PKF32F423	PKF32F433	
	3P+⏚	90 x 100	PKF32F414	PKF32F424	PKF32F434	PKF32F444
	3P+N+⏚	90 x 100	PKF32F415	PKF32F425	PKF32F435	PKF32F445


PG149179

PKF32F734

IP 67

rated current	poles and wires	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	PKF16F713	PKF16F723	PKF16F733	
	3P+⏚	65 x 85	PKF16F714	PKF16F724	PKF16F734	PKF16F744
	3P+N+⏚	90 x 100	PKF16F715	PKF16F725	PKF16F735	PKF16F745
32A	2P+⏚	90 x 100	PKF32F713	PKF32F723	PKF32F733	
	3P+⏚	90 x 100	PKF32F714	PKF32F724	PKF32F734	PKF32F744
	3P+N+⏚	90 x 100	PKF32F715	PKF32F725	PKF32F735	PKF32F745

PK
IP 67

rated current	poles and wires	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
63A	2P+⏚	100 x 107		81278		
	3P+⏚	100 x 107	81276	81279	81282	81285
	3P+N+⏚	100 x 107	81277	81280	81283	81286
125A	2P+⏚	110 x 114		81290		
	3P+⏚	110 x 114	81288	81291	81294	81297
	3P+N+⏚	110 x 114	81289	81292	81295	81298


PG149183

81283

PK Plugs and sockets
Low voltage
Panel-mounted straight sockets
SCREW connection

Functions
They can be mounted on a plate, panel or machine to feed appliances with wander plugs.

Characteristics
- ■ Degree of protection, according to IEC 60529:
- ❑ PK PratiKa: 16 and 32A IP44 and IP 67; PK: 63 and 125A IP67
- ■ Pilot contact available in the 63A and 125A
- ■ Degree of protection against external mechanical impacts, according to EN 50102: IK08
- ■ Resistance to fire and abnormal heat, according to IEC/EN 60695-2-1: 850°C (glow wire test)
- ■ Materials:
- ❑ housing made of self-extinguishing engineering polymer
- ❑ sleeves made of nickel-plated brass for PK series
- ❑ pins and springs made of stainless steel
- ■ connection terminals:
- ❑ captive screws, completely loosened
- ❑ maximum cross section of conductors:

In	Solid cables / stranded wire cables / flexible cables
16A	1 to 4 mm²
32A	2,5 to 10 mm²
63A	6 to 25 mm²
125A	16 to 70 m²

PK PratiKa
Code of panel-mounted straight sockets

PKF16G423

IP 44

rated current	poles and wires	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	PKF16G413	PKF16G423	PKF16G433	
	3P+⏚	65 x 85	PKF16G414	PKF16G424	PKF16G434	PKF16G444
	3P+N+⏚	90 x 100	PKF16G415	PKF16G425	PKF16G435	PKF16G445
32A	2P+⏚	90 x 100	PKF32G413	PKF32G423	PKF32G433	
	3P+⏚	90 x 100	PKF32G414	PKF32G424	PKF32G434	PKF32G444
	3P+N+⏚	90 x 100	PKF32G415	PKF32G425	PKF32G435	PKF32G445

PKF32G734

IP 67

rated current	poles and wired	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	65 x 85	PKF16G713	PKF16G723	PKF16G733	
	3P+⏚	65 x 85	PKF16G714	PKF16G724	PKF16G734	PKF16G744
	3P+N+⏚	90 x 100	PKF16G715	PKF16G725	PKF16G735	PKF16G745
32A	2P+⏚	90 x 100	PKF32G713	PKF32G723	PKF32G733	
	3P+⏚	90 x 100	PKF32G714	PKF32G724	PKF32G734	PKF32G744
	3P+N+⏚	90 x 100	PKF32G715	PKF32G725	PKF32G735	PKF32G745

PK
IP 67

81683

rated current	poles and wires	flange dim.	rated voltage 100-130V	200-250V	380-415V	480-500V
63A	2P+⏚	100 x 107		81678		
	3P+⏚	100 x 107	81676	81679	81682	81685
	3P+N+⏚	100 x 107	81677	81680	81683	81686
125A	2P+⏚	110 x 114		81690		
	3P+⏚	110 x 114	81688	81691	81694	81697
	3P+N+⏚	110 x 114	81689	81692	81695	81698

PK Plugs and sockets
Low voltage
Back box wall-mounted
for PK panel plugs and sockets


PB102314

Functions
They can be wall-mounted to supply appliances with wander plugs.
The back box permit the use of MG panel sockets PK PratiKa, both screw and fast version, to create a wall installation with horizontal outlet.

Characteristics
- Degree of protection, according to IEC 60529: IP44 and IP67
- Degree of protection against external mechanical impacts, according to EN 50 102 :IK09
- Resistance to fire and abnormal heat, according to IEC 695-2-1: 850°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - screws, made of stainless steel
- cable entry:

In	cable diameter	IP44/IP67 cable entry
16A	max 21,0 mm	M25
32A	max 21,0 mm	M25

Possibility to make in/out in the bottom part of the box (position for drilling M20, M25 or M32).
Threaded caps M25 supplied with gasket IP67


PB102315

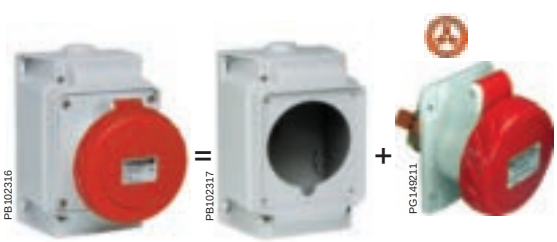
PKZ100 PKZ085

Code of Back box wall mounted for fitting PK PratiKa panel sockets

IP44 / IP67

Description poles and	Code
Small sized BOX	
Permits the mounting of socket (16A 3 or 4 poles) with flange 65x85	PKZ085
Big sized BOX	
Permits the mounting of socket (16A 5 poles and 32A 3 or 4 or 5 poles) with flange 90x100	PKZ100

Description poles and	Code
M25 cable gland	PKZ025
M32 cable gland	PKZ032



PB102316 PB102317 PG149211

PKZ100 PKY32G734

PK Plugs and sockets
Low voltage
Plugs and sockets for container

The solution for safe connections worldwide

The PK plugs and sockets for containers are designed to power refrigerated containers in ports, railway stations, airports, as well as on board container-ships.
The IP67 protection, use of nickel-plated contacts, stainless steel screws, pins and springs and high performance plastic materials, combine in ensuring maximum protection and guaranteed functioning also in highly aggressive and corrosive environments.
In accordance with standards, these plugs and sockets are available in the following versions:

- ❑ 32A - 3P+E
- ❑ voltage rating 400-440V
- ❑ clock-position 3 hours
- ❑ degree of protection IP67

Functions

They are designed for supplying low-voltage power to loades or equipment fitted with domestic or similar plugs.

- ■ PK PratiKa wander plugs
- ■ PK 90° wander plugs
- ■ PK wall mounted plugs
- ■ PK panel-mounted plugs
- ■ PK PratiKa wander sockets
- ■ PK small wall-mounted sockets
- ■ PK wall-mounted sockets
- ■ PK PratiKa panel-mounted angled sockets
- ■ PK PratiKa panel-mounted straight sockets
- ■ interlocked sockets PK Unika
- ■ interlocked sockets PK Unika with fuse protection
- ■ interlocked sockets PK Isoblock with DIN rail.

Characteristics

- ■ Degree of protection according to IEC 60529:
  - ❑ 32A IP 67 (IP65 for interlocked sockets)
- ■ Degree de protection against external mechanical impacts according to EN 50102:
  - ❑ IK08 for plugs and sockets (IK09 for interlocked sockets)
- ■ Resistance to fire and abnormal heat, according to: IEC 60695-2-1: 850°C (750°C for PK Unika)
- ■ Materials
  - ❑ Housing made of solfe extenguishing polymer
  - ❑ Pins made of nickel-plated brass
  - ❑ Stainless steel screw
  - ❑ springs and pins made of stainless steal
- ■ Cable entry

In	IP67 cable gland	IP67 cable clamp
32A	PG21 PK	11,5 - 21 mm PK PratiKa

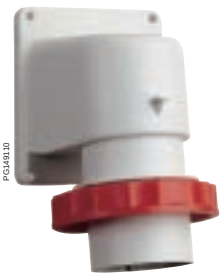
- ■ Connection terminal:
  - ❑ Captive screws, completely loosened
  - ❑ Maximum cross section of conductors:

In	Stranded wire flexible cables		
32A	flexible	2,5 to 10 mm²	panel and wall version
	flexible	2,5 to 6 mm²	wander versions
	flexible/rigid/stranded	2,5 to 10 mm²	interlocked versions

PK Plugs and sockets
Low voltage
Plugs and sockets for containers

PKX32M7C4

81799



83899

PKY32M7C4

81199

PKY32F7C4

PKY32G7C4

83399

83799

Code

rated current	Poles	Clock position	Rated voltage	Freq. Hz	Code
Wander plugs IP 67					
32A PK PratiKa FAST	3P+⏚	3 h	**400-440 V**	50-60	**PKX32M7C4**
PK PratiKa Screw	3P+⏚	3 h	**400-440 V**	50-60	**PKE32M7C4**
90° wander plugs IP 67					
32A	3P+⏚	3 h	**400-440 V**	50-60	**81799**
Wall mounted plugs IP 67					
32A	3P+⏚	3 h	**400-440 V**	50-60	**81599**
Panel-mounted plugs IP 67					
32A	3P+⏚	3 h	**400-440 V**	50-60	**83899**
Caps for plugs					**83936**
Wander sockets IP 67					
32A PK PratiKa FAST	3P+⏚	3 h	**400-440 V**	50-60	**PKY32M7C4**
PK PratiKa Screw	3P+⏚	3 h	**400-440 V**	50-60	**PKF32M7C4**
Small wall-mounted sockets IP 67					
32A	3P+⏚	3 h	**400-440 V**	50-60	**PKF32W7C4**
Wall-mounted sockets IP 67					
32A	3P+⏚	3 h	**400-440 V**	50-60	**81199**
Panel-mounted angled sockets IP 67					
32A PK PratiKa Screw	3P+⏚	3 h	**400-440 V**	50-60	**PKY32F7C4**
PK PratiKa Screw	3P+⏚	3 h	**400-440 V**	50-60	**PKF32F7C4**
Panel-mounted straight sockets IP 67					
32A PK PratiKa FAST	3P+⏚	3 h	**400-440 V**	50-60	**PKY32G7C4**
PK PratiKa Screw	3P+⏚	3 h	**400-440 V**	50-60	**PKF32G7C4**
Interlocked sockets PK Unika IP 65 - wall mounted					
32A	3P+⏚	3 h	**400-440 V**	50-60	**83299**
Interlocked sockets PK Unika with fuse carriers IP 65 - wall mounted					
32A	3P+⏚	3 h	**400-440 V**	50-60	**83399**
Interlocked sockets PK Isoblock with rail DIN IP 65 - 4.5 mod.					
32A	3P+⏚	3 h	**400-440 V**	50-60	**83799**

PK Plugs and sockets
Low voltage
Domestic panel-mounted sockets

NEW

81139

81140

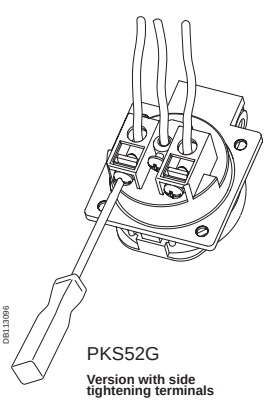
81141

81142

NEW

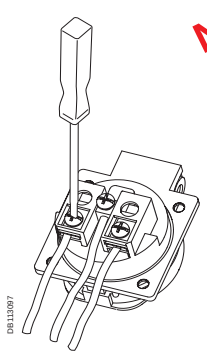
PKS52B

PKS61B



PKS52G

Version with side tightening terminals



PKS51G

Version with back tightening terminals

Functions

They are available in the panel-mounted versions and can be fitted directly on Kaedra enclosures and the PK Unika series multiple adjustment flanges.

Characteristics

- Degree of protection, according to IEC 60529: IP 54 and IP65
- Degree of protection against external mechanical impacts, according to EN 50102: IK09
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Materials:
  - housing made of self-extinguishing engineering polymer
  - blue, black or gray (RAL 7035)
  - pins and springs made of stainless steel
  - spring loaded cover

Code for domestic sockets 65 x 85 – IP65

rated current	poles and wires	rated voltage	type		code grey	
10/16 A	2P + ⏚	250V	standard Italy	2 sockets	**81139**	
10/16 A	2P + ⏚	250V	standard French	1 socket	**81140**	
10/16 A	2P + ⏚	250V	standard Germay	1 socket	**81141**	
10/16 A	2P + ⏚	250V	standard England	1 socket	**81144**	NEW
10/16 A	2P + ⏚	250V	standard Switzerland	1 socket	**81145**	NEW
10/16 A	2P + ⏚	250V	standard Italy	1 socket (dual - use)	**81146**	NEW

Code for RJ 45 support 65 x 85 – IP65

description	code grey
with 1 adapter RJ45 Infra+	**81142**
with 2 adapters RJ45 Infra+	**81143**

Code for domestic sockets 50 x 50 – IP54

NEW

rated current	poles and wires	rated voltage	type	code grey	code blue	code black
with back tightening terminals						
10/16 A	2P + ⏚	250V	standard Germany	**PKS51G**	**PKS51B**	**PKS51N**
10/16 A	2P + ⏚	250V	standard French	**PKN51G**	**PKN51B**	**PKN51N**
with side tightening terminals						
10/16 A	2P + ⏚	250V	standard Germany	**PKS52G**	**PKS52B**	**PKS52N**
10/16 A	2P + ⏚	250V	standard French	**PKN52G**	**PKN52B**	**PKN52N**

Code for domestic sockets 65 x 85 – IP54

NEW

rated current	poles and wires	rated voltage	type	code grey	code blue	code black
with back tightening terminals						
10/16 A	2P + ⏚	250V	standard Germany	**PKS61G**	**PKS61B**	**PKS61N**
10/16 A	2P + ⏚	250V	standard French	**PKN61G**	**PKN61B**	**PKN61N**
with side tightening terminals						
10/16 A	2P + ⏚	250V	standard Germany	**PKS62G**	**PKS62B**	**PKS62N**
10/16 A	2P + ⏚	250V	standard French	**PKN62G**	**PKN62B**	**PKN62N**

PK plugs and socket Extra-low voltage

P81022238

Index

PK Plugs and sockets Extra-low voltage
General presentation

A complete range of products to supply circuits with risks of direct and indirect contacts with live parts.

The PK range of extra-low voltage plugs and sockets is designed mainly for those applications requiring extra-low voltage power, as in the case of installations in especially damp environment or areas where there is risk of fire or explosions. These products are in conformity with the European IEC 60309-1 and IEC 60309-2 standards.

This particularly complete range of plugs, which are solid, well-sealed and resistant to chemical agents, has been developed thanks to Schneider's experience and knowhow.

- ❑ Very high performance products
- ❑ Easy installation
- ❑ A complete range

P91022239

Technical characteristics
The PK plugs and extra-low voltage plugs and sockets have been designed to resist atmospheric and chemical agents:
- ❑ IK08 shock resistance
- ❑ Plastic materials suitable for highly technical applications
- ❑ Nickel-plated brass pins and sleeves
- ❑ Stainless steel screws

A complete range
The PK range comprises highly practical 16 and 32A different versions, in conformity with standards:
- ❑ Wander plugs and sockets
- ❑ Wall-mounting plugs and sockets
- ❑ Panel-mounting plugs and sockets
- ❑ Available in different number of pole (2P and 3P)

Easy installation
The PK sockets are suitable for any configuration:
- ❑ Wall-mounted near the receiver
- ❑ Wander version for flexible feeder cable connection
- ❑ Direct mouting or through empty box or via the Kaedra enclosures or Unika interface

PK Plugs and sockets
Extra-low voltage
General presentation

Product range

The PK extra-low voltage sockets and plugs ensure the non-interchangeability by means of two reference elements:

- a guide spline on the plug which matches with a corresponding nib on the socket, always at a fixed 6 o'clock position
- a secondary keyway, also this a spline on the plug, to which corresponds a nib on the socket, at different clock positions according to the operating characteristics.

The clock position (h) of the secondary keyway is checked by observing, with the socket viewed from the front, the position of the nib in relation to the main keyway, always positioned at 6 o'clock, in accordance with the IEC 309-1 and IEC 309-2 standard.

Sockets with safety transformers

Sockets with safety transformers are used to power circuits with a voltage rating of 50V maximum, in order to protect people from direct and indirect contacts, in conformity with IEC364 standards.
The units integrates the socket, the power transformer and the transformer protection from any overloading.
They are available in different versions to meet the needs of the various distribution environments:

- PK Unika Series, for any tertiary and industrial plants and, especially, for combined use with other power systems installed in different ways: one by one, through modular bases or on Kaedra system socket enclosures;
- PK Isoblock Series, for installations in heavy industry or agricultural environments, where they are exposed to aggressive chemical agents, oils and grease and frequent jets of water or accidental shocks.

PK Plugs and sockets
Extra-low voltage
Selection guide

PK Plugs and sockets
IEC 60309-1 and IEC 60309-2

Rated current A	Poles and wires	Frequency Hz	Rated voltage V	Clock position of secondary keyway	Wander plugs IP 44	Wander plugs IP 67	Wall-mounted plugs IP 44
16 A	2 P	50/60	20-25 V	s.r.	82301	82351	82501
	3 P	50/60		s.r.	82302	82352	82502
	2 P	50/60	40-50 V	12 h	82303	82353	82503
	3 P	50/60		12 h	82304	82354	82504
	2 P	100-200	20-25 V e 40-50 V	4 h	82305	82355	82505
	3 P	100-200		4 h	82306	82356	82506
	2 P	401-500	20-25 V e 40-50 V	11 h	82311	82361	82511
	3 P	401-500		11 h	82312	82362	82512
	2 P	⎓	20-25 V e 40-50 V	10 h	82313	82363	82513
32 A	2 P	50/60	20-25 V	s.r.	82315	82365	82515
	3 P	50/60		s.r.	82316	82366	82516
	2 P	50/60	40-50 V	12 h	82317	82367	82517
	3 P	50/60		12 h	82318	82368	82518
	2 P	100-200	20-25 V e 40-50 V	4 h	82319	82369	82519
	3 P	100-200		4 h	82320	82370	82520
	2 P	401-500	20-25 V e 40-50 V	11 h	82325	82375	82525
	3 P	401-500		11 h	82326	82376	82526
	2 P	⎓	20-25 V e 40-50 V	10 h	82327	82377	82527

PK Sockets with safety transformer
IEC 60309-1 and IEC 60309-2

PK Unika

Rated power VA		Rated voltage primary	Rated voltage secondary	Number and type of sockets	PK unika Panel mounted version IP 44	PK unika Panel mounted version IP65	PK Unika Wall-mounted version IP 44	PK Unika Wall-mounted version IP 65
160 VA		230 V	24 V	1 x 2P 16A	82026	82076	83026	83076
		400 V	24 V	1 x 2P 16A	82027	82077	83027	83077
		230 V	24 V					
		400 V	24 V					

Selection guide

Other device types, not indicated, are available on request. See page 80 for further information.






Wander sockets		Wall-mounted sockets		Panel-mounted straight sockets flange 65 x 65	
IP 44	IP 67	IP 44	IP 67	IP 44	IP 67
82401 82402	82451 82452	82101 82102	82151 82152	82901 82902	82951 82952
82403 82404	82453 82454	82103 82104	82153 82154	82903 82904	82953 82954
82405 82406	82455 82456	82105 82106	82155 82156	82905 82906	82955 82956
82411 82412	82461 82462	82111 82112	82161 82162	82911 82912	82961 82962
82413	82463	82113	82163	82913	82963
82415 82416	82465 82466	82115 82116	82165 82166	82915 82916	82965 82966
82417 82418	82467 82468	82117 82118	82167 82168	82917 82918	82967 82968
82419 82420	82469 82470	82119 82120	82169 82170	82919 82920	82969 82970
82425 82426	82475 82476	82125 82126	82175 82176	82925 82926	82975 82976
82427	82477	82127	82177	82927	82977

PK Isoblock


Number and type of sockets	PK Isoblock Wall-mounted version IP 65
1 x 2P 16A	**82061**
1 x 2P 16A	**82063**
2 x 2P 16 A	**82062**
2 x 2P 16 A	**82064**

55 55

PK Plugs and sockets
Extra-low voltage
Wander plugs

Functions

Installations and wander sockets can be powered by a flexible cable.

Characteristics

Degree of protection, according to IEC 60529:

❑ 16 and 32A IP44 and IP 67

Degree of protection against external mechanical impacts, according to EN 50102: IK08

Resistance to fire and abnormal heat, according to IEC 60695-2-11: 850°C (glow wire test)

Materials:

❑ housing made of self-extinguishing engineering polymer

❑ pins made of nickel-plated brass

❑ stainless steel screw

cable entry:

In	IP44/IP67 fair-lead	IP67 cable gland
16A	6 – 23 mm	PG 21
32A	6 – 23 mm	PG 21

connection terminals

❑ captive screws, completely loosened

❑ maximum cross section of conductors:

In	Solid and stranded wire flexible cables
16A	4 to 10 mm²
32A	4 to 10 mm²

Code of wander plugs

82301

IP 44

rated current	poles and wires	rated voltage				
		20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	**82301**	**82303**	**82305**	**82311**	**82313**
	3P	**82302**	**82304**	**82306**	**82312**	
32A	2P	**82315**	**82317**	**82319**	**82325**	**82327**
	3P	**82316**	**82318**	**82320**	**82326**	

82368

IP 67

rated current	poles and wires	rated voltage				
		20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	**82351**	**82353**	**82355**	**82361**	**82363**
	3P	**82352**	**82354**	**82356**	**82362**	
32A	2P	**82365**	**82367**	**82369**	**82375**	**82377**
	3P	**82366**	**82368**	**82370**	**82376**	

PK Plugs and sockets
Extra-low voltage
Wall-mounted plugs

Functions

They can be wall-mounted to supply appliances with wander sockets.

Characteristics

Degree of protection, according to IEC 60529:

- ❑ 16 and 32A IP44 and IP 67

Degree of protection against external mechanical impacts, according to EN 50102: IK08

Resistance to fire and abnormal heat, according to IEC 60695-2-11: 850°C (glow wire test)

Materials:

- ❑ housing made of self-extinguishing engineering polymer
- ❑ pins made of nickel-plated brass
- ❑ stainless steel screw

cable entry:

In	IP44/IP67 fair-lead	IP67 cable gland
16A	6 – 23 mm	PG 21
32A	6 – 23 mm	PG 21

connection terminals

- ❑ captive screws, completely loosened
- ❑ maximum cross section of conductors :

In	Solid and stranded wire flexible cables:
16A	4 to 10 mm^2
32A	4 to 10 mm^2

82501

Code of wall-mounted plugs

IP 44

rated current	poles and wires	rated voltage				
		20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	**82501**	**82503**	**82505**	**82511**	**82513**
	3P	**82502**	**82504**	**82506**	**82512**	
32A	2P	**82515**	**82517**	**82519**	**82525**	**82527**
	3P	**82516**	**82518**	**82520**	**82526**	

PK Plug and sockets
Extra-low voltage
Wander sockets


PR102243

Functions
Designed to supply fixed or movable equipements by a flexible cable.

Characteristics
Degree of protection, according to IEC 60529:
- ❑ 16 and 32A IP44 and IP 67

Degree of protection against external mechanical impacts, according to EN 50102: IK08
Resistance to fire and abnormal heat, according to IEC 60695-2-11: 850°C (glow wire test)
Materials:
- ❑ housing made of self-extinguishing engineering polymer
- ❑ sleeves made of nickel-plated brass
- ❑ screws, pins and springs made of stainless steel

cable entry:

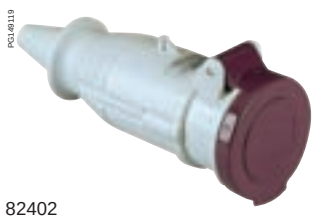
In	IP44/IP67 fair-lead	IP67 cable gland
16A	6 – 23 mm	PG 21
32A	6 – 23 mm	PG 21

connection terminals
- ❑ captive screws, completely loosened
- ❑ maximum cross section of conductors :

In	Solid and stranded wire flexible cables
16A	4 to 10 mm^2
32A	4 to 10 mm^2

Code of wander sockets

IP 44


PG140119

82402

rated current	poles and wires	rated voltage				
		20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	**82401**	**82403**	**82405**	**82411**	**82413**
	3P	**82402**	**82404**	**82406**	**82412**	
32A	2P	**82415**	**82417**	**82419**	**82425**	**82427**
	3P	**82416**	**84518**	**82420**	**82426**	

IP 67


PG140123

82468

rated current	poles and wires	rated voltage				
		20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	**82451**	**82453**	**82455**	**82461**	**82463**
	3P	**82452**	**82454**	**82456**	**82462**	
32A	2P	**82465**	**82467**	**82469**	**82475**	**82477**
	3P	**82466**	**82468**	**82470**	**82476**	

PK Plugs and sockets
Extra-low voltage
Wall-mounted sockets


PB102244

Functions

They can be wall-mounted to supply appliances with wander plugs.

Characteristics

Degree of protection, according to IEC 60529:
- ❑ 16 and 32A IP44 and IP 67

Degree of protection against external mechanical impacts, according to EN 50102: IK08
Resistance to fire and abnormal heat, according to IEC 60695-2-11: 850°C (glow wire test)
Materials:
- ❑ housing made of self-extinguishing engineering polymer
- ❑ sleeves made of nickel-plated brass
- ❑ screws, pins and springs made of stainless steel

cable entry:

In	IP44/IP67 fair-lead	IP67 cable gland
16A	6 – 23 mm	PG 21
32A	6 – 23 mm	PG 21

connection terminals
- ❑ captive screws, completely loosened
- ❑ maximum cross section of conductors :

In	Solid and stranded wire flexible cables
16A	4 to 10 mm^2
32A	4 to 10 mm^2

Code of wall-mounted sockets

IP 44


PG149145

82101

rated current	poles and wires	rated voltage 20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	**82101**	**82103**	**82105**	**82111**	**82113**
	3P	**82102**	**82104**	**82106**	**82112**	
32A	2P	**82115**	**82117**	**82119**	**82125**	**82127**
	3P	**82116**	**84118**	**82120**	**82126**	


PB102245

82168

IP 67

rated current	poles and wires	rated voltage 20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	**82151**	**82153**	**82155**	**82161**	**82163**
	3P	**82152**	**82154**	**82156**	**82162**	
32A	2P	**82165**	**82167**	**82169**	**82175**	**82177**
	3P	**82166**	**82168**	**82170**	**82176**	

PK Plug and sockets
Extra-low voltage
Panel-mounted sockets


PK102246

Functions

They can be mounted on a plate, panel or machine to supply appliances with wander plugs.

Characteristics

Degree of protection, according to IEC 60529:
- ❑ 16 and 32A IP44 and IP 67

Degree of protection against external mechanical impacts, according to EN 50102: IK08
Resistance to fire and abnormal heat, according to IEC 60695-2-11: 850°C (glow wire test)
Materials :
- ❑ housing made of self-extinguishing engineering polymer
- ❑ sleeves made of nickel-plated brass
- ❑ screws, pins and springs made of stainless steel

connection terminals
- ❑ captive screws, completely loosened
- ❑ maximum cross section of conductors :

In	Solid and stranded wire flexible
16A	1 to 2,5 mm^2
32A	2,5 to 6 mm^2

Code of panel-mounted sockets flange 65 x 65 mm


PG149159

82901

IP 44

rated current	poles and wires	rated voltage				
		20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	82901	82903	82905	82911	82913
	3P	82902	82904	82906	82912	
32A	2P	82915	82917	82919	82925	82927
	3P	82916	84918	82920	82926	


PG149163

82954

IP 67

rated current	poles and wires	rated voltage				
		20-25V 50/60Hz	40-50V 50/60Hz	20-25V/40-50V 100-200Hz	20-25V/40-50V 401-500Hz	20-25/40-50V ⎓
16A	2P	82951	82953	82955	82961	82963
	3P	82952	82954	82956	82962	
32A	2P	82965	82967	82969	82975	82977
	3P	82966	82968	82970	82976	

PK sockets with interlock switch

Index

PK Sockets with interlock switch
General presentation

A complete range in order to guarantee safety, reliability and functionality

PK sockets with interlocked switch are available in three different ranges of solutions to meet the various installation and protection needs depending on different installation environments.

A very versatile range, rich in functional characteristics, easy installation and guaranteeing maximum safety, and suitable for the most specific requirements.

- ❑ PK Unika: highly functional features and very versatile installation system;
- ❑ PK Isoblock: for installation in high-risk areas


PK102248

Safety

In conformity with IEC 60309 standards, all the industrial sockets have a lock or holding mechanism, which keeps the plug firmly locked in the socket, preventing it from being pulled out involontarily. Sockets with an interlock switch have been designed to meet the safety requirements and, in particular, to prevent plug insertion or removal while the socket is under load.
Their interlocking device allows closure of the main switch and, subsequently, the power supply only when the plug is fully inserted in the socket, and when complete mechanical and electrical connection has occurred between the sleeves and pins.
Plug removal is possible only when the switch is in the ‘off’ position.
The use of these solutions is compulsory in accordance with the regulations in force, e.g. in places where there is a risk of explosion or fire. However, in order to prevent dangerous contacts capable of causing overheating and consequently insulation deterioration or the outbreak of a fire, it is always advisable to adopt this safety measures. In this way the user has the guarantee that current can only be accessed under optimum safety conditions with the plug correctly inserted.

PK Sockets with interlock switch
Applications

Domain of applications
Interlocked sockets can be employed in various different sectors, for example:

Tertiary:
- ❑ bars, shops, supermarkets, for powering small electrical appliances (refrigerator, ovens, fryers, blenders, ...), machines and fixed or movable lighting equipment.
- ❑ Large shopping centres, exhibition centres, television studios, film studios, swimming-pools, fitness centres, for powering fixed or movable lighting equipment.

Industry:
for powering all kinds of fixed and movable machines and on machinery in the following sectors:
- ❑ Crafts men and small industries : workshops, car-repair garages, printing works, carpentry workshops, etc.
- ❑ Industry: departments for textile manufacture, mechanical and plastic production processes, industrial processes, technical environments, warehouses, etc.

Construction sites:
fixed or movable powering of machinery and equipement in:
- ❑ buiding sites (cement-mixer crane, electric saws, pneumatic drills, etc. ...),
- ❑ shipyards, ports, docks, wharves and tourist ports (equipment for welding, drilling, vireting, etc. ...)

Agriculture:
fixer of movable powering of machinery and equipment (chicken coops, barns, hot houses, cowsheds, stables and pigsties, ...)

Heavy industry:
for powering all kinds of fixed and movable machines in major industry with hazardous environments as regards danger of explosion, fire and mechanical stress (chemical, oil and iron steel) infrastructures, where there are particularly harsh environmental conditions.

Applications standards
Standard regulations provide the compulsory use of sockets with interlock switch in the following cases:
- ❑ Public entertainment and meeting rooms, for current over 16A;
- ❑ Environments where there is danger of explosions and fire, in conformity with the CEI 64-2 standard.

Besides all the other cases provided by the standards, the use of interlocked sockets is definitely compulsory in applications where:
- ❑ the occurrence of electric arcs could cause explosions and fires;
- ❑ operator inexperience could give rise to hazardous situations;
- ❑ in the event of operations needing to be performed in the presence of short circuits.

PK Sockets with interlock switch
Selection guide

PK Sockets with interlock switch
IEC 60309-1 and IEC 60309-2

PK Unika
Panel-mounted version

Rated nominal	Poles and wires	Frequency	Rated voltage	Clock position of contact	Protected by FUSE carrier			
A		Hz	V		IP 44	IP 65	IP 44	IP 65
16A	2 P+⏚	50/60	100-130 V	4 h	82028	82078	82128	82178
	3 P+⏚	50/60		4 h	82029	82079	82129	82179
	3 P+N+⏚	50/60		4 h	82030	82080	82130	82180
	2 P+⏚	50/60	200-250 V	6 h	82031	82081	82131	82181
	3 P+⏚	50/60		9 h	82032	82082	82132	82182
	3 P+N+⏚	50/60		9 h	82033	82083	82133	82183
	2 P+⏚	50/60	380-415 V	9 h	82034	82084	82134	82184
	3 P+⏚	50/60		6 h	82035	82085	82135	82185
	3 P+N+⏚	50/60		6 h	82036	82086	82136	82186
	3 P+⏚	50/60	480-500 V	7 h	82037	82087	82137	82187
	3 P+N+⏚	50/60		7 h	82038	82088	82138	82188
32 A	2 P+⏚	50/60	100-130 V	4 h	82039	82089	82139	82189
	3 P+⏚	50/60		4 h	82040	82090	82140	82190
	3 P+N+⏚	50/60		4 h	82041	82091	82141	82191
	2 P+⏚	50/60	200-250 V	6 h	82042	82092	82142	82192
	3 P+⏚	50/60		9 h	82043	82093	82143	82193
	3 P+N+⏚	50/60		9 h	82044	82094	82144	82194
	2 P+⏚	50/60	380-415 V	9 h	82045	82095	82145	82195
	3 P+⏚	50/60		6 h	82046	82096	82146	82196
	3 P+N+⏚	50/60		6 h	82047	82097	82147	82197
	3 P+⏚	50/60	480-500 V	7 h	82048	82098	82148	82198
	3 P+N+⏚	50/60		7 h	82049	82099	82149	82199
63 A	3 P+⏚	50/60	100-130 V	4 h				
	3 P+N+⏚	50/60		4 h				
	2 P+⏚	50/60	200-250 V	6 h				
	3 P+⏚	50/60		9 h				
	3 P+N+⏚	50/60		9 h				
	3 P+⏚	50/60	380-415 V	6 h				
	3 P+N+⏚	50/60		6 h				
	3 P+⏚	50/60	480-500 V	7 h				
	3 P+N+⏚	50/60		7 h				

PK Sockets with safety transformer
IEC 60309-1 and IEC 60309-2

Rated power	Number and type	Rated voltage primary	secondary		
VA	of sockets	V	V	IP 44	IP 65
16A	1 x 2 P 16A	230 V	24V	82026	82076
	1 x 2 P 16A	400 V	24V	82027	82077

Wall and embedded box

Number of sockets	Embedded box
1	83924
1 unmarked walls	
1 wall with knock-outs	
1 with junction box	
2 with junction box	
3 with junction box	

PK Unika

Wall-mounted version

Protected by FUSE carrier			
IP44	IP65	IP44	IP65
83028	83078	83128	83178
83029	83079	83129	83179
83030	83080	83130	83180
83031	83081	83131	83181
83032	83082	83132	83182
83033	83083	83133	83183
83034	83084	83134	83184
83035	83085	83135	83185
83036	83086	83136	83186
83037	83087	83137	83187
83038	83088	83138	83188
83039	83089	83139	83189
83040	83090	83140	83190
83041	83091	83141	83191
83042	83092	83142	83192
83043	83093	83143	83193
83044	83094	83144	83194
83045	83095	83145	83195
83046	83096	83146	83196
83047	83097	83147	83197
83048	83098	83148	83198
83049	83099	83149	83199

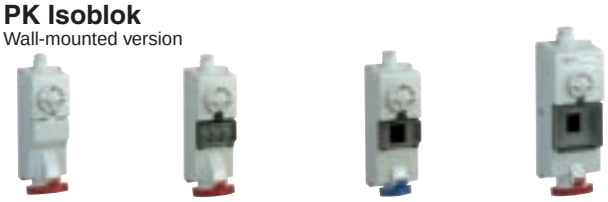
IP44	IP65	
83026	83076	1 P
83027	83077	2 P

Modular basis

wall mounting box			
83919			
83920			
	83921		
		83922	
			83923

PK Isoblok

Wall-mounted version



Protected by fuse carrier		With DIN rail	
	with warning device		
IP65	IP65	IP65	IP65
83451 ▲	83351 ▲	82751 ▲	
83452 ▲	83352 ▲	82752 ▲	
83453 ▲	83353 ▲	82753 ▲	
83454 ▲	83354 ▲	82754 ▲	
83455 ▲	83355 ▲	82755 ▲	
83456 ▲	83356 ▲	82756 ▲	
83457 ▲	83357 ▲	82757 ▲	
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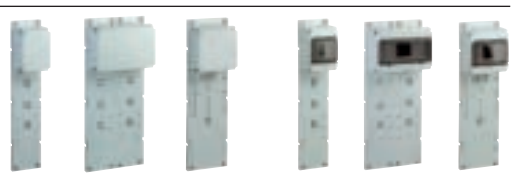
83459 ▲	83359 ▲	82759 ▲	
83461 ▲	83361 ▲	82761 ▲	
83462 ▲	83362 ▲	82762 ▲	
83463 ▲	83363 ▲	83788 ▲	82763 •
83464 ▲	83364 ▲	83789 ▲	82764 •
83465 ▲	83365 ▲	83790 ▲	82765 •
83466 ▲	83366 ▲	83791 ▲	82766 •
83467 ▲	83367 ▲	83792 ▲	82767 •
83468 ▲	83368 ▲	83793 ▲	82768 •
83469 ▲	83369 ▲	83794 ▲	82769 •
83470 ▲	83370 ▲	83795 ▲	82770 •
83471 ▲	83371 ▲	83796 ▲	82771 •
83473 ▲	83373 ▲	83797 ▲	82773 •
83474 ▲	83374 ▲	83798 ▲	82774 •
82876 •			82778 •
82877 •			82777 •
82878 •			82776 •
82879 •			82779 •
82880 •			82780 •
82882 •			82782 •
82883 •			82783 •
82885 •			82785 •
82886 •			82786 •

IP65	IP65
82061 •	82062 •
82063 •	82064 •



Modular panels

Number and type sockets	with junction box	with modular enclosures
1 x B16	▲ 83925	▲ 83325
2 x B16	▲ 83926	▲ 83326
1 x 32/63	• 83927	• 83327

▲ = Sockets 106 mm width

• = Sockets 144 mm width

PK sockets with interlocked switch PK Unika
General presentation

A complete range of solutions in one standard size

The new range of PK Unika sockets with interlocked switch has been designed to provide a complete range of interlocked sockets in different versions, in terms of level and type of protection, all having unified standard sizes in order to permit quick installation, and combined fitting on empty enclosures with a standard 103x225 opening.

Compact, unified sizes, versions with IP44 and IP65 protection, panel and wall-mounted, with or without integrated protection, all sockets provide quick solutions to the most demanding applications.

The only complete, unique industrial socket installation system, with guaranteed IP65 protection.
Unique because of the following:
- ❑ one standard size 103 x 225 mm
- ❑ for 16 and 32A sockets
- ❑ for IP44 and IP65 versions
- ❑ for versions protected by fuses, without protection, with insulation transformers
- ❑ Fitted wall-mounted, used individually, in combination or in the Kaedra system.

Safety
The PK Unika series interlocked sockets are equipped with a mechanical switch, which ensures the control and local isolating of parts of the plant or utilities to permit intervention on electrical circuits or machines in total safety.
The sockets are in conformity with IEC 60309-2 standards.

Protection
The fuse-protected versions have fuse-blocks with isolators placed under the front protection and accessible only when the switch is open and plug removed and, thus, in the total absence of voltage.
Thanks to the fuse clips, the contact pressure on the fuses remains constant independent of installation operations, preventing excessive overheating, harmful to their functioning and duration.

High resistance
All housings of the PK Unika interlocked socket series provide guaranteed IP44 and IP65 protection against the penetration of solids and liquids, in conformity with the IEC 60529 and EN 60 529 standards, while resistance to mechanical shocks is covered by IK09 protection, in conformity with EN 50 102 standards. The structure and supporting frame of the equipment completely separated from the housing and the double walls, contribute to greatly increasing the mechanical resistance.

PK sockets with interlocked switch PK Unika
Key points

Compact size
All the PK Unika sockets with interlocked switch come in one standard size of 103 x 225 mm., which makes them the most compact currently available on the market, guaranteeing at the same time ultra-high performance in terms of safety and functionality.

Differentiated functions in one single size
The PK Unika socket series are available in different versions, either with IP44 or IP 65 protection, as follows:
- ❑ Interlocked version with carrier for CH10.3x38 cylindrical fuses with high interruption capacity;
- ❑ Version with safety lock switch only
- ❑ Version for extra-low voltage with 160VA safety transformer.

All are characterized by the same dimension and, therefore, can be easily interchanged on the 103x225 holes.

Design
Design is another important aspect of this new range. Developed following careful studies both on aesthetics and ergonomy, the range includes modern shapes designed for applications in the tertiary sector as well as in public areas without spoiling the architectural surroundings with purely technological features.

Kaedra System and modular bases
PK Unika series sockets can be installed either on single enclosures or modular bases, and can be combined to form complete, totally protected banks. Also, they can be fitted on a new range of Kaedra system socket panels designed specifically for PK Unika, enabling the construction of interlocked socket panels with the possibility of differential protection integrated as a main switch in the modular section of the panel.

PK sockets with interlocked switch
PK Unika
Protected by disconnect fuse carriers
Panel-mounted and wall-mounted version

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

Characteristics

■ Manufactured according to IEC 60947-3 with the following technical features:

Operating voltage	Rated current	AC22	AC23A
400 V	16A	20A	9,5 kW
	32A	32A	16 kW

■ the switch can be externally padlocked into position «0» and «1»
■ disconnect fuse carriers for CH10,3 x 38 type fuse, complying with IEC 60269
■ access lid to fuse curriers can be opened only with the switch in position “0”
■ degree of protection, according to IEC 60529: IP44 and IP65
■ degree of protection against external mechanical impacts, according to EN 50 102: IK09
■ resistance to fire and abnormal heat, according to IEC 60695-2-1: 750°C (glow wire test)
■ Materials :
❑ housing made of self-extinguishing engineering polymer
❑ Ral colour 7035
❑ screws, pins and springs made of stainless steel
■ connection terminals:
❑ captive screws
❑ maximum cross section of conductors: 10 mm²
■ wall-mounted version:
❑ cable entry from the top
❑ complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG21
❑ screw head plugs fused not supplied

82147

82197

83131

83181

Code of panel-mounted sockets PK Unika

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	82128	82131	82134	
	3P+⏚	82129	82132	82135	82137
	3P+N+⏚	82130	82133	82136	82138
32A	2P+⏚	82139	82142	82145	
	3P+⏚	82140	82143	82146	82148
	3P+N+⏚	82141	82144	82147	82149

IP 65

16A	2P+⏚	82178	82181	82184	
	3P+⏚	82179	82182	82185	82187
	3P+N+⏚	82180	82183	82186	82188
32A	2P+⏚	82189	82192	82195	
	3P+⏚	82190	82193	82196	82198
	3P+N+⏚	82191	82194	82197	82199

Code of wall-mounted sockets PK Unika

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	83128	83131	83134	
	3P+⏚	83129	83132	83135	83137
	3P+N+⏚	83130	83133	83136	83138
32A	2P+⏚	83139	83142	83145	
	3P+⏚	83140	83143	83146	83148
	3P+N+⏚	83141	83144	83147	83149

IP 65

16A	2P+⏚	83178	83181	83184	
	3P+⏚	83179	83182	83185	83187
	3P+N+⏚	83180	83183	83186	83188
32A	2P+⏚	83189	83192	83195	
	3P+⏚	83190	83193	83196	83198
	3P+N+⏚	83191	83194	83197	83199

PK sockets with interlocked switch
PK Unika
Without protection
Panel-mounted and wall-mounted version

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

Characteristics

■ Manufactured according to IEC 60947-3 with the following technical features:

Operating voltage	Rated current	AC22	AC23A
400 V	16A	20A	9,5 kW
	32A	32A	16 kW

■ the switch can be externally padlocked into position «0» and «1»
■ degree of protection, according to IEC 60529: IP44 and IP65
■ degree of protection against external mechanical impacts, according to EN 50 102: IK09
■ resistance to fire and abnormal heat, according to IEC 60695-2-1: 750°C (glow wire test)
■ Materials:
❑ housing made of self-extinguishing engineering polymer
❑ RAL colour 7035
❑ screws, pins and springs made of stainless steel
■ connection terminals:
❑ captive screws
❑ maximum cross section of conductors: 10 mm²
■ wall-mounted version:
❑ cable entry from the top
❑ complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG21 cable gland
❑ screw head plugs fused not supplied

82031

82041

83031

83041

Code of panel-mounted PK Unika sockets

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	82028	82031	82034	
	3P+⏚	82029	82032	82035	82037
	3P+N+⏚	82030	82033	82036	82038
32A	2P+⏚	82039	82042	82045	
	3P+⏚	82040	82043	82046	82048
	3P+N+⏚	82041	82044	82047	82049

IP 65

16A	2P+⏚	82078	82081	82084	
	3P+⏚	82079	82082	82085	82087
	3P+N+⏚	82080	82083	82086	82088
32A	2P+⏚	82089	82092	82095	
	3P+⏚	82090	82093	82096	82098
	3P+N+⏚	82091	82094	82097	82099

Code of wall-mounted PK Unika sockets

IP 44

rated current	poles and wires	rated voltage 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	83028	83031	83034	
	3P+⏚	83029	83032	83035	83037
	3P+N+⏚	83030	83033	83036	83038
32A	2P+⏚	83039	83042	83045	
	3P+⏚	83040	83043	83046	83048
	3P+N+⏚	83041	83044	83047	83049

IP 65

16A	2P+⏚	83078	83081	83084	
	3P+⏚	83079	83082	83085	83087
	3P+N+⏚	83080	83083	83086	83088
32A	2P+⏚	83089	83092	83095	
	3P+⏚	83090	83093	83096	83098
	3P+N+⏚	83091	83094	83097	83099

PK sockets with interlocked switch
PK Unika
Sockets with safety transformer SELV
Panel-mounted and wall-mounted version

Units fitted with safety transformers, in conformity with IEC742 standards.

Functions

Their modular size enables them to be used with all the components of the PK Unika series. They are used to power circuits with a voltage rating of 50V maximum, to protect users against direct and indirect contacts, in conformity with IEC 60364 standards.

Characteristics

- safety transformer with rated power pf 160VA under continuous use
- operating voltage 230:24V or 400/24V
- transformer protected against short-circuit by the cylindrical fuses supplied
- power supply switch on the primary controlled by a special mechanism upon the insertion of the plug
- degree of protection, according to IEC 60529: IP44 and IP65
- degree of protection against external mechanical impacts, according to EN 50102 :IK09
- resistance to fire and abnormal heat, according to IEC 60695-2-1: 750°C (glow wire test)
- the unit is rated as Class II-according to IEC 60742
- Material
  - housing made of self-extinguishing engineering polymer
  - RAL colour 7035
  - screws pins and springs made of stainledd steel
- connection terminals:
  - captive screws
  - maximum cross section of conductors: 6mm²
- available as follows:
  - fitted with one very-low-voltage IEC 60309 socket, 24 V 2P
  - wall-mounted
  - complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG21 cable gland
  - supplied with screw head cover

82026

82076

Code of panel-mounted PK Unika with safety transformer

IP 44

rated power	rated voltage primary	rated voltage secondary	number and type of sockets	Code
160 VA	230 V	24 V	1 x 16 A	82026
	400 V	24 V	1 x 16 A	82027

IP 65

rated power	rated voltage primary	rated voltage secondary	number and type of sockets	Code
160 VA	230 V	24 V	1 x 16 A	82076
	400 V	24 V	1 x 16 A	82077

83026

83076

Code of wall-mounted PK Unika with safety transformer

IP 44

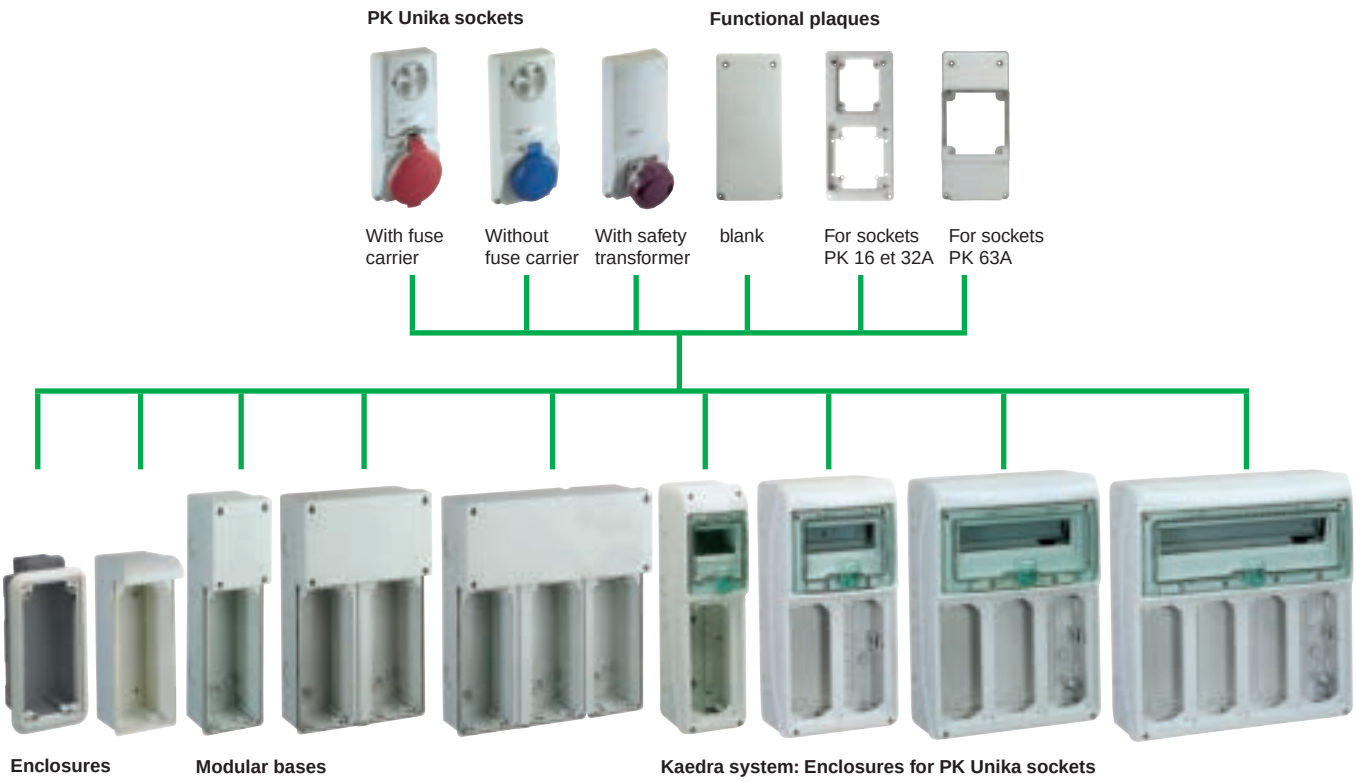
rated power	rated voltage primary	rated voltage secondary	number and type of sockets	Code
160 VA	230 V	24 V	1 x 16 A	83026
	400 V	24 V	1 x 16 A	83027

IP 65

rated power	rated voltage primary	rated voltage secondary	number and type of sockets	Code
160 VA	230 V	24 V	1 x 16 A	83076
	400 V	24 V	1 x 16 A	83077

PK sockets with interlocked switch
PK Unika
Installation flexibility

Unique size: 103x225 mm



Installation flexibility

The PK Unika sockets with interlocked switch are suitable for wall and embedded mounting or panel mounting. The offer complains a complete range of enclosures for different installation ways: individual emplacement or combination in banks.
Its compact size permits to have panel boards with small overall dimensions.
The PK Unika sockets are equiped with the new five thread which enables a fast fixing on all enclosures.

PK sockets with interlocked switch
PK Unika
Wall and embedded-box

These can be fitted either wall-mounted or wall-embedded or in the PK Unika series interlocked socket panels.

Wall-mounting box

Functions

They enable wall-mounted installation of sockets with interlock or safety transformers. On the upper part there is a section with a small cover intended for increased volumes of wiring.

Characteristics

- Degree of protection, according to IEC 60529: IP65
- Degree of protection against external mechanical impacts, according to EN 50102: IK09
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 750°C (glow wire test)
- Complete insulation characteristics in according with EN 60439-1
- Materials :
  - housing made of self-extinguishing engineering polymer
  - RAL colour 7035
  - Stainless steel screws
- Fond :
  - cable entry from the top
  - fair-lead for 25 mm max.diameter cables and conduits
  - version with knockout holes M32 mm diam. for association
  - supplied with screw head covers

83919

Code of wall-mounting box

Dimensions L	H	P	degree of protection		code
103	250	70	**IP65**	with unmarked walls	**83919**
103	250	70	**IP65**	walls with knock-outs	**83920**

Embedded box

Functions

They enable panel-mounted installation of sockets with interlock or safety transformers.

Characteristics

- After installation degree of protection, according to IEC 60529: IP55
- Degree of protection against external mechanical impacts, according to EN 50102 :IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 750°C (glow wire test)
- Materials :
  - housing made of self-extinguishing engineering polymer
  - RAL colour 7035 for frame/black for box
  - Stainless steel screws

83924

Code of embedded box

Dimensions L	H	P	degree of protection	Code
103	235	70	**IP65**	**83924**

PK sockets with interlocked switch
PK Unika
Modular bases

For wall-mounted fitting in combinations of one or more PK Unika series interlocked sockets and other PK series sockets.

83921

83922

83923

Functions

They enable wall-mounted fitting of sockets with interlock or safety transformers. On the upper part there is a box incorporated designed for easy power feeding and wiring distribution.

Characteristics

- ■ After installation degree of protection, according to IEC 60529: IP65
- ■ Degree of protection against external mechanical impacts, according to EN 50102: IK09
- ■ Resistance to fire and abnormal heat, according to IEC 60695-2-1: 650°C (glow wire test)
- ■ Complete insulation characteristics in according with EN 60439
- ■ Materials :
  - ❑ housing made of self-extinguishing engineering polymer
  - ❑ RAL colour 7035
  - ❑ Stainless steel screws
- ■ Fond :
  - ❑ cable entry from the top
  - ❑ fair-lead for 25 mm max.diameter cables and conduits
  - ❑ version with knockout holes M32 mm diam. for association
  - ❑ supplied with screw head covers

Code of modular basis

Dimensions H	L	P	degree off protection	number of sockets	Code
350	105	70	**IP65**	1	**83921**
350	210	70	**IP65**	2	**83922**
350	315	70	**IP65**	3	**83923**

Code of auxiliary components for modular basis

Description	Code
Association kit M32 for modular basis and boxes with 2 niples and nuts diam. 32 mm	**13934**

13143

13142

13144

Code of functional plaques

For closing the openings 103 x 225 of different PK Unika and Kaedra system enclosures

Description	Code
Blank plaques marked for fixing: - panel mounted straight PK sockets for low and extra-low voltage with flange 65 x 65 mm or 75 x 75 mm - 1 or 2 devices diam. 22,2 mm.	**13143**
Plaques with 2 openings - 1 of 65 x 85 mm for direct fixing of angled PK sockets 16A 2P+⏚ and 3P+⏚ or domestic sockets - 1 of 90 x 100 mm for direct fixing of angled PK sockets 16A 4P+⏚ and 32A	**13142**
Plaques with 1 opening 107 x 114 mm for direct fixing of angled or straight PK sockets 63A	**13144**

For other plaques the page 68.

PK sockets with interlocked switch
PK Isoblock
General presentation

A complete range for heavy-duty applications

The range of PK Isoblock is designed for installations of interlocked sockets up to 125A in heavy stress environments such as the industrial sector or infrastructures, where there is exposure to liquids, mechanical shocks and aggressive chemicals. Their size enables combinations to be made trought special modular bases, in order to provide complete socket banks that are totally protected and easily extendable.

IP65 protection, IK10 shock-resistance, high resistance to aggressive chemical and atmospheric agents, specifically designed for heavy-duty applications.

Safety
The PK Isoblock series interlocked sockets are equipped with a mechanical switch, which ensures the control and local isolating of parts of the plant or utilities in order to enable intervention on electrical circuits or machines in total safety.

Resistance
The PK Isoblock series interlocked sockets, which are made of special techno-polymers, provide ultra-high resistance to aggressive chemical and atmospheric agents and guarantee maximum protection even in difficult, hazardous environments.

Protection
The PK Isoblock series provide guaranteed IP65 protection against the penetration of solids and liquids, in conformity with the IEC 60529 standards, while resistance to mechanical shocks is covered by IK10 protection, in conformity with EN 50 102 standards.

PK sockets with interlocked switch
PK Isoblock
Key points

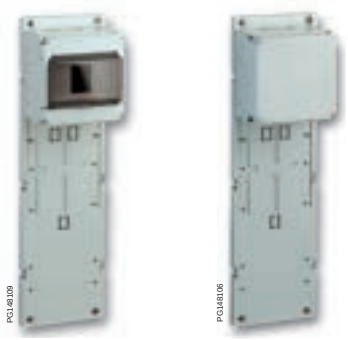
Differentiated functions

The PK Isoblock interlocked sockets are available in different versions:

- ❑ version with carrier for CH 10,3x38 cylindrical fuses in the 16 e 32 A applications and with E33 carrier for DIII fuses in the 63A applications;
- ❑ version with carrier for CH 10,3x38 cylindrical fuses equipped with LED indicator device, which it warns of the voltage presence in each phase;
- ❑ version with DIN rail for installing any kind of modular equipment.

Modular panels

The cover of each individual interlocked socket can be easily removed enabling access for wiring and interconnections.
For the installation of associated interlocked sockets, modular panels are available ready-equipped with an junction box or modular enclosures.



NEW

Sockets with interlock switch

The Isoblock series of 63-125A with thermal-magnetic (with or without earth-fault protection) is now equipped with the Compact NS160N circuit breaker, which give to the end-user lasting safety together with unsurpassed energy availability and very high electrical and technical features.

Socket combinations

The PK Isoblock interlocked socket combinations consist of complete distribution units characterized by the high performance of the different sockets and, therefore, are intended for installation in hazardous environments.
They are easily combined with the connections devices supplied with each panel.

PK Sockets with interlock switch
PK Isoblock
Protected by fuse carriers
Wall-mounted version

Thanks to their high performances they are intended for installation in environments where there are aggressive chemical agents, oils and grease, and frequent jets of water or accidental shocks.

Functions

They ensure the control and local isolating of parts of the plant or utilities so as to enable intervention on electrical circuits or machines in total safety.

Characteristics

■ Manufactured according to IEC 60947-3 with the following technical features:

Operating voltage	Rated current	AC22	AC23A
400 V	16A	20A	9,5 kW
	32A	32A	16 kW
	63A	63A	30 kW

■ the switch can be externally padlocked into position « 0 » and « 1 »
■ disconnect fuse carriers for CH10,3x38, complying with IEC 60269
■ access lid to fuse curriers can be opened only with the switch in position “0”
■ Degree of protection, according to IEC 60529: IP65
■ Degree of protection against external mechanical impacts, according to EN 50102: IK10
■ Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
■ Materials :
❑ housing made of self-extinguishing engineering polymer
❑ RAL colour 7035
❑ screws, pins and springs made of stainless steel
■ connection terminals :
❑ captive screw
❑ maximum cross section of conductors: 10 mm² for 16 and 32A: 35mm² for 63A
■ wall-mounted version :
❑ cable entry from the top
❑ complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG 21 cable gland for 16 and 32A and PG29 for 63A
■ fuses not supplied

83454

83471

82883

Code of PK Isoblock sockets with fuse carriers 10,3x38

IP 65

rated current	number of sockets	type	rated voltage V			
			100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	B16	83451	83454	83457	
	3P+⏚	B16	83452	83455	83458	83461
	3P+N+⏚	B16	83453	83456	83459	83462
32A	2P+⏚	B16	83463	83466	83469	
	3P+⏚	B16	83464	83467	83470	83473
	3P+N+⏚	B16	83465	83468	83471	83474

Code of PK Isoblock sockets with fuse carriers E33

IP 65

rated current	number of sockets	type	rated voltage V			
			100-130V	200-250V	380-415V	480-500V
63A	2P+⏚	B32/63		82878		
	3P+⏚	B32/63	82876	82879	82882	82885
	3P+N+⏚	B32/63	82877	82880	82883	82886

PK Sockets with interlock switch
PK Isoblock
With fuse carriers and warning device
Wall-mounted version

Thanks to their high performances they are intended for installation in environments where there are aggressive chemical agents, oils and grease, and frequent jets of water or accidental shocks.

83354

83371

Functions

They ensure the control and local isolating of parts of the plant or utilities so as to enable intervention on electrical circuits or machines in total safety.
Each fuse carrier has a LED indicator device, which permits immediate checking on the state of the fuse.

Characteristics

■ Manufactured according to IEC 60947-3 with the following technical features:

Operating voltage	Rated current	AC22	AC23A
400 V	16A	20A	9,5 kW
	32A	32A	16 kW

■ the switch can be externally padlocked into position « 0 » and « 1 »
■ disconnect fuse carriers for CH10,3x38, complying with IEC 60269 fuse carriers each fitted with LED warning light:
❑ red and green LED off: socket unit with no power - switch open
❑ green LED: regular power supply to the phase
❑ red and green LED: signal of protection being triggered.
■ access lid to fuse curriers can be opened only with the switch in position “0”
■ Degree of protection, according to IEC 60529: IP65
■ Degree of protection against external mechanical impacts, according to EN 50102: IK10
■ Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
■ Materials:
❑ housing made of self-extinguishing engineering polymer
❑ RAL colour 7035
❑ screws, pins and springs made of stainless steel
■ connection terminals :
❑ captive screw
❑ maximum cross section of conductors: 10 mm^2
■ wall-mounted version:
❑ cable entry from the top
❑ complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG 21 cable gland
■ fuses not supplied

Code of PK Isoblock sockets with fuse carriers 10,3 x 38 and warning device

IP 65

rated current	number of sockets	type	rated voltage V			
			100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	B16	83351	83354	83357	
	3P+⏚	B16	83352	83355	83358	83361
	3P+N+⏚	B16	83353	83356	83359	83362
32A	2P+⏚	B16	83363	83366	83369	
	3P+⏚	B16	83364	83367	83370	83373
	3P+N+⏚	B16	83365	83368	83371	83374

PK Sockets with interlock switch
PK Isoblock
With DIN rail
Wall-mounted version

Thanks to their high performances they are intended for installation in environments where there are aggressive chemical agents, oils and grease, and frequent jets of water or accidental shocks.

Functions
They have a DIN rail for modular protection devices.

Characteristics
■ Manufactured according to IEC 60947-3 with the following technical features:

Operating voltage	Rated current	AC22	AC23A
400 V	16A	20A	9,5 kW
	32A	32A	16 kW
	63A	63A	30 kW

■ the switch can be externally padlocked into position « 0 » and « 1 »
■ compartement for modular devices fitted with symmetrical DIN rail, with opening of :
❑ 4,5 modules 18mm for 16 and 32A
❑ 6 modules 18mm for 32 and 63A
■ access lid to fuse curriers can be opened only with the switch in position “0”
■ Degree of protection, according to IEC 60529: IP65
■ Degree of protection against external mechanical impacts, according to EN 50102: IK10
■ Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
■ Materials :
❑ housing made of self-extinguishing engineering polymer
❑ RAL colour 7035
❑ screws, pins and springs made of stainless steel
■ connection terminals :
❑ captive screw
❑ maximum cross section of conductors:
❑ 16 and 32 A 10 mm²
❑ 63A 35 mm²
❑ wall-mounted version :
❑ cable entry from the top
❑ complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG 21 cable gland for 16A and 32A versions, PG 29 for 63A version

82754

82771

82783

Code of PK Isoblock sockets with DIN rail – 4,5 modules

IP 65

rated current	number of sockets	type	rated voltage V 100-130V	200-250V	380-415V	480-500V
16A	2P+⏚	B16	82751	82754	82757	
	3P+⏚	B16	82752	82755	82758	82761
	3P+N+⏚	B16	82753	82756	82759	82762
32A	2P+⏚	B16	83788	83791	83794	
	3P+⏚	B16	83789	83792	83795	83797
	3P+N+⏚	B16	83790	83793	83796	83798

Code of PK Isoblock sockets with DIN rail – 6 modules

IP 65

rated current	number of sockets	type	rated voltage V 100-130V	200-250V	380-415V	480-500V
32A	2P+⏚	B32/63	82763	82766	82769	
	3P+⏚	B32/63	82764	82767	82770	82773
	3P+N+⏚	B32/63	82765	82768	82771	82774
63A	2P+⏚	B32/63		82778		
	3P+⏚	B32/63	82776	82779	82782	82785
	3P+N+⏚	B32/63	82777	82780	82783	82786

PK sockets with interlocked switch
PK Isoblock
Sockets with safety transformer SELV
Wall-mounted version

For use either singly or in combination units by means of the PK Isoblock sectional panels, in environments where there are aggressive chemical agents, oils, grease, frequent, heavy jets of water and accidental shocks.

Functions
These enable powering of circuits with a voltage rating of 50V maximum, to protect users against direct and indirect contacts, in conformity with IEC364 standards.

Characteristics
- safety transformer with rated power of 160 VA under continuos use
- operating voltage 230/24V or 400/24V
- trasformer protected against short-circuit by CH10,3x38 the cylindrical fuses supplied
- power supply switch on the primary controlled by a special mechanism upon the insertion of the plug
- Degree of protection, according to IEC 60529: IP65
- Degree of protection against external mechanical impacts, according to EN 50102: IK10
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- The unit is rated as Class II according to IEC 60558-2-6
- Fitted with one or two very-low voltage sockets, 24V, 2P
- Materials :
  - housing made of self-extinguishing engineering polymer
  - RAL colour 7035
  - screws, pins and springs made of stainless steel
- Connection terminals:
  - Captive screws
  - Maximum cross section of conductors 6 mm^2
- Wall-mounted
  - complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG 21 cable glands

82061

82062

Code of PK Isoblock sockets with safety transformer SELV

IP 65

rated power	rated voltage primary	rated voltage secondary	number and type of sockets	Code
160 VA	**230 V**	**24 V**	1 x 16 A	**82061**
	400 V	**24 V**	1 x 16 A	**82063**
160 VA	**230 V**	**24 V**	2 x 16 A	**82062**
	400 V	**24 V**	2 x 16 A	**82064**

PK sockets with interlocked switch
PK Isoblock
Modular panels

For the installation of PK Isoblock series interlocked sockets in environments where there are aggressive chemical agents, oils and grease, frequent, heavy jets of water or accidental shocks

Functions
These enable wall-mounted fitting of sockets with interlock or safety transformers and are available in two versions:
– version with integrated box designed to enable power feeding and wiring distribution;
– version with control box designed to accommodate one or more modular protection devices fitted to the symmetrical DIN rail

Characteristics
- Degree of protection, according to IEC 60529: IP65
- Degree of protection against external mechanical impacts, according to EN 50102: IK10
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- Complete insulation characteristics in according with EN 60439-1
- Materials :
  - housing made of self-extinguishing engineering polymer
  - RAL colour 7035
  - Screws made of stainless steel
  - walls with knoch our loch for cable entry from the top and for association


83925


83926


83927

Code for modular panels with junction boxes

Dimensions H	L	P	type	number of sockets	Code
535	111	11 + 65	**B16**	1	**83925**
535	222	17 + 100	**2B16**	2	**83926**
535	151	17 + 100	**B32/63**	1	**83927**


83325


83326


83327

Code for modular panels with modular enclosures

Dimensions H	L	P	type	module 18 mm	dissipated power	number of sockes	Code
535	111	11 + 65	**B16**	4	9 watt	1	**83325**
535	222	17 + 100	**2B16**	10	14 watt	2	**83326**
535	151	17 + 100	**B32/63**	6	11 watt	1	**83327**

PK sockets with interlocked switch
PK Isoblock
Sockets with circuit breaker and electrical interlock

NEW

These are characterized by a thermal-magnetic circuit breaker, with or without earth-fault protection which is activated only when the plug is fully inserted in the socket. If the plug is removed while under load, the circuit breaker will trip automatically.

NEW

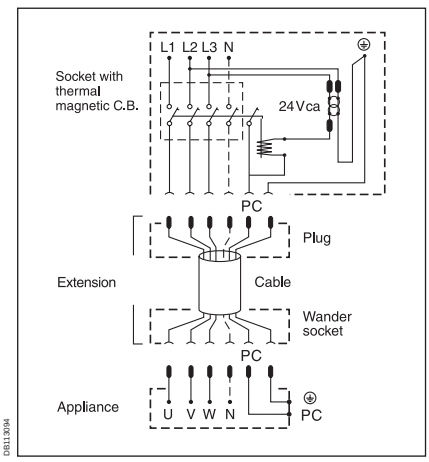
82482

Characteristics

- ■ Moulded case automatic thermal-magnetic circuit breaker, with or without differential relay
- ■ Rotary switch which can be externally padlocked into position “0” and “1”
- ■ Reset of the switch from the outside when triggered
- ■ Socket fitted with pilot contact for controlling the 24 V electrical interlock
- ■ Earth fault protection;
  - ❑ Sensitivity (IΔn); adjustable 0,03 - 0,3 - 1 - 3 - 10 A
  - ❑ Time delay adjustable 0 - 60 - 150 - 310 ms
- ■ Red warning light to signal tripping of earth fault protection:
- ■ Degree of protection, according to IEC 60529: IP65
- ■ Degree of protection against external mechanical impacts, according to EN 50102: IK08
- ■ Resistance to fire and abnormal heat, according to IEC 60695-2-1: 960°C (glow wire test)
- ■ Materials :
  - ❑ housing made of self-extinguishing engineering polymer
  - ❑ RAL colour 7035
  - ❑ Screw made of thermoplastic material
- ■ connection terminals :
  - ❑ captive screw
  - ❑ maximum cross section of conductors: 95 mm²
  - ❑ cable entry from the top
  - ❑ complete with thickness flange and PG 42 cable gland
  - ❑ terminal block guard at the circuit breaker entry

Circuit breaker characteristics

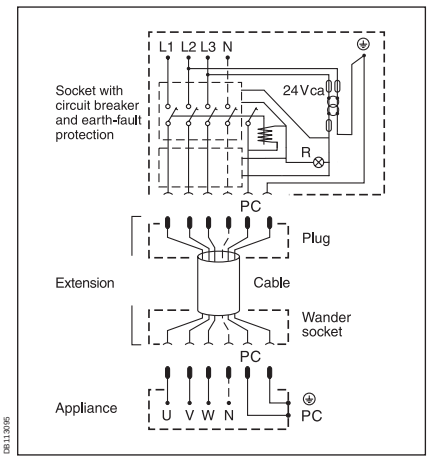
rated current (In)	tripping thresholds thermal (tr)	magnetic (tm)	ultimate breaking capacity (kA rms) 220/240V	380/415V	500V
63A	Adjustable	500 A	85	36	30
125A	0.8... 1 x In	1250 A	85	36	30



Code for interlocked socket with thermal-magnetic circuit breaker

IP 65

rated current (In)	poles	rated voltage 100-130V	200-250V	380-415V	480-500V
63A	3P+⏚		**82479**	**82482**	**82485**
	3P+N+⏚			**82483**	
125A	3P+⏚		**82491**	**82494**	**82497**
	3P+N+⏚			**82495**	



Code for interlocked socket with thermal-magnetic circuit breaker and earth fault protection

IP 65

rated current (In)	poles	rated voltage 100-130V	200-250V	380-415V	480-500V
63A	3P+⏚			**82432**	
	3P+N+⏚			**82433**	
125A	3P+⏚			**82444**	
	3P+N+⏚			**82445**	

PK sockets with interlocked switch
PK Isoblock
Accessories

Junction boxes

Characteristics

- Degree of protection, according to IEC 60529: IP55
- Degree of protection against external mechanical impacts, according to EN 50102: IK08
- Resistance to fire and abnormal heat, according to IEC 60695-2-1: 850°C (glow wire test)
- knockout holes for cable glans and connection accessories to sockets
- Materials :
  - housing made of self-extinguishing engineering polymer
  - RAL colour 7035
  - Screw head plugs
- supplied with :
  - caps for bottom screws


PB102267

Code for junction boxes IP55

Dimensions H	W	D	Number and type of cable entry	Code
75	110	65	4 x PG 21	**83963**
110	110	65	6 x PG 21	**83964**
150	110	100	6 x PG 21	**83962**
110	150	100	4 x PG 21 + 1 x PG21/29 + 1 x PG 29	**83965**
150	150	100	4 x PG 21 + 2 x PG 21/29	**83966**


PG146002

Code for connection accessories

PG thread cable glands

in accordance with DIN 46320
made of insulating material, grey RAL 7035 – complete with lock-nut

thread	cable diameter	connector diamètre	Code
PG 16	14 – 16 mm	23 mm	**83994**
PG 21	14 – 20 mm	28,5 mm	**83995**
PG 29	19 – 26 mm	37,5 mm	**83996**


PG146001

PG thread nipples

made of insulating material, grey RAL 7035 – complete with lock-nut, rubber packing ring for joining boxes, enclosures and sockets

thread	cable diameter	connector diamètre	Code
PG 16	14 – 16 mm	23 mm	**83985**
PG 21	14 – 20 mm	28,5 mm	**83986**
PG 29	19 – 26 mm	37,5 mm	**83987**


PB102268

Brass terminal blocks with regard to ground and neutral connections

description		Code
with holes	1 x 16 + 4 x 10 mm²	**83970**
	1 x 16 + 6 x 10 mm²	**83971**
	1 x 16 + 10 x 10 mm²	**83972**
	2 x 16 + 10 x 10 mm²	**83973**
	2 x 16 + 16 x 10 mm²	**83974**


PB102269

Terminal block supports

made of insulating material – suitable for brass terminal blocks

for enclosures	for terminal blocks	Code
83325	2 x 83970	**83975**
83326	2 x 83970 / 83971 / 1 x 83972 / 83970	**83976**
83327	All terminals	**83977**


PB102270

Brass terminal blocks complete with support

for PK Compact sockets enclosures

description		Code
with holes	1 x 16 + 4 x 10 mm²	**83980**

Kaedra system

P81I02271

Index

Kaedra system
General presentation

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
- ❑ Enclosures for modular devices with interface
- ❑ Interface enclosures
- ❑ Universal 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 constant 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 throught functional plaques.

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.

Kaedra system
Key points

Enclosures for sockets
These are available in versions for 1 to 8 sockets and include new modular opening, 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
These are available in versions for 2 to 72 modules and enable installation of all modular equipment up to 125A, as well as combinations with equipment other than the modular type, thanks to the chassis and separate modular panels.

Enclosures for modular devices with interface
These are available in versions for 12, 24 and 36 modules and, thanks to the specific plaques, enable installation of other control, protection, and indicator device equipment on the panel front as well as domestic or industrial PK sockets.
These devices are accessible at any time maintaining the other modular equipment totally protected, that means without opening the door.

Interface enclosures
These are combinable 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.

Universal enclosures
These are available in 5 different sizes and enable the construction of control boards with non-modular equipment. These enclosures can be associated with all the Kaedra series enclosures enabling the construction of complete banks.

Association

The modular size of the Kaedra system enclosures enables them to be quickly associated 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

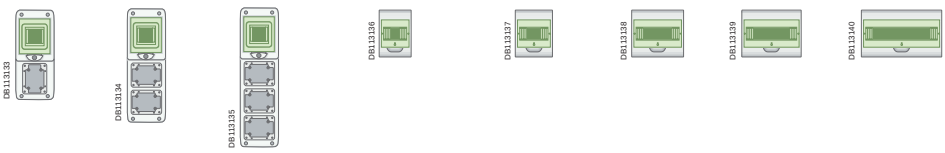
The Kaedra system enclosures, designed to accommodate modular devices, are equipped with an easily removable chassis to permit installation of equipment and wiring outside the board. This can be easily tourned up side down to provide wide space for incoming and outgoing wiring. It is also possible to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

Operating details

The Kaedra enclosures have been constructed in close collaboration with the 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 leggibility even after numerous operations.

Kaedra system
Selection guide

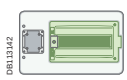
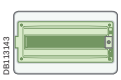
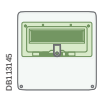
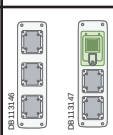
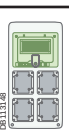
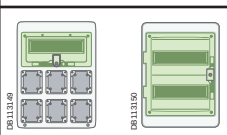
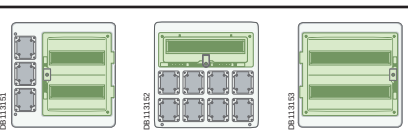
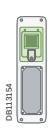
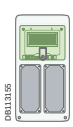
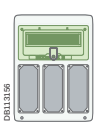
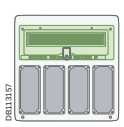
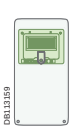
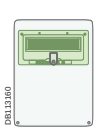
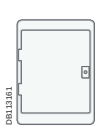
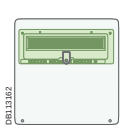
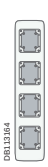
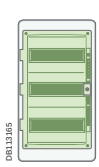
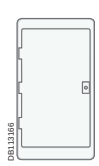
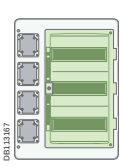
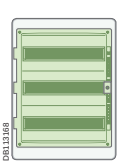
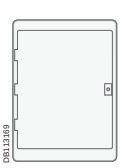
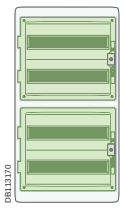
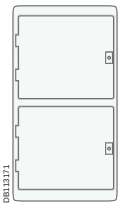
Watertight Mini-enclosures



Number of modules	1	4	4	2 / 3	4	6	8	12
Standard	13175	13176	13177	13975	13976	13977	13978	13979
With terminal blocks					13441	13442	13443	13444

Watertight enclosures

The modular dimension of Kaedra enclosures allows their combination vertically or horizontally.

mm	138	236	340	448
280				 
Number of modules			1 x 12	1 x 12	1 x 18
Standard			13981	13990	13982
With terminal blocks			13431	13438	13432
335			 	
Number of modules			12 + 1	12 + 1	
Standard			13180	13191	
460				
Number of modules	5	8	12 + 1	2 x 12	18 + 1	2 x 18
Standard	13178	13179	13181	13983	13991	13182	13984
With terminal blocks				13433	13439		13434
				
Number of modules	5	8	12 + 1	18 + 1
Standard	13185	13186	13187	13188
			 	 
Number of modules	5	8	12 + 1		18 + 1	
Standard	13189	13190	13192	13195	13193	13197
610			 	  
Number of modules			3 x 12		3 x 12	3 x 18	
Standard	13994		13985	13196	13986	13992	13198
With terminal blocks			13435		13436	13437	
842					 
Number of modules					4 x 18	
Standard					13987	13199
With terminal blocks					13437	

Kaedra system
Enclosures for sockets


PB102273

Functions
They are designed for the quick installation of PK sockets thanks to the specific opening which can be closed by special plaques. 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 60529 standards : IP 65
- ■ degree of protection against external, mechanical impacts, according to EN 50102 :IK09
- ■ resistance to fire and abnormal heat, according to IEC 60695-2-1 : 650°C
- ■ inferior and superior 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 association accessories M32
- ❑ Screws head plugs


PB102274

Code for Mini enclosures for PK sockets

Dimensions H W D	18 mm modules	Opening 65 x 85	Supplied plaques blank	Dissipated power	Code
248 x 98 x 98	4	1 vert.		10 watt	**13175**
310 x 98 x 98	4	2 horizont.	1	10 watt	**13176**
392 x 98 x 98	4	3 horizont.	1	10 watt	**13177**


PB102275

Code for enclosure for PK sockets

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


PB102276

Code for enclosure for PK Unika with interlocked switch

Dimensions H W D	18 mm Modules	Opening 103 x 225	Supplied plaques Blank	Dissipated power	Code
460 x 138 x 160	5	1		12 watt	**13185**
460 x 236 x 160	8	2	1	15 watt	**13186**
460 x 340 x 160	12+1	3	1	28 watt	**13187**
460 x 448 x 160	18+1	4	1	39 watt	**13188**


PB102277

Code for universal enclosure for sockets

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

Kaedra system
Enclosures for modular device 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 plaques. 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 plaques, and to permit better internal wiring circulation.

Characteristics
- degree of protection, according to IEC 60529 standards : IP 65
- degree of protection against external, mechanical impacts, according to EN 50102: IK09
- resistance to fire and abnormal heat, according to IEC 60695-2-1 : 650°C
- inferior and superior 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 association accessories M32
  - Screws head plugs

Code for enclosures for modular devices with interface

Dimensions H W D	18 mm Modules	Opening 90 x 100	Suppllied plaques Blank	Intermediate	Dissipated power	Code
280 x 448 x 160	12	1	1	1	28 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**

Code for enclosures with terminal blocks

Dimensions H W D	18 mm Modules	Opening 90 x 100	Suppllied plaques Blank	Intermediate	Dissipated power	Code
280 x 448 x 160	12	1	1	1	30 watt	**13438**
460 x 448 x 160	24	3	3	1	37 watt	**13439**
610 x 448 x 160	36	4	4	1	50 watt	**13440**

Code for interface enclosures

Dimensions H W D	Opening 90 x 100	Suppllied plaques Blank	Intermediate	Code
460 x 138 x 125	3	3	1	**13993**
610 x 138 x 125	4	4	1	**13994**

Kaedra system
Enclosures for modular devices

Functions

The enclosures for modular devices are designed for the installation of devices for distribution and control.The enclosures also include a removable chassis with on-centre variables and reversible front modular panels.

Characteristics

- degree of protection, according to IEC 60529 standards : IP 65
- degree of protection against external, mechanical impacts, according to EN 50102: IK09
- resistance to fire and abnormal heat, according to IEC 60695-2-1 : 650°C
- inferior and superior 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 association accessories M32
  - Screws head plugs

Code for Mini enclosure for modular devices

Dimensions H W D	18 mm Modules	Dissipated power	Code
150 x 80 x 98	2/3	6 watt	**13975**
200 x 123 x 112	4	10 watt	**13976**
200 x 159 x 112	6	11 watt	**13977**
200 x 195 x 112	8	15 watt	**13978**
200 x 267 x 112	12	19 watt	**13979**

Code for Mini enclosure with terminal blocks

Dimensions H W D	18 mm Modules	Dissipated power	Code
200 x 123 x 112	4	10 watt	**13441**
200 x 159 x 112	6	11 watt	**13442**
200 x 195 x 112	8	15 watt	**13443**
200 x 267 x 112	12	19 watt	**13444**

Code for enclosures for modular devices

Dimensions H W D	18 mm Modules		Dissipated power	Code
280 x 340 x 160	12	1 x 12	24 watt	**13981**
280 x 448 x 160	18	1 x 18	34 watt	**13982**
460 x 340 x 160	24	2 x 12	34 watt	**13983**
460 x 448 x 160	36	2 x 18	47 watt	**13984**
610 x 340 x 160	36	3 x 12	46 watt	**13985**
610 x 448 x 160	54	3 x 18	65 watt	**13986**
842 x 448 x 160	72	4 x 18	89 watt	**13987**

Code for enclosures with terminal blocks

Dimensions H W D	18 mm Modules		Dissipated power	Code
280 x 340 x 160	12	1 x 12	24 watt	**13431**
280 x 448 x 160	18	1 x 18	34 watt	**13432**
460 x 340 x 160	24	2 x 12	34 watt	**13433**
460 x 448 x 160	36	2 x 18	47 watt	**13434**
610 x 340 x 160	36	3 x 12	46 watt	**13435**
610 x 448 x 160	54	3 x 18	65 watt	**13436**
842 x 448 x 160	72	4 x 18	89 watt	**13437**

Kaedra system
Universal enclosures

Functions
The universal enclosures are intended for the installation of non-modular devices fitted on universal rear panels and usually supplied with opaque door.

Characteristics
- degree of protection, according to IEC 60529 standards: IP 65
- degree of protection against external, mechanical impacts, according to EN 50102: IK09
- resistance to fire and abnormal heat, according to IEC 60695-2-1: 650°C
- inferior and superior 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 association accessories M32

Code for universal enclosures

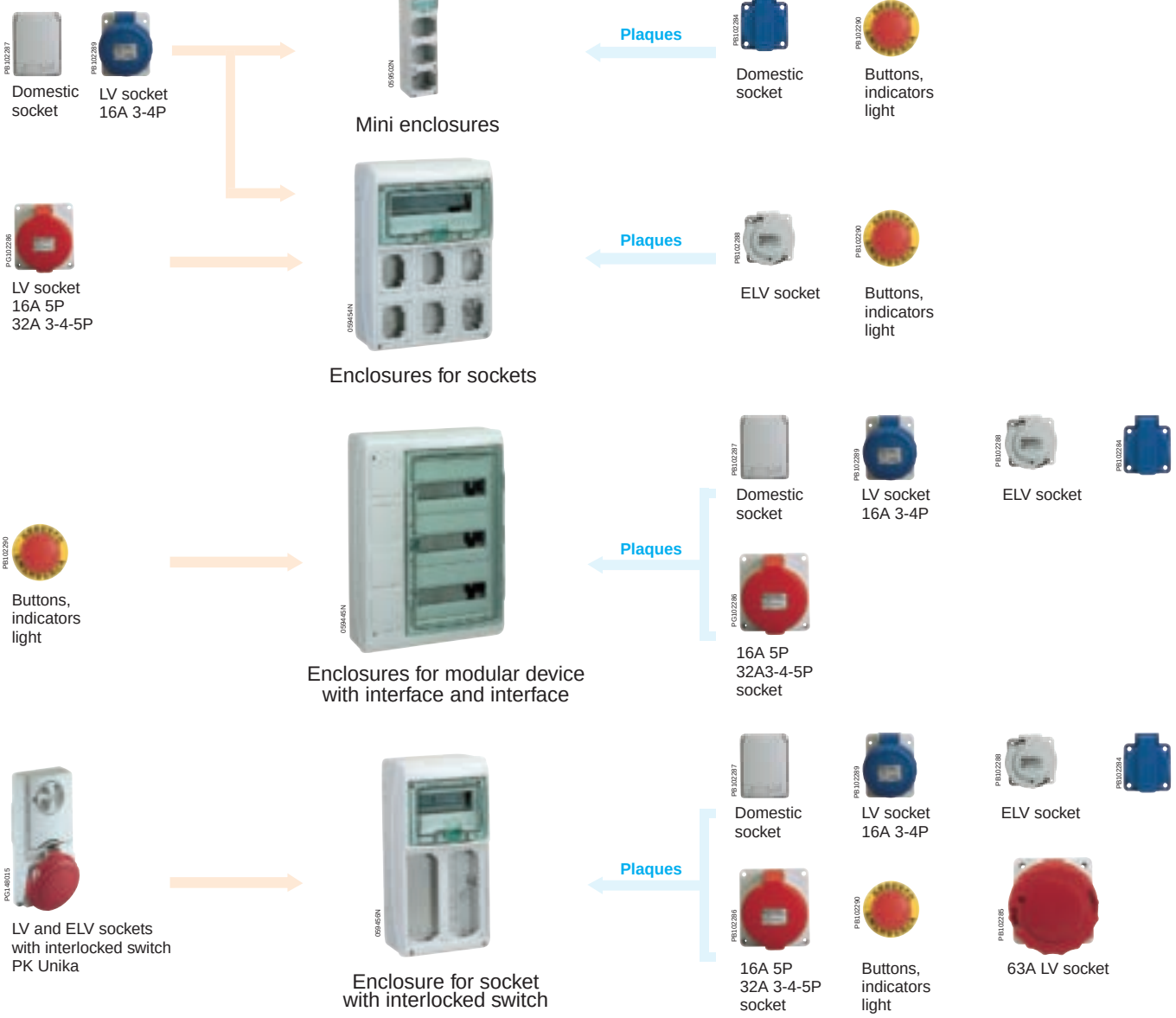
Dimensions H W D	Dissipated power	Code
460 x 340 x 160	34 watt	**13195**
460 x 448 x 160	46 watt	**13196**
610 x 340 x 160	47 watt	**13197**
610 x 448 x 160	65 watt	**13198**
842 x 448 x 160	89 watt	**13199**

Code for auxiliary elements

Description	Code
Plain modular panel to replace a modular panel	
for 12 modules width	**13944**
for 18 modules width	**13945**

Kaedra system
Fitting system

Direct mounting



Indirect mounting

These products can be mounted on Kaedra trough the use of **plaques**

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

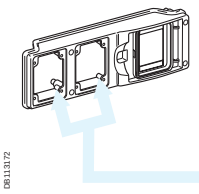
Kaedra for modular device with interface have the plaque 13138 already mounted on each opening.

The standard openings

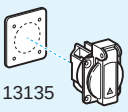
All enclosures for sockets and enclosures for interface have different openings for functional plaques. There are three standard dimensions:

- ❑ 65 x 85 mm, for direct fixing of
  - PK angled sockets of 16A 2P+E and 3P+E or of domestic sockets.
- ❑ 90 x 100 mm, for direct fixing of PK PratiKa
  - In the enclosures for sockets, these opening are normally delivered with intermediate plaques code 13136.
- ❑ 103 x 225 mm, for direct fixing of
  - PK Unika sockets with interlocked switch and relative functional plaques.

Indirect mounting

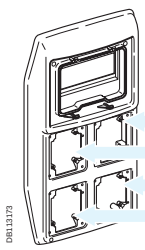


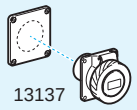
Mini enclosures



13135

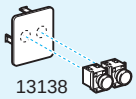
Domestic socket
50 x 50 mm





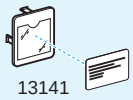
13137

ELV socket
65 x 65 mm



13138

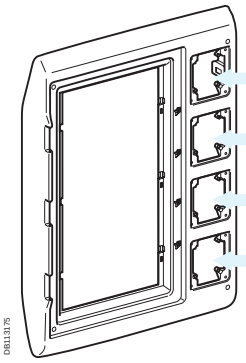
Buttons,
indicators light
22 mm diam.

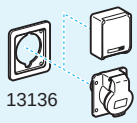


13141

Identification
label

Enclosures for sockets

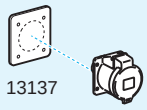




13136

Domestic socket
65 x 85 mm

LV socket
65 x 85 mm



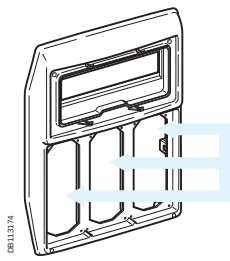
13137

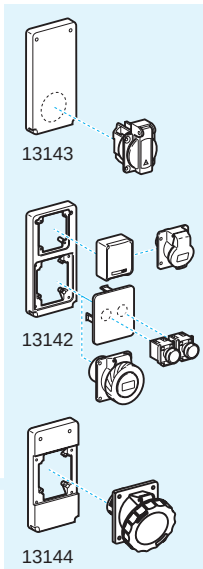
ELV sockets
65 x 65 mm

13141

Identification
label

Enclosures for modular
devices with interface
and interfaces





13143

Domestic
socket
50 x 50 mm

13142

Domestic and
LV socket
65 x 85 mm

Buttons,
indicators light
22 mm diam.

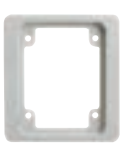
LV socket
90 x 100 mm

13144

63A LV socket
100 x 107 mm

Enclosure for socket
with interlocked switch

13135



13136

13138

13137

13142

13143

13144

Code of functional plaques

Denomination	Description	Code
Plaque for opening	**65 x 85**	
screw fixing	blank – marked for 1 socket 50 x 50	**13135**
Plaque for opening	**90 x 100**	
screw fixing	blank – marked for 1 socket 65 x 65	**13137**
clip fixing	blank – marked for button (1 or 2 x diam.22,2 - 4 x diam. 16)	**13138**
	with identification label	**13141**
clip fixing	intermediate – with opening 65 x 85	**13136**
Interface Kit for enclosures		
with interface and interfaces	**90 x 100**	
Clip fixing	for switch INS 63/80A	**13139**
	for modular devices 4P	**13140**
Plaque for opening	**103 x 225**	
screw fixing	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 x100	**13142**
	with 1 opening 100 x 107 for sockets and plugs 63A	**13144**

Kaedra system
Accessories


PB102294

Code of supports

These products are used to support the Kaedra enclosures in order to have them portable.
Each support is furnished with:
- 4 screws M6x14 to fix the enclosure
- 4 plain washer
- 4 elastic washer

Dimensions H W D	Description			Code
700 x 360 x 410	for enclosures of	8 modules:	13179-13186-13190	**10500**
700 x 450 x 410	for enclosures of	12 modules:	13181-13187-13192-13433 13180-13191-13195-13983	**10501**
700 x 560 x 410	for enclosures of	18 modules:	13182-13188-13193-13147 13991-13439-13984-13434	**10502**


PB102295


PB102296

Code of accessories for the installation

Denomination	Description		Code
Mounting plate for non-modular devices	Telequick – h 150 mm width 12 modules		**13941**
Inclinated 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**
Inclinated 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 clipsed on the support or on bottom by means of dove tile	with 80 mm	4 hole (2 x 10 + 2 x 16)	**13575**
to be clipsed on the support or screw fixed on the bottom	width 85 mm	8 hole (4 x 10 + 4 x 16)	**13576**
	width 202 mm	16 hole (8 x 10 + 8 x 16)	**13577**
	width 202 mm	22 hole (11 x 10 + 11 x 16)	**13578**
	width 202 mm	32 hole (16 x + 16 x 16)	**13579**
Protective cover the cover is clipsed 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**

Kaedra system
Accessories


PG14900Z

Code of accessories for enclosures installation

Denomination	Description	Code
Association kit M32		
	2 nipples + 2 nuts	**13934**
Wall-mounting brackets kit to 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 250 mm	**13941**
Fear-lead		
	sachet	**14190**
PG thread cable glands in accordance with DIN 46320 – grey RAL7035 – complete with lock-nut		
	PG9 for cable 7 – 9 mm	**83991**
	PG11 9 – 11 mm	**83992**
	PG13,5 9 – 12 mm	**83993**
	PG16 10 – 13 mm	**83994**
	PG21 14 – 17 mm	**83995**
	PG29 16 – 26 mm	**83996**
	PG36 28 – 36 mm	**83997**
	PG42 30 – 38 mm	**83998**
	PG48 40 – 44 mm	**83999**


059469N

Accessories for the finish of enclosures

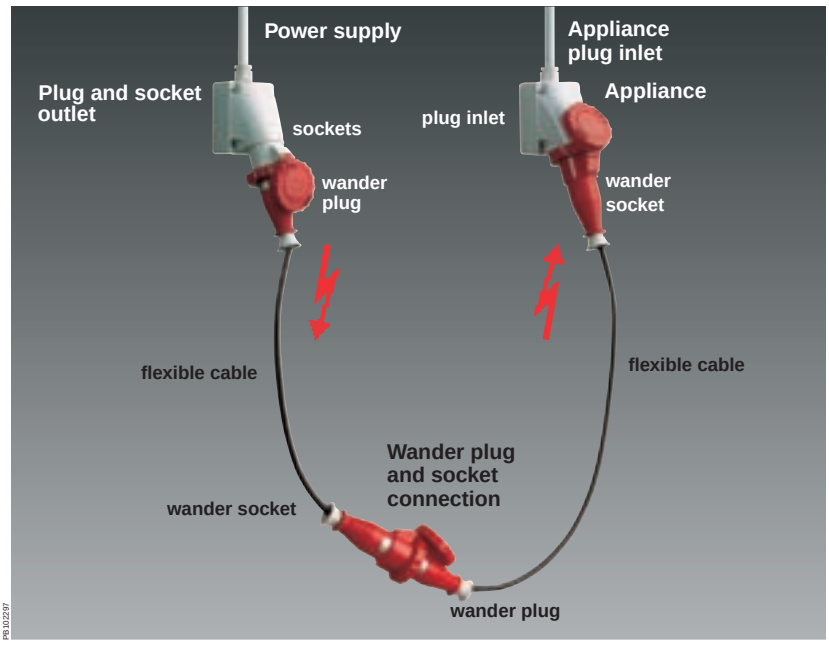
Denomination	Description	Code
Symbole plate ordinary		
	set of 10	**13735**
special		
	set of 10	**13736**
Label support sheet to be printed by Sismarker		
	set of 10	**13260**

Technical guide

Index

Industrial-type plugs and sockets
General information

The catalogue includes a vast range of plugs and sockets designed mainly for industrial use, both indoor and outdoor, where the ambient temperature does not normally exceed 40 °C. Thanks to the manufacturing characteristics and to the use of materials with superior performance and resistance to chemical and environmental agents, these devices are widely used also in building sites and in other sectors, like workshops, agriculture and offices.
In the case of use in special environments, for example on ships, or in areas with explosion hazards, special characteristics can be required.



Reference standards

The standards, from a point of view of dimensions and performance, for this family of products are defined at an international level and included in the European standards:

IEC 60309-1
EN 60309-1

Plugs and sockets for industrial use.
Part 1: General provisions.

IEC 6060309-2
EN 60309-2

Plugs and sockets for industrial use.
Part 2: Provisions of dimensional interchangeability for plugs and sockets with cylindrical pins and sleeves

Definitions

The various applications of plugs and sockets include the following devices:

Plug and socket outlet: Device which permits the connection of a flexible cable to a power supply installation: it comprises a socket and a plug.

Socket: Part which is to be installed in the power supply installation or incorporated in switchgear and controlgear.

Plug: Part which is securely connected, or designed to be connected, to a flexible cable connected to an appliance or to a connector.

Wander plug and socket connection: Device which permits the connection of two flexible cables: it comprises a wander socket and a plug.

Wander plug: Part which is securely connected, or designed to be connected, to a power supply flexible cable.

Appliance plug inlet: Device which permits the connection of a flexible cable to an appliance: it comprises a wander socket a plug inlet.

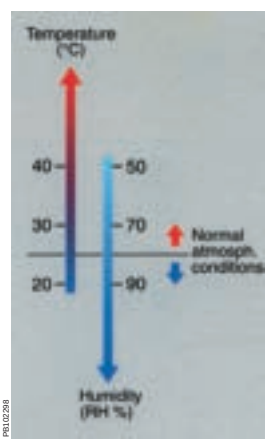
Plug inlet: Incorporated part fixed, or designed to be fixed, to an appliance.

Operating conditions

The Standards IEC 60947-1, EN 60947-1, “Low-voltage switchgear and controlgear: General rules”, define the normal operating conditions for electrical and electronic devices. Such standards are generally applicable to devices operating within the voltage limit of up to 1,000 V for alternated current or 1,500 V for direct current, unless otherwise required by the specific product standard.

Ambient temperature
Maximum temperature: +40 °C with average temperature during 24 hours not exceeding +35 °C;
lower temperature limit: -25 °C.

Altitude
Up to 2,000 m a.s.l.



Atmospheric conditions

Humidity
Relative humidity not exceeding 50% with temperature of +40 °C. A higher relative humidity is allowed with a lower temperature; for example, 90% with +20 °C (see drawing).

Level of environmental pollution
The following levels of pollution are considered for electrical and electronic devices:

The normal pollution level is:

for domestic or similar devices: **level 2**

for industrial type applications: **level 3**

level 1
there is no pollution or there may be dry non-conductive pollution;

level 2
normally the devices can be used in the presence of non-conductive polluting substances; occasionally there may be temporary conductivity caused by condensation;

level 3
presence of conductive pollution or dry non-conductive pollution, which become conductive with condensation;

level 4
the pollution causes persistent and high conductivity; such pollution is caused for example by conductive dust, rain or snow.

The pollution level is a conventional number based on the amount of conductive or hygroscopic dust, ionised gas or salts, on the relative humidity and on the frequency which causes absorption or condensation of humidity, a phenomenon which involves a reduction of dielectric strength and/or surface resistivity. The pollution level referred to is the one occurring in the immediate vicinity to the air and surface between elements with different potential.

The products included in this catalogue can be used also in environments with particularly severe conditions. Contact us for any further information.

Industrial-type plugs and sockets
General information

Principal provisions

The standards cover the use of plugs and sockets with either alternate current, frequency of up to 500 Hz, or direct current, divided into two main classes:

- extra-low voltage plugs and sockets, with operating voltage of up to 50 V.
- low voltage plugs and sockets, with operating voltage of 50 V to 690 V.

The standards cover rated currents of 16 and 32 A with 2P and 3P configurations for extra-low voltage, and rated currents of 16, 32, 63 and 125 A with 2P+⏚, 3P+⏚ and 3P+N+⏚ for low voltage.

There is a specific model for each use, with different rated characteristics of voltage, frequency, polarity and application, incorporating safety hindrances which make it impossible to insert any plug in a socket which is not the exact corresponding type.
Non-interchangeability is ensured by compliance with the different standardised dimension tables which indicate different ground contact positions in relation to a standard fixed reference of the connection.

Low voltage versions > 50 V

In the low voltage versions non-interchangeability is ensured by means of two elements:

- a guide spline on the socket which matches with a corresponding nib on the plug.
- a ground contact larger than the other contacts, in a different clock position according to the rated operating characteristics.

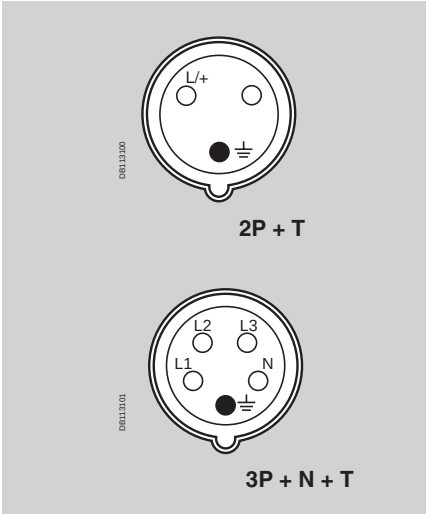
The clock position (h) of the ground contact is checked by observing, with the socket viewed from the front, the position of the ground contact in relation to the main keyway (guide spline), always positioned at 6 o'clock.

Extra-low voltage versions < 50 V

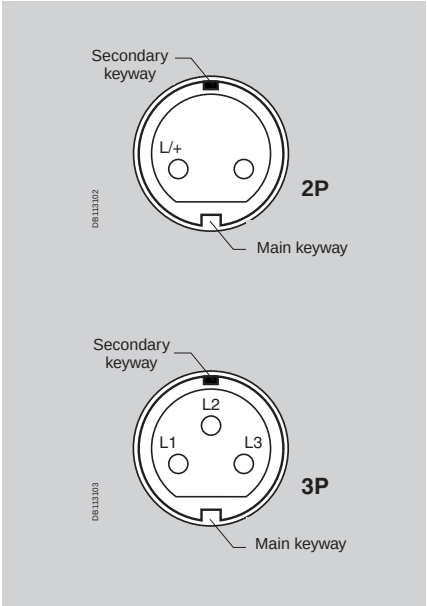
Also for these versions, with no ground contact, non-interchangeability is ensured by means of two reference elements:

- a guide spline on the plug which matches with a corresponding nib on the socket, always at a fixed 6 o'clock position.
- a secondary keyway, also this a spline on the plug to which corresponds a nib on the socket, at different clock positions according to the operating characteristics.

The clock position (h) of the secondary keyway is checked by observing, with the socket viewed from the front, the position of the nib in relation to the main keyway, always positioned at 6 o'clock.



Low voltage socket



Extra-low voltage socket

Coded colours

For easy identification of the operating voltage, the standard indicates conventional coded colours which may involve the entire device or only one part (e.g., lift cover, ring, etc.)

Rated operating voltage V	Colour (1)
de 10 à 25	violet
de 40 à 50	white
de 100 à 130	yellow
de 200 à 250	blue
de 380 à 480	red
de 500 à 690	black

1) : For a frequency above 60 Hz and up to 500 Hz included, the green colour can be used, if necessary, in conjunction with the colour of the rated operating voltage.

Clock reference

The range comprises all versions covered by the standards, including the more specific ones.
Although the catalogue covers only some standard models, it is possible to have all the different clock positions specified by the standard; the following are some of the positions for this range:

Application		Clock position ground contact	
Common use		h	6
Refrigerated containers		h	3
marines, wharf and ship installations		h	11
power supply through isol. transformer (TST)		h	12
direct current	50 to 250 V	h	3
	above 250 V	h	8
Hight-frequency	100 to 300 Hz	h	10
	above 300 to 500 Hz	h	2
special voltage:	100 to 130 V	h	4
	480 to 500 V	h	7
	600 to 690 V	h	5

Possible variations are indicated in the table at Page 86.

Industrial-type plugs and sockets
General information

Summary table of identification and interchangeability for industrial-type plugs and sockets included in the different systems covered by the IEC 60309-2 standard

LOW VOLTAGE - above 50 V up to 690 V

2 P+⏚					3 P+⏚					3 P+N+⏚				
FREQ. (Hz)	RATED VOLTAGE Un (V)	SOCKET'S FRONT VIEW OF EARTH CONTACT POSITION (1) 16 and 32A	63 and 125A		FREQ. (Hz)	RATED VOLTAGE Un (V)	SOCKET'S FRONT VIEW OF EARTH CONTACT POSITION (1) 16 and 32A	63 and 125A		FREQ. (Hz)	RATED VOLTAGE Un (V)	SOCKET'S FRONT VIEW OF EARTH CONTACT POSITION (1) 16 and 32A	63 and 125A	
50 and 60	100-130	4 h	4 h		50 and 60	100-130	4 h	4 h		50 and 60	57/100-75/130	4 h	4 h	
	200-250	6 h	6 h			200-250	9 h	9 h			120/208-144/250	9 h	9 h	
60	277	5 h	5 h			380-415	6 h	6 h			200/346-240-415	6 h	6 h	
	380-415	9 h	9 h			480-500	7 h	7 h			277/480-288/500	7 h	7 h	
50 and 60	480-500	7 h	7 h			600-690	5 h	5 h			347/600-400/690	5 h	5 h	
	Supply by isolating transformer	12 h	12 h	 (3)		Supply by isolating transformer	12 h	12 h	 (5)					
100-300 included	more than 50	–	–		60	440-460 (2)	11 h	11 h		60	250/440-265/460	11 h	11 h	
301-500 included	more than 50	2 h	–		50 60	380-440 (4)	3 h	–		50 60	220/380-250/440 (4)	3 h	–	
DC	50-250 included	3 h	3 h	 (3)	100-300 included	more than 50	10 h	–		100-300 included	more than 50	–	–	
	more than 250	8 h	8 h	 (3)	301-500 included	more than 50	2 h	–		301-500 included	more than 50	2 h	–	
					For all other rated voltage and/or frequences that are not included in the above configuration							1 h	1 h	

EXTRA-LOW VOLTAGE - UP TO 50 V

FREQ. (Hz)	RATED OPERATING VOLTAGE (V)	POSITION OF SECONDARY KEYWAY (5) 16 and 32A	2P	3P
50 and 60	20-25	without keyway		
50 and 60	40-50	12 h		
100 to 200 included	20-25 and 40-50	4 h		
300		2 h		
400		3 h		
401 to 500 included		11 h		
direct current	20-25 and 40-50	10 h		

NOTES

(1) The ground contact position is in relation to the keyway. The table indicates only the values for series I (16 - 32 - 63 - 125 A); however the devices can also be used in accordance with the values of series II (20 - 30 - 60 - 100 A).
(2) Mainly for installation on ships. The positions indicated by a dash (-) are not standardised.
(3) Colour according to voltage.
(4) For refrigerated containers only (standardised ISO).
(5) The position of the secondary keyway is in relation to the main keyway.

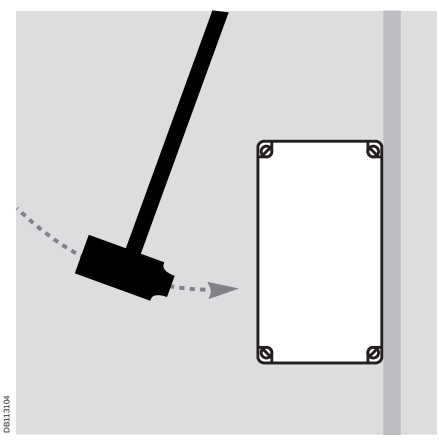
Technical data
Degree of protection

Degree of protection

The standard classifies and codifies a great number of external influences to which an electrical system may be subjected: presence of water, solid objects, risk of impacts, vibrations, presence of corrosive substances, etc.
These situations can affect electrical components with a variable intensity depending on the characteristics of the system: presence of water, for example, can be either some drops of water falling or total immersion.

Degree of protection IP

The standard IEC 60529 (EN 60529) indicates, by means of the IP code, the degree of protection for electrical devices against access to energised parts and against the entry of water and of foreign solid objects.
This standard does not consider the protection against the risk of explosion or environmental situations like humidity, corrosive vapours, moulds or insects.
The IP code is composed of 2 characteristic digits and can be expanded by an additional letter if the protection of people against access to energised parts is greater than the one indicated by the first digit.
Another supplementary letter indicates additional information on the protection of material.
The table at Page 88 indicates the classification criteria of the IP code.



Remarks

The degree of protection IP must always be read digit by digit and not as a whole. For example, an enclosure with a degree of protection IP 31 is suitable for an environment that requires at least a degree of protection IP 21. In this case a device with degree of protection IP 30 cannot be used.
Considering the fact that the presence of water on devices (panels) has in any event a negative effect (infiltration, corrosion, etc.), it will be advisable that all devices installed outdoor be fitted with a protective roof, and possibly with side screens.
The degree of protection indicated by the manufacturer is in general applicable to the conditions indicated in the catalogue. However, only adequate assembly, installation and maintenance will guarantee the original degree of protection.

Degree of protection against mechanical impacts IK

The standard EN 50102 defines the degree of protection against mechanical impacts indicated with the letters IK, followed by a number. The following table indicates the impact values in joules corresponding to each code.

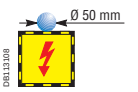
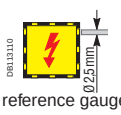
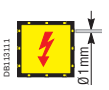
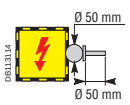
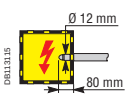
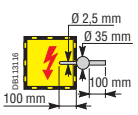
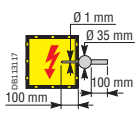
Degree of protection against mechanical impacts IK in accordance with standard EN 50102

IK code	impact energy	IK code	Impact energy
00	not protected	**06**	1 Joule
01	0,15 Joule	**07**	2 Joule
02	0,2 Joule	**08**	5 Joule
03	0,35 Joule	**09**	10 Joule
04	0,5 Joule	**10**	20 Joule
05	0,7 Joule		

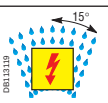
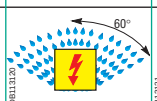
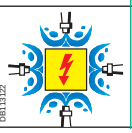
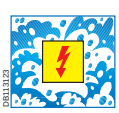
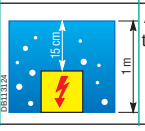
Technical data
Degree of protection IP

Degree of protection IP in accordance to IEC 60529

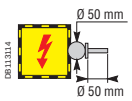
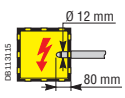
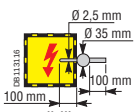
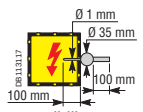
1st CHARACTERISTIC DIGIT: Protection against the entry of foreign objects and against access to dangerous parts

meaning	0	1	2	3	4	5	6
Protection of the enclosure against the entry of		Solid objects with dimensions greater than 50 mm	Solid objects with dimensions greater than12,5 mm	Solid objects with dimensions greater than 2,5 mm	Solid objects with dimensions greater than 1 mm	Harmful amount of dust Talcum powder	Dust (totally protected) Talcum powder
Means of test		 reference gauge Ø 50 mm	 reference gauge Ø 12,5 mm	 reference gauge Ø 2,5 mm	 reference gauge Ø 1 mm	 talcum powder	 talcum powder
Protection of person against access with		back of hand	finger	tool	wire		
Means of test		 accessibility gauge Ø 50 mm	 articulated test finger	 accessibility gauge Ø 2,5 mm	 accessibility gauge Ø 1 mm		

2nd CHARACTERISTIC DIGIT: Protection against the infiltration of water

meaning	0	1	2	3	4	5	6	7	8
Protection of the enclosure against the harmful effect of		Water drops falling vertically	Water drops falling vertically with an angle of 15° from vertical	Rain	Splashes of water	Jets of water	Strong jets of water	Temporary immersion	Continuous immersion
Means of test									Agreed between the manufacturer and the user, but stricter than 7

OPTIONAL LETTERS

ADDITIONAL LETTER*				
meaning	A	B	C	D
Protection of person against access with	Back of hand	Finger	Tool	Wire
Means of test	 accessibility gauge Ø 50 mm	 articulated test finger	 accessibility gauge Ø 2,5 mm x100 mm	 accessibility gauge Ø 1 mm x100 mm

Used only if:
– the effective protection against access to dangerous parts is greater than the one indicated by the first characteristic digit.
– only the protection against access to dangerous parts is indicated and the first characteristic digit is then replaced by an X.

SUPPLEMENTARY LETTER	
Supplementary informations for the protection of material	
H	High voltage devices
M	Tested against the harmful effects of water infiltration when the mobile parts of the device are moving.
S	Tested against the harmful effects of water infiltration when the mobile parts of the device are not moving.
W	Suitable for use in specified atmospheric conditions and provided with additional measures and procedures.

EXAMPLE OF FULL APPLICATION OF THE IP CODE:

PROTECTED AGAINST THE ENTRY OF SOLID OBJECTS LARGER THAN 2.5 MM — PROTECTED AGAINST ACCESS WITH A WIRE

IP 3 4 D W

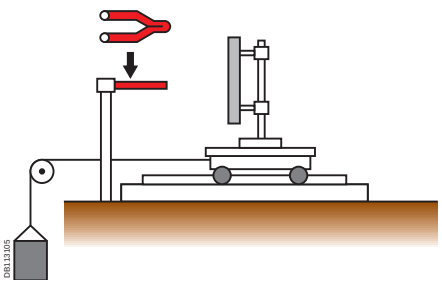
PROTECTED AGAINST THE EFFECTS OF SPLASHING WATER — SUITABLE FOR USE IN SPECIFIED ATMOSPHERIC CONDITIONS

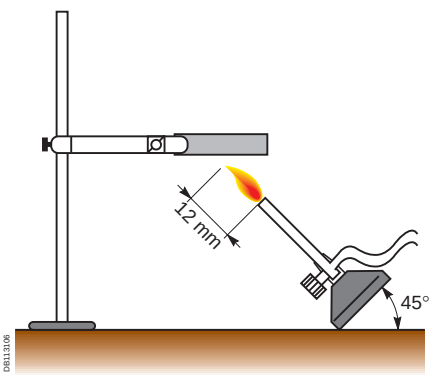
Technical data
Behaviour to abnormal heat and to fire

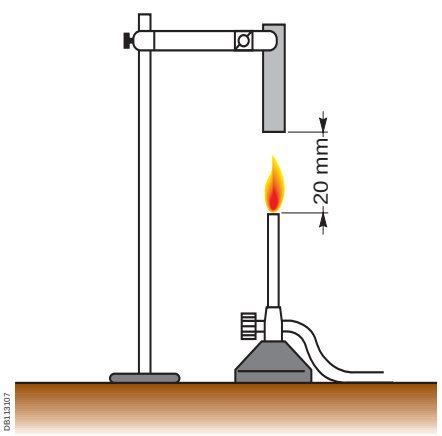
Self-extinguishing characteristics and behaviour to abnormal heat and to fire

The assessment index for the behaviour to fire of components made of organic material is defined by the different product standards and generally refer to three different test methods.

But des essais	Résultat des essais	Conditions des essais
Glow-wire test in accordance with IEC 60695-2-11		
Simulate the thermal stress which may be produced by heat or ignition sources (incandescent elements or overloaded resistors for short periods) to be able to assess the danger of starting a fire.	Any flame must stop within 30 sec after removing the incandescent wire TEST TEMPERATURES ❏ 650 °C ❏ 750 °C ❏ 850 °C ❏ 960 °C Falling burning drops do not set fire to the tissue paper	**Heat sources** 4 mm diameter incandescent wire **Duration of the test** Wire applied for 30 sec. **Characteristic elements** Extinguishing time of the flame
Flame with needle test in accordance with IEC 60695-2-12		
Simulate the effect of small flames which may occur in a malfunction condition within the products with the aim of judge the risk of fire.	❏ the sample does not catch fire ❏ the flame and the incandescent particles do not propagate fire ❏ the duration of combustion is less than 30 sec after removing the Bunsen burner	**Heat sources** Flame from a Bunsen burner **Duration of the test** Flame applied for 5, 10, 20, 30, 60, 120 sec according to the specific standard **Characteristic elements** The degree of severity: flame application time (AT)
UL method - UNDERWRITERS LABORATORIES in accordance with UL 94		
Supply a classification of the various behaviours which the materials may after contact with the flame from a Bunsen burner	❏ V0 if the specimen burns on average for less than 5 sec before self-extinguishing ❏ V1 if it burns on average for less than 25 sec. ❏ V2 if it burns for less than 25 sec with incandescent drips ❏ HB if it burns for more than 25 sec (specimen horizontal and combustion velocity less than 38 mm/min) Assimilated to ASTM D-635	**Heat sources** Flame from a Bunsen burner **Duration of the test** Flame applied for 10 sec twice in a row **Characteristic elements** Duration of combustion







Technical data
Behaviour to chemical agents

Behaviour to chemical agents

The indications stated below are applicable to the conditions where the ambient temperature does not exceed 40 °C and the mechanical stress is not so concentrated as to cause permanent surface deformations.
The engineering polymers used for our products ensure optimum behaviour of the finished products to chemical and atmospheric agents.

Should such products be used in environments with a particularly high concentration of acids, bases, oils, it will advisable to contact our Technical Department for a better solution to the problem.
In any case, the series of products highlighted with blue are suitable for use in particularly aggressive environments, characterised by strong concentration of oils, bases and acids.

LEGEND: R resistant; RL limited resistance; NR not resistant

Product series	H_2O	saline solution	ACIDS conc.	ACIDS diluted	BASES conc.	BASES diluted	SOLVENTS hexane	SOLVENTS benzene	SOLVENTS acetone	OIL absol. ethyl alcohol	OIL silicone	OIL mineral	OIL veget. oil	OIL animal fat	OIL synthetic grease	animal organic solution	FUEL unleaded premium	FUEL premium	FUEL diesel	ammonia
PK low and extra-low voltage																				
plugs and sockets	R	R	RL	R	RL	R	R	RL	RL	R	R	R	R	R	R	R	RL	RL	R	R
domestic sockets	R	R	RL	R	RL	R	R	RL	RL	R	R	R	R	R	R	R	RL	RL	R	R
schuko sockets	R	RL	RL	R	RL	R	R	NR	NR	R	R	NR	NR	NR	NR	NR	NR	NR	NR	NR
PK Unika																				
sockets with interlock switch	R	R	NR	R	RL	R	NR	NR	NR	NR	R	RL	RL	NR	RL	RL	NR	NR	NR	RL
modular bases	R	R	NR	R	RL	R	NR	NR	NR	NR	R	RL	RL	NR	RL	RL	NR	NR	NR	RL
PK Isoblock																				
sockets with interlock switch	R	R	RL	R	RL	R	R	RL	RL	R	R	R	R	R	R	R	RL	RL	R	R
modular panels	R	R	RL	R	RL	R	R	RL	RL	R	R	R	R	R	R	R	RL	RL	R	R
junction boxes	R	NR	RL	R	RL	R	R	NR	NR	R	R	RL	RL	NR	NR	RL	NR	NR	NR	NR
Kaedra system																				
enclosures	R	R	RL	R	RL	R	NR	NR	NR	R	R	RL	RL	NR	RL	NR	NR	NR	NR	RL

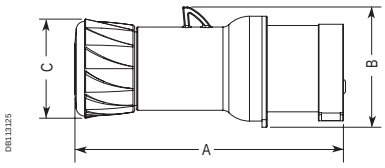
Dimensions

Index

PK plugs and sockets
low voltage
Wander plugs and sockets
PK PratiKa and PK

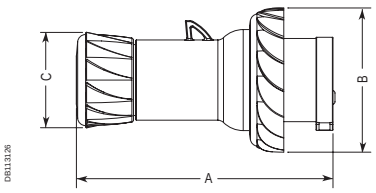
Plugs

IP 44

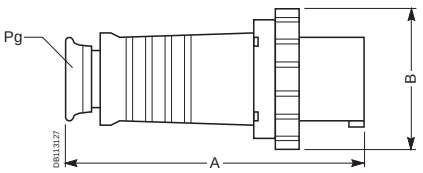


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	129	139	142	152	152	160
B	59	65	74	76	76	86
C	48	48	58	58	58	58

IP 67



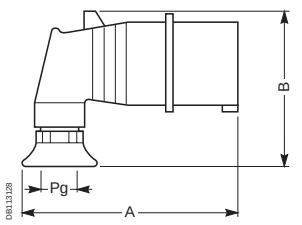
Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	129	139	142	152	152	160
B	73	81	89	95	95	102
C	48	48	58	58	58	58



Dim.	63 A			125 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	265	265	265	325	325	325
B	110	110	110	131	131	131
Pg	36	36	36	48	48	48

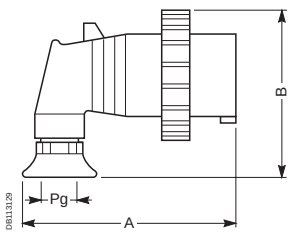
90° wander plugs

IP 44



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	110	115	119	141	141	141
B	91	98	105	113	113	116
Pg	16	16	16	21	21	21

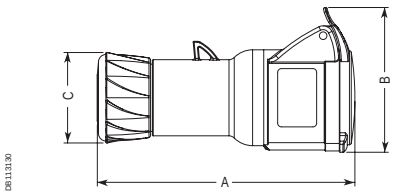
IP 67



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	110	115	119	141	141	141
B	91	98	105	113	113	116
Pg	16	16	16	21	21	21

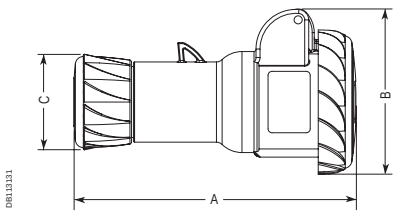
Wander sockets

IP 44

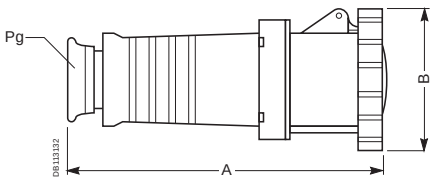


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	140	150	153	165	165	172
B	78	88	97	98	98	106
C	48	48	58	58	58	58

IP 67



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	142	152	155	164	164	173
B	84	87	96	99	99	104
C	48	48	58	58	58	58

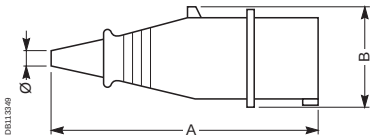


Dim.	63 A			125 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	265	265	265	325	325	325
B	110	110	110	131	131	131
Pg	36	36	36	48	48	48

PK plugs and sockets
low voltage
Plugs with phase inverter
Systems adapters

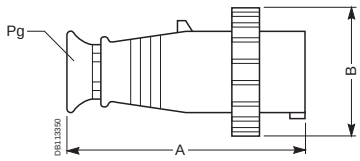
Plugs with phase inverter

IP 44



Dim.	16 A	
	3P+⏚	3P+N+⏚
A	145	163
B	66,5	74,5
Ø	10	13

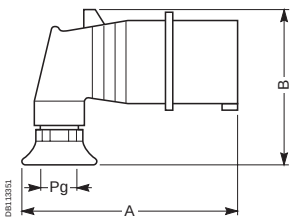
IP 67



Dim.	16 A	
	3P+⏚	3P+N+⏚
A	139	147,5
B	77	87
Pg	Pg 16	Pg 21

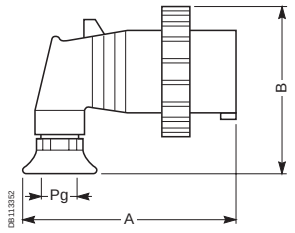
90° wander plugs with phase inverter

IP 44



Dim.	16 A	
	3P+⏚	3P+N+⏚
A	115	119
B	91	98
Ø	16	16

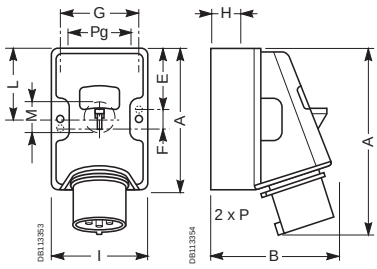
IP 67



Dim.	16 A	
	3P+⏚	3P+N+⏚
A	115	119
B	98	105
Pg	16	16

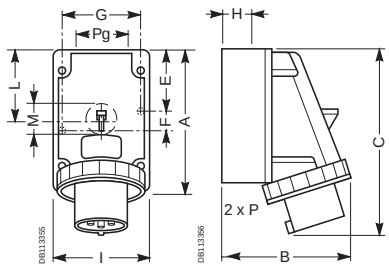
Wall-mounted plugs with phase inverter

IP 44



Dim.	16 A	
	3P+⏚	3P+N+⏚
A	100	130
B	109	125
C	140	134
E	41	7
F	18	116
G	67	92
H	21	25
I	80	106
L	50	65
M	23	28,5
Pg	21	21
P	2 x 16	2 x 21

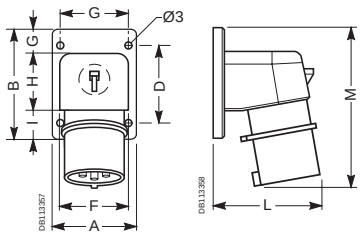
IP 67



Dim.	16 A	
	3P+⏚	3P+N+⏚
A	100	130
B	116	169
C	140	134
E	41	7
F	18	116
G	67	92
H	21	25
I	80	106
L	50	65
M	23	28,5
Pg	21	21
P	2 x 16	2 x 21

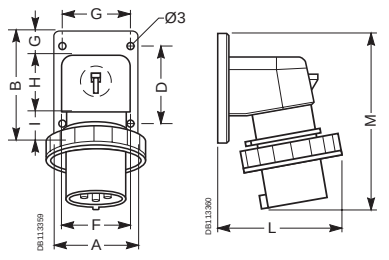
Panel-mounted plugs with phase inverter

IP 44



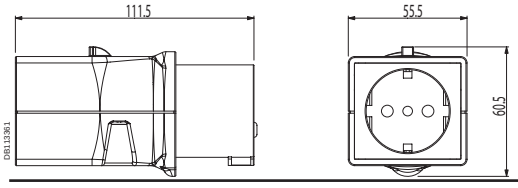
Dim.	16 A	
	3P+⏚	3P+N+⏚
A	65	90
B	85	100
C	52	77
D	60	85
E	5,2	5,5
F	53	76
G	20	20
H	41,5	59,5
I	23,5	20,5
L	85	96
M	124	148

IP 67

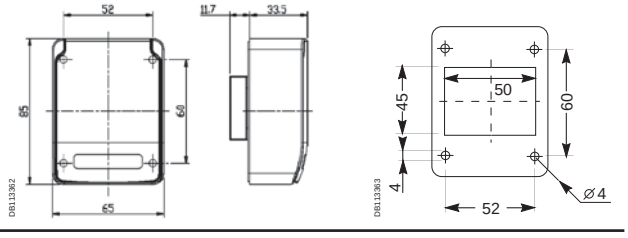


Dim.	16 A	
	3P+⏚	3P+N+⏚
A	65	90
B	85	100
C	52	77
D	60	85
E	5,2	5,5
F	53	76
G	20	20
H	41,5	59,5
I	23,5	20,5
L	92	107
M	124	148

System adapters



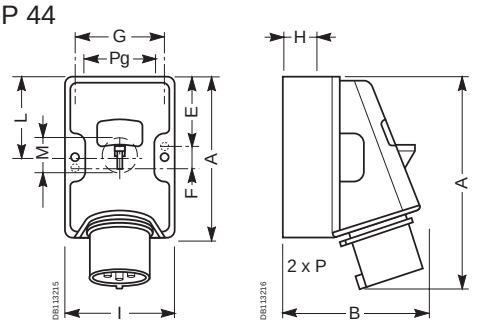
Domestic panel mounted sockets



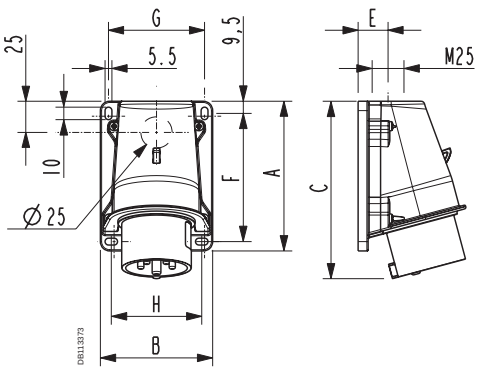
PK plugs and sockets
low voltage
Wall-mounted plugs

Wall-mounted plugs

IP 44

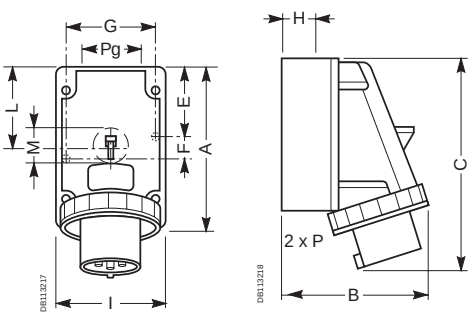


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	100	100	130	130	130	130
B	106	109	125	130	130	132
C	139	140	134	136	136	140
E	41	41	7	7	7	7
F	18	18	116	116	116	116
G	67	67	92	92	92	92
H	21	21	25	25	25	25
I	80	80	106	106	106	106
L	50	50	65	65	65	65
M	23	23	28,5	28,5	28,5	28,5
Pg	21	21	21	21	21	21
P	2 x 16	2 x 16	2 x 21	2 x 21	2 x 21	2 x 21

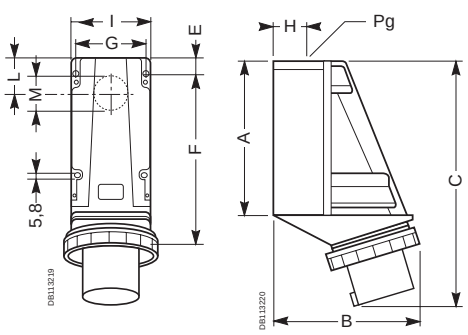


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	100	100	120	120	120	120
B	75	75	90	90	90	90
C	122	123	142	151	151	152
D	76	76	86	89	89	95
E	21	21	24	24	24	24
F	83	83	103	103	103	103
G	62	62	77	77	77	77
H	57,5	57,5	72,5	72,5	72,5	72,5

IP 67



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	100	100	130	130	130	130
B	111	116	169	178	178	179
C	139	140	134	136	136	140
E	41	41	7	7	7	7
F	18	18	116	116	116	116
G	67	67	92	92	92	92
H	21	21	25	25	25	25
I	80	80	106	106	106	106
L	50	50	65	65	65	65
M	23	23	28,5	28,5	28,5	28,5
Pg	21	21	21	21	21	21
P	2 x 16	2 x 16	2 x 16	2 x 16	2 x 16	2 x 16

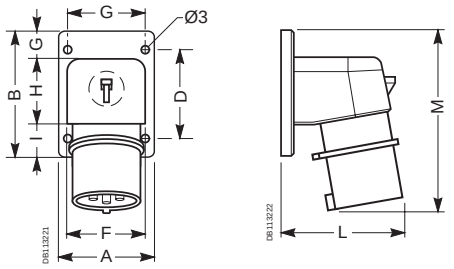


Dim.	63 A			125 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	162	162	162	224	224	224
B	180	180	180	214	214	214
C	281	281	281	354	354	354
E	8	8	8	23	23	23
F	127	127	127	147	147	147
G	88	88	88	97	97	97
H	31	31	31	44	44	44
I	104	104	104	114	114	114
L	40	40	40	50	50	50
M	38	38	38	60	60	60
Pg	29	29	29	48	48	48

PK plugs and sockets
low voltage
Panel-mounted plugs
Wall-mounted sockets

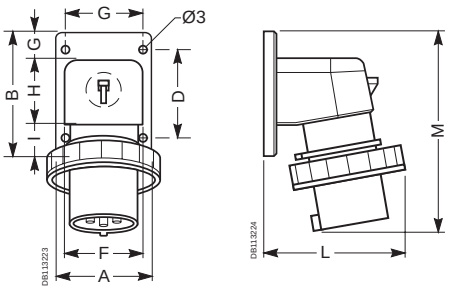
Panel-mounted plugs

IP 44

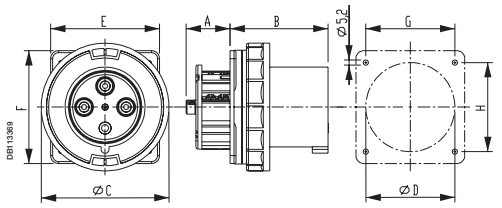


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	65	65	90	90	90	90
B	85	85	100	100	100	100
C	52	52	77	77	77	77
D	60	60	85	85	85	85
E	5,2	5,2	5,5	5,5	5,5	5,5
F	53	53	76	76	76	76
G	20	20	20	20	20	20
H	41,5	41,5	59,5	59,5	59,5	59,5
I	23,5	23,5	20,5	20,5	20,5	20,5
L	82	85	96	98	98	101
M	123	124	148	159	159	159

IP 67

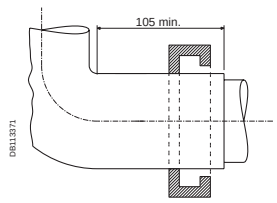


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	65	65	90	90	90	90
B	85	85	100	100	100	100
C	52	52	77	77	77	77
D	60	60	85	85	85	85
E	5,2	5,2	5,5	5,5	5,5	5,5
F	53	53	76	76	76	76
G	20	20	20	20	20	20
H	41,5	41,5	59,5	59,5	59,5	59,5
I	23,5	23,5	20,5	20,5	20,5	20,5
L	92	92	107	112	112	115
M	123	124	148	159	159	159



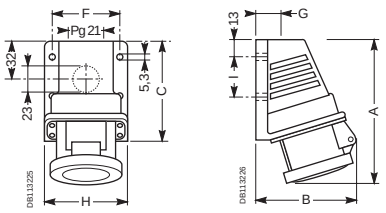
Dim.	63 A			125 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	24	24	24	44,5	44,5	44,5
B	89	89	89	99	99	99
C	114	114	114	129	129	129
D	75	75	75	90	90	90
E	100	100	100	110	110	110
F	107	107	107	114	114	114
G	77	77	77	90	90	90
H	85	85	85	90	90	90

Retaining means for IP67 panel mounted plugs of 63A and 125A (according to Standard IEC 60309-2)



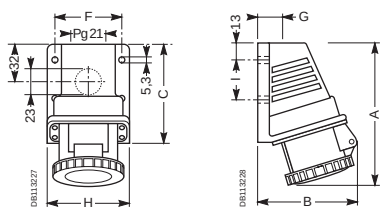
Small wall-mounted sockets

IP 44



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	131	131	150	159	159	160
B	92	92	101	104	104	106
C	82	82	100	100	100	100
F	59	59	69	69	69	69
G	20	20	24	24	24	24
H	70	70	81	81	81	81
I	33	33	47	47	47	47

IP 67

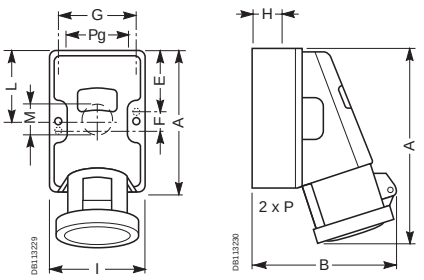


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	132	132	152	161	161	162
B	92	92	101	104	104	106
C	82	82	100	100	100	100
F	59	59	69	69	69	69
G	20	20	24	24	24	24
H	70	70	81	81	81	81
I	33	33	47	47	47	47

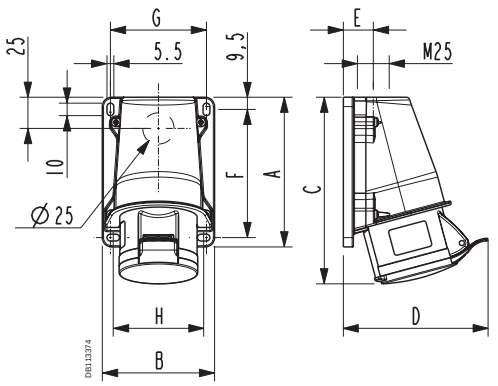
PK plugs and sockets
low voltage
Wall-mounted sockets

Wall-mounted sockets

IP 44

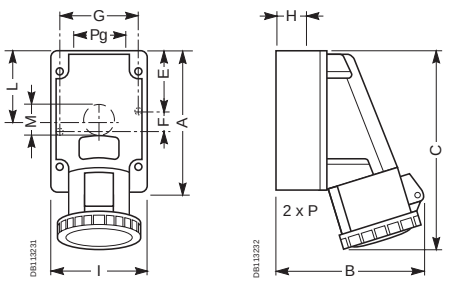


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	100	100	130	130	130	130
B	126	126	141	145	145	149
C	154	155	176	189	189	192
E	41	41	7	7	7	7
F	18	18	116	116	116	116
G	67	67	92	92	92	92
H	21	21	25	25	25	25
I	80	80	106	106	106	106
L	50	50	65	65	65	65
M	23	23	28,5	28,5	28,5	28,5
Pg	21	21	21	21	21	21
P	2 x 16	2 x 16	2 x 21	2 x 21	2 x 21	2 x 21

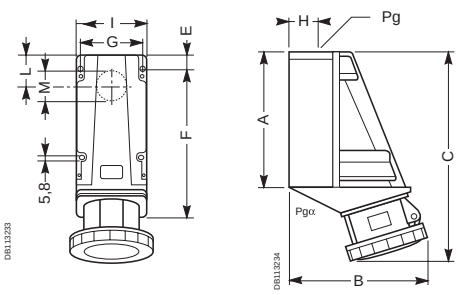


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	100	100	120	120	120	120
B	75	75	90	90	90	90
C	129	131	150	160	160	160
D	100	104	116	119	119	125
E	21	21	24	24	24	24
F	83	83	103	103	103	103
G	62	62	77	77	77	77
H	57,5	57,5	72,5	72,5	72,5	72,5

IP 67



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	100	100	130	130	130	130
B	126	127	143	148	148	154
C	155	156	178	191	191	194
E	41	41	7	7	7	7
F	18	18	116	116	116	116
G	67	67	92	92	92	92
H	21	21	25	25	25	25
I	80	80	106	106	106	106
L	50	50	65	65	65	65
M	23	23	28,5	28,5	28,5	28,5
Pg	21	21	21	21	21	21
P	2 x 16	2 x 16	2 x 21	2 x 21	2 x 21	2 x 21

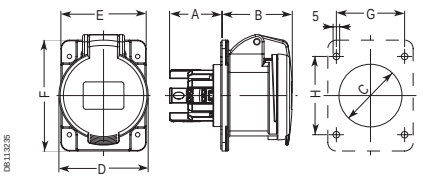


Dim.	63 A			125 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	162	162	162	224	224	224
B	180	180	180	213	213	213
C	255	255	255	340	340	340
E	8	8	8	23	23	23
F	127	127	127	147	147	147
G	88	88	88	97	97	97
H	31	31	31	44	44	44
I	104	104	104	114	114	114
L	40	40	40	50	50	50
M	38	38	38	60	60	60
Pg	29	29	29	48	48	48
Pgα	29	29	29	29	36	29

PK plugs and sockets
low voltage
Panel-mounted sockets
PK PratiKa

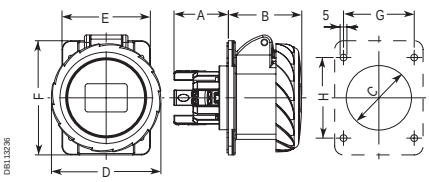
Straight panel-mounted sockets

IP 44



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	40	40	40	42	42	42
B	54	54	54	63	63	64
C	44	48	54	58	58	65
D	60	68	76	82	82	89
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85

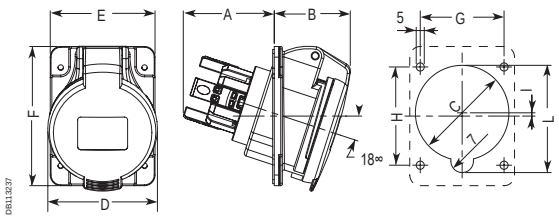
IP 67



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	40	40	40	42	42	42
B	54	54	54	63	63	64
C	44	48	54	58	58	65
D	73	81	89	95	95	102
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85

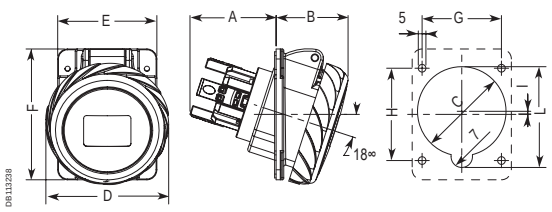
Angled panel-mounted sockets

IP 44



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	57	57	56	64	64	64
B	46	48	50	53	53	55
C	54	58	70	70	70	75
D	60	68	76	82	82	89
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85
I	2	2	7	3	3	2,5
L	59	65,5	75	76	76	83

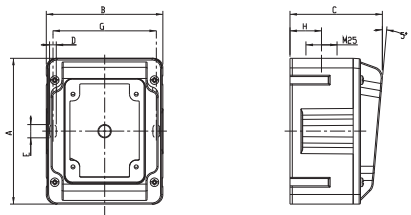
IP 67



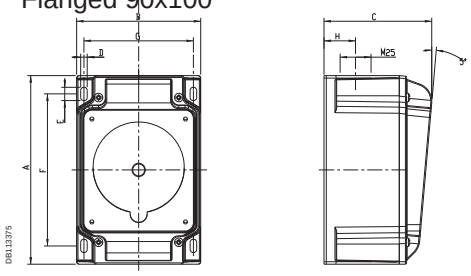
Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	57	57	56	64	64	64
B	46	48	50	54	54	57
C	54	58	70	70	70	75
D	73	81	89	95	95	102
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85
I	2	2	7	3	3	2,5
L	59	65,5	75	76	76	83

Back box

Flanged 65x85



Flanged 90x100

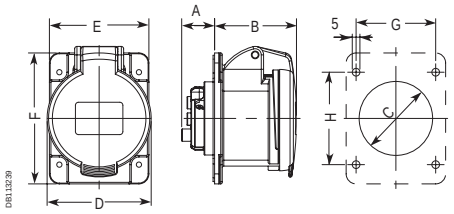


Dim.	suitable for fitting socket with flange	
	65x85	90x100
A	120	155
B	96	102
C	76	89
D	5,5	5,5
E	11	11
F	-	125
G	85	90
H	26	26

PK plugs and sockets
low voltage
Panel-mounted sockets
PK PratiKa and PK

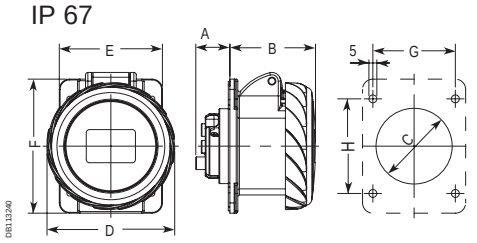
Straight panel-mounted sockets

IP 44

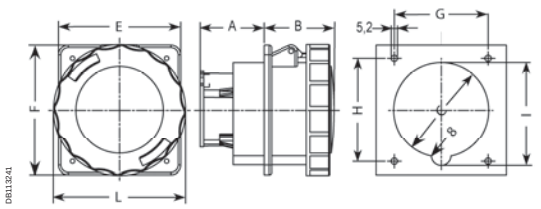


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	22	22	22	28	28	28
B	54	54	54	63	63	64
C	44	48	54	58	58	65
D	60	68	76	82	82	89
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85

IP 67



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	22	22	22	28	28	28
B	54	54	54	63	63	64
C	44	48	54	58	58	65
D	73	81	89	95	95	102
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85

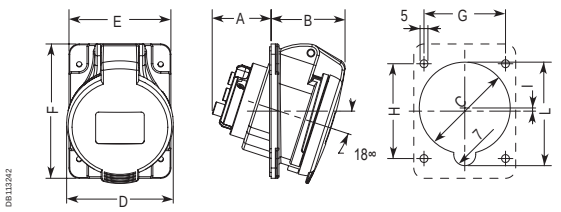


Dim.	63 A			125 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	52	52	52	76	76	76
B	61	61	61	85	85	85
C	78	78	78	90	90	90
E	100	100	100	110	110	110
F	107	107	107	114	114	114
G	77	77	77	90	90	90
H	85	85	85	90	90	90
I	85	85	85	96	96	96

L = 108 mm for 63 A and 129 mm for 125 A

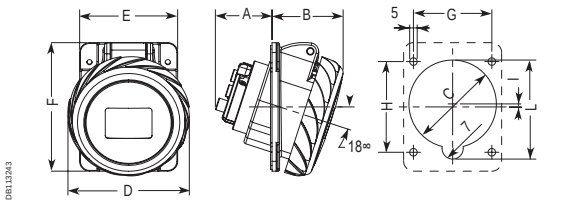
Angled panel-mounted sockets

IP 44

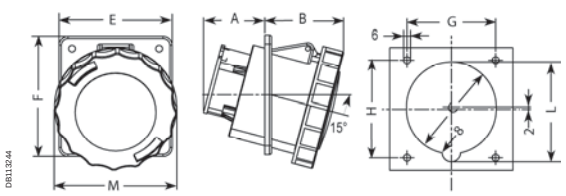


Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	38	38	37	48	48	48
B	46	48	50	53	53	55
C	54	58	70	70	70	75
D	60	68	76	82	82	89
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85
I	2	2	7	3	3	2,5
L	59	65,5	75	76	76	83

IP 67



Dim.	16 A			32 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	38	38	37	48	48	48
B	46	48	50	54	54	57
C	54	58	70	70	70	75
D	73	81	89	95	95	102
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85
I	2	2	7	3	3	2,5
L	59	65,5	75	76	76	83



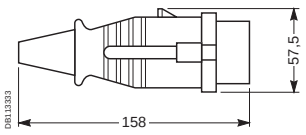
Dim.	63 A			125 A		
	2P+⏚	3P+⏚	3P+N+⏚	2P+⏚	3P+⏚	3P+N+⏚
A	56	56	56	76	76	76
B	73	73	73	90	90	90
C	82	82	82	96	96	96
E	100	100	100	110	110	110
F	107	107	107	114	114	114
G	77	77	77	90	90	90
H	85	85	85	90	90	90
I	90	90	90	102	102	102

M = 108 mm for 63 A and 129 mm for 125 A

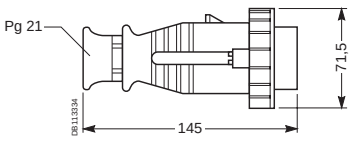
PK plugs and sockets extra-low voltage Plugs and sockets

Wander-plugs

IP 44

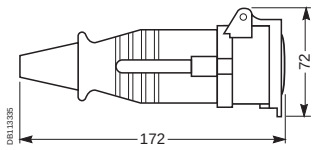


IP 67

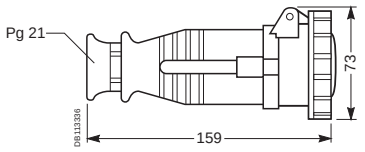


Wander sockets

IP 44

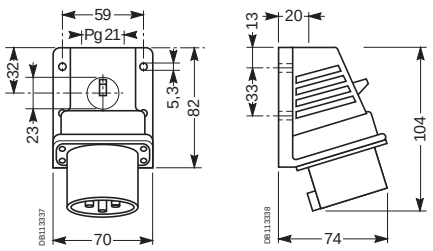


IP 67



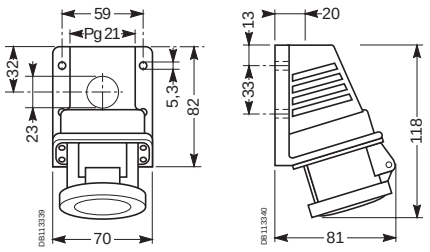
Wall-mounted plugs

IP 44

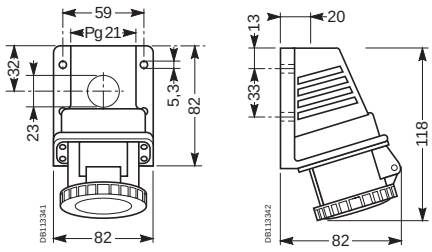


Wall-mounted sockets

IP 44



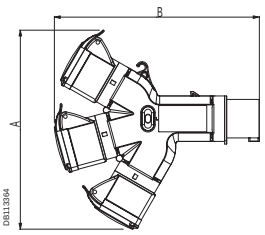
IP 67



Multiple adapters 3 socket outlets

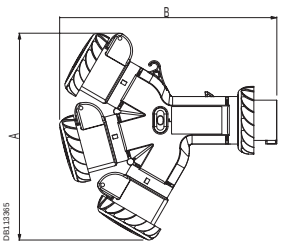
IP 44

PLUG SIDE	IP44		SOCKET SIDE
	A	B	
16A 2P+⏚	223	230	3 x 16A 2P+⏚
16A 3P+⏚	245	241	3 x 16A 3P+⏚
32A 3P+N+⏚	252	270	1x 32A 3P+N+⏚ +2 x 16A 2P+⏚



IP 67

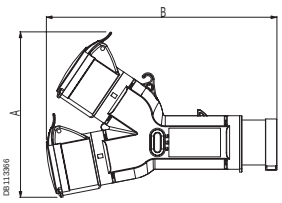
PLUG SIDE	IP67		SOCKET SIDE
	A	B	
16A 2P+⏚	222	233	3 x 16A 2P+⏚
16A 3P+⏚	242	244	3 x 16A 3P+⏚
32A 3P+N+⏚	251	274	1x 32A 3P+N+⏚ +2 x 16A 2P+⏚



Multiple adapters 2 socket outlets

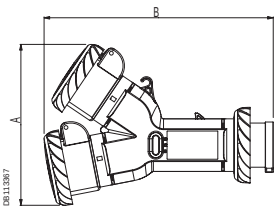
IP 44

PLUG SIDE	IP44		SOCKET SIDE
	A	B	
16A 2P+⏚	160	230	2 x 16A 2P+⏚
16A 3P+⏚	173	241	2 x 16A 3P+⏚



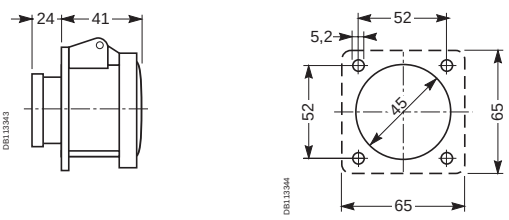
IP 67

PLUG SIDE	IP67		SOCKET SIDE
	A	B	
16A 2P+⏚	160	233	2 x 16A 2P+⏚
16A 3P+⏚	171	244	2 x 16A 3P+⏚

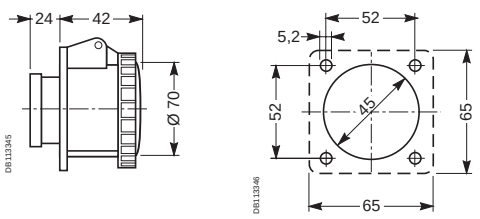


Panel-mounted straight sockets with flange 65 x 65

IP 44

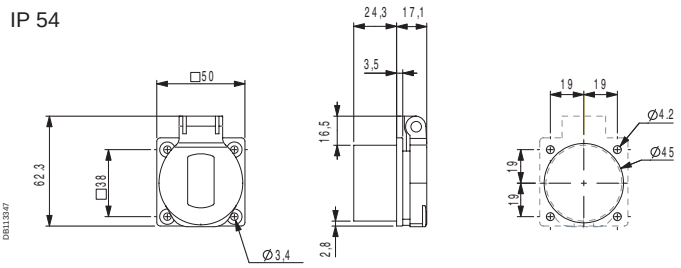


IP 67



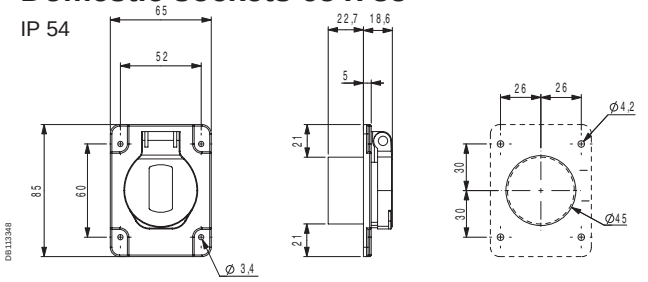
Domestic sockets 50 x 50

IP 54



Domestic sockets 65 x 85

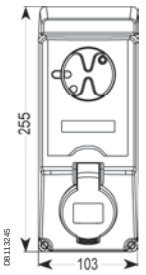
IP 54

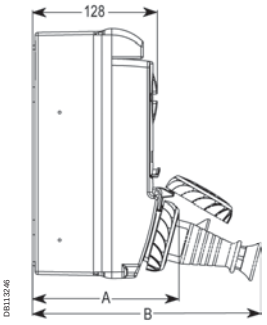


PK sockets with interlocked switch
PK Unika

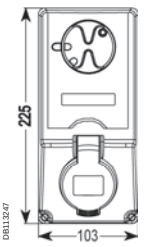
PK Unika Sockets with interlocked switch

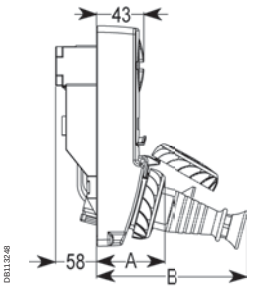
wall-mounted version

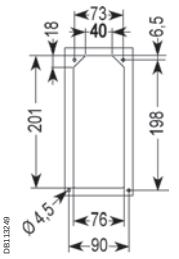




panel-mounted version



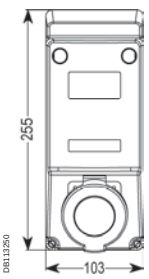


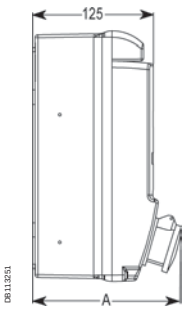


Dim.	IP44						IP65						IP44						IP65					
	16A			32A			16A			32A			16A			32A			16A			32A		
	3P	4P	5P	3P	4P	5P	3P	4P	5P	3P	4P	5P	3P	4P	5P	3P	4P	5P	3P	4P	5P	3P	4P	5P
A	150	150	151	151	151	152	149	150	151	151	151	153	69	69	70	70	70	71	68	69	70	70	70	72
B	235	239	257	271	271	274	237	240	244	260	260	261	154	158	176	190	190	193	156	159	163	179	179	180

PK Unika Sockets with safety transformer

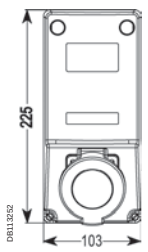
wall-mounted version

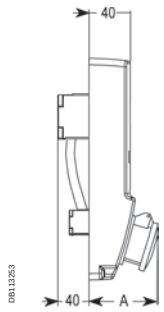




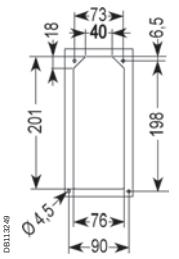
A = 166 (IP44) 167 (IP65)

panel-mounted version



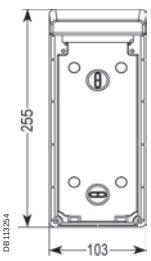


A = 86 (IP44) 87 (IP65)

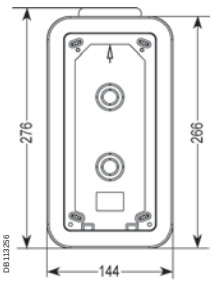


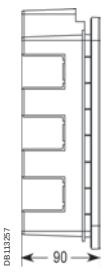
PK Unika Mounting boxes

wall-mounting



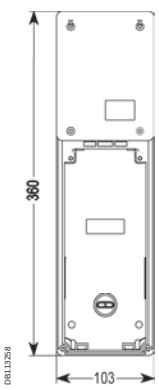
embedded boxes

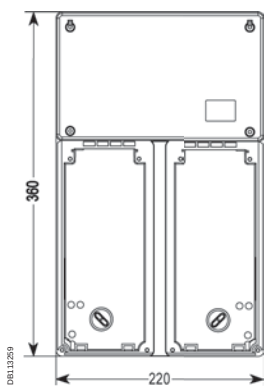


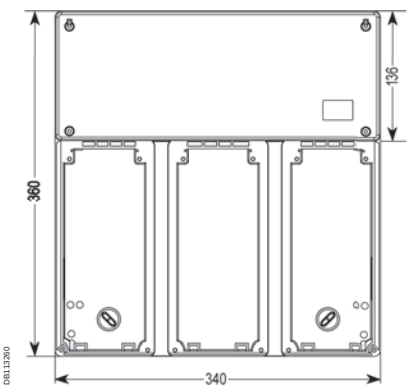


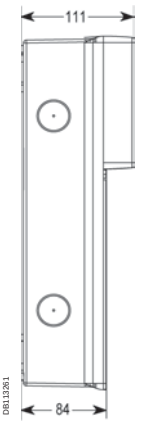
PK Unika Modular bases

wall-mounting





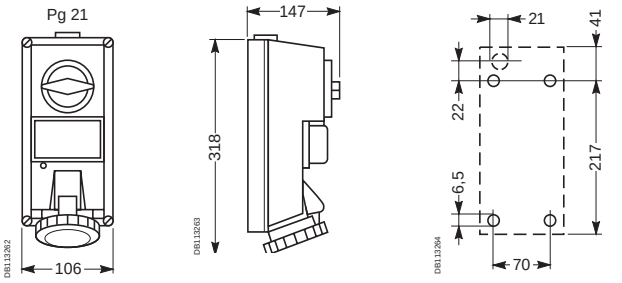




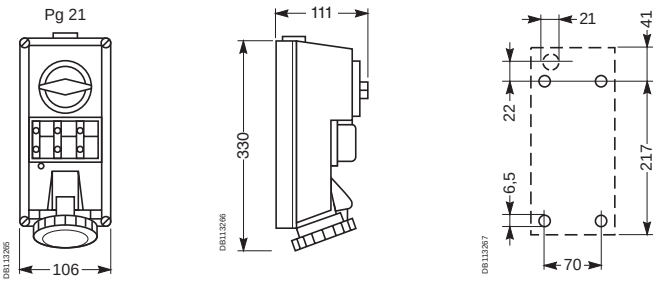
PK sockets with interlocked switch
PK Isoblock

PK Isoblock - Sockets with interlocked switch protected by disconnect fuse carriers with and without warning device

IP 65 - 16A

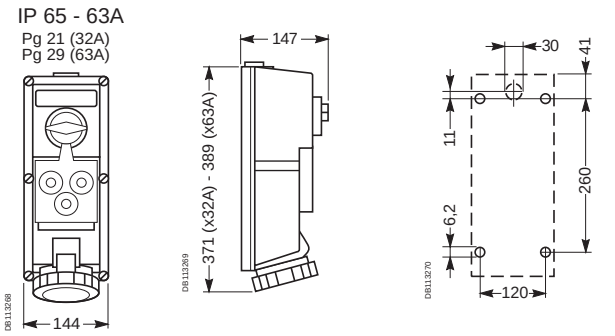


IP 65 - 32A



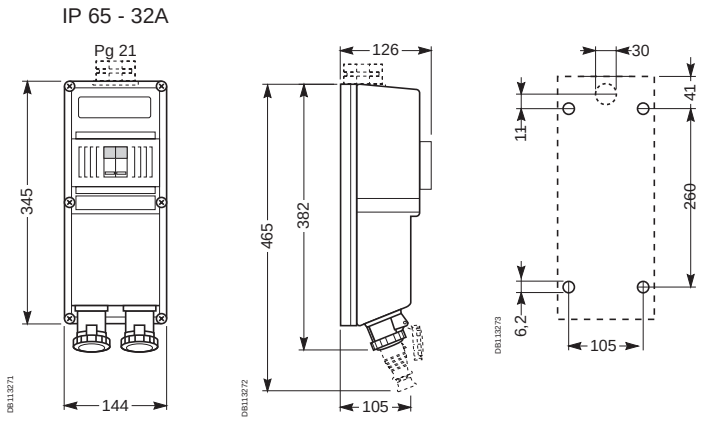
Sockets with interlocked switch protected by diazed fuse carriers

IP 65 - 63A



Sockets with safety transformer

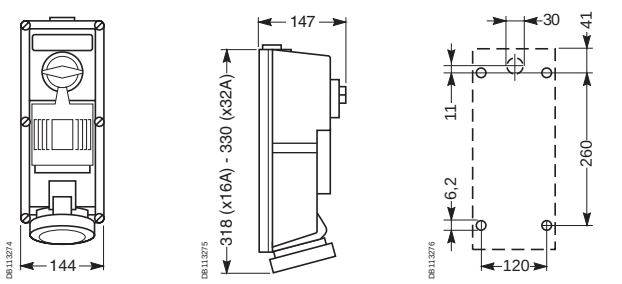
IP 65 - 32A



Sockets with DIN rail

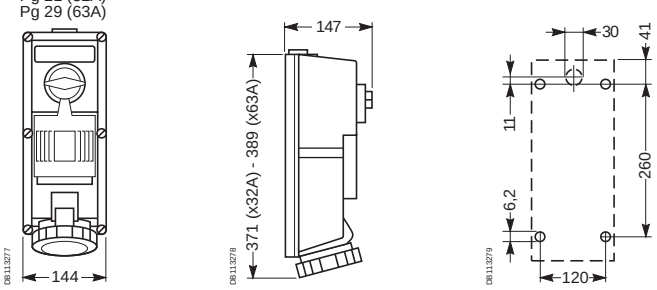
IP 65 - 16A et 32A

Pg 21 (32A)

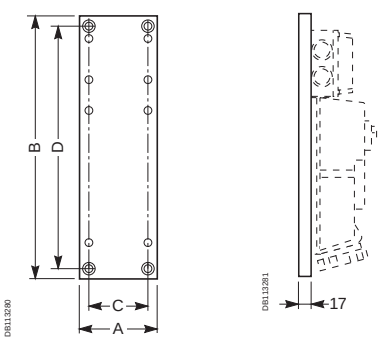


IP 65 - 32A et 63A

Pg 21 (32A)
Pg 29 (63A)



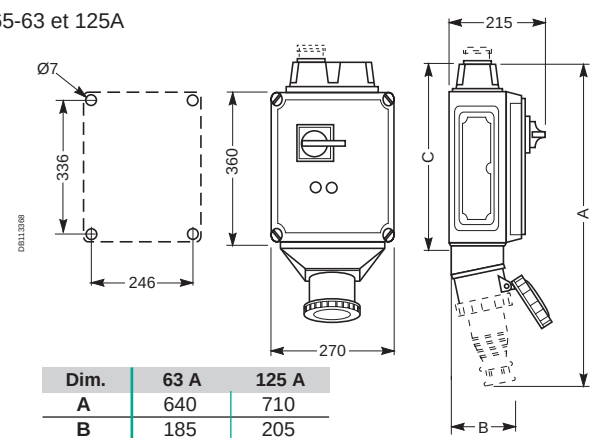
Modular panels



Dim.	83925 - 83325	83926 - 83326	83927 - 83327
A	111	222	151
B	535	535	535
C	81	192	121
D	514	514	514

PK Isoblock - Sockets with safety switch and electrical interlock

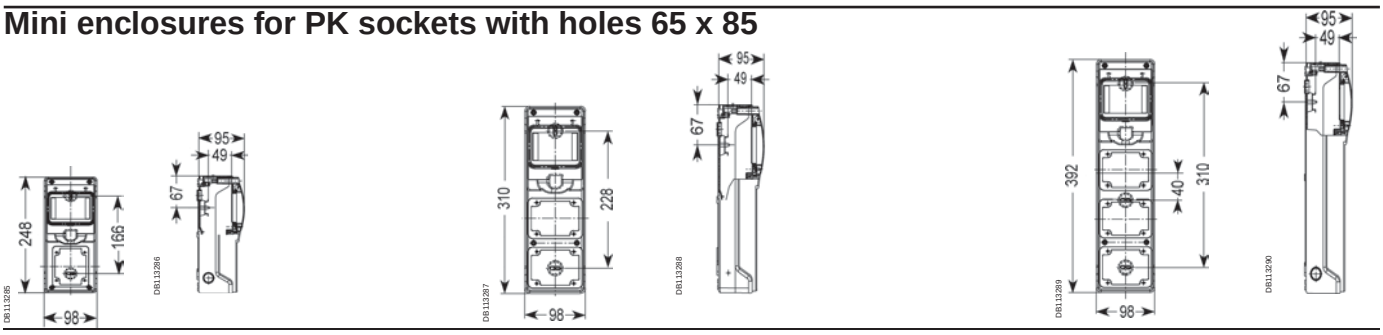
IP 65-63 et 125A



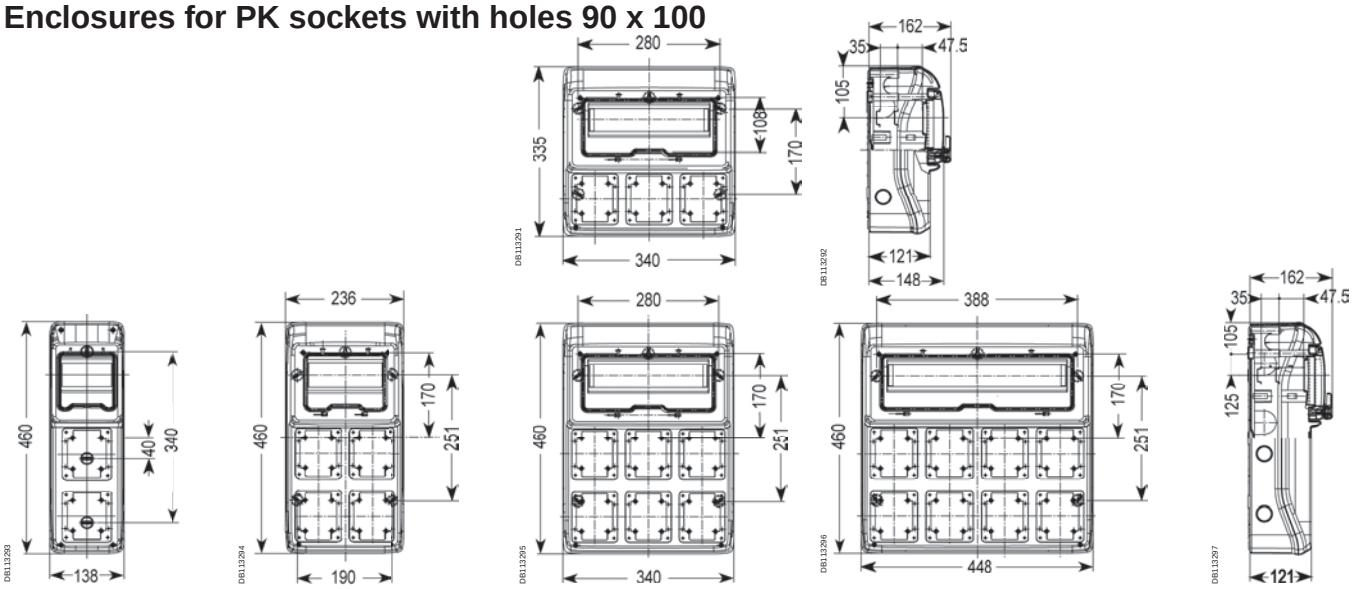
Dim.	63 A	125 A
A	640	710
B	185	205
C	510	520

Kaedra System
Enclosures for sockets

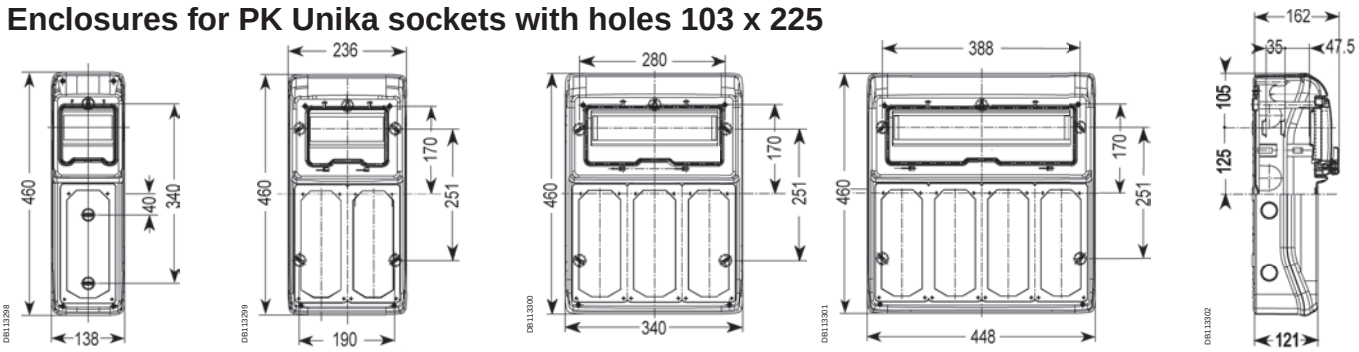
Mini enclosures for PK sockets with holes 65 x 85



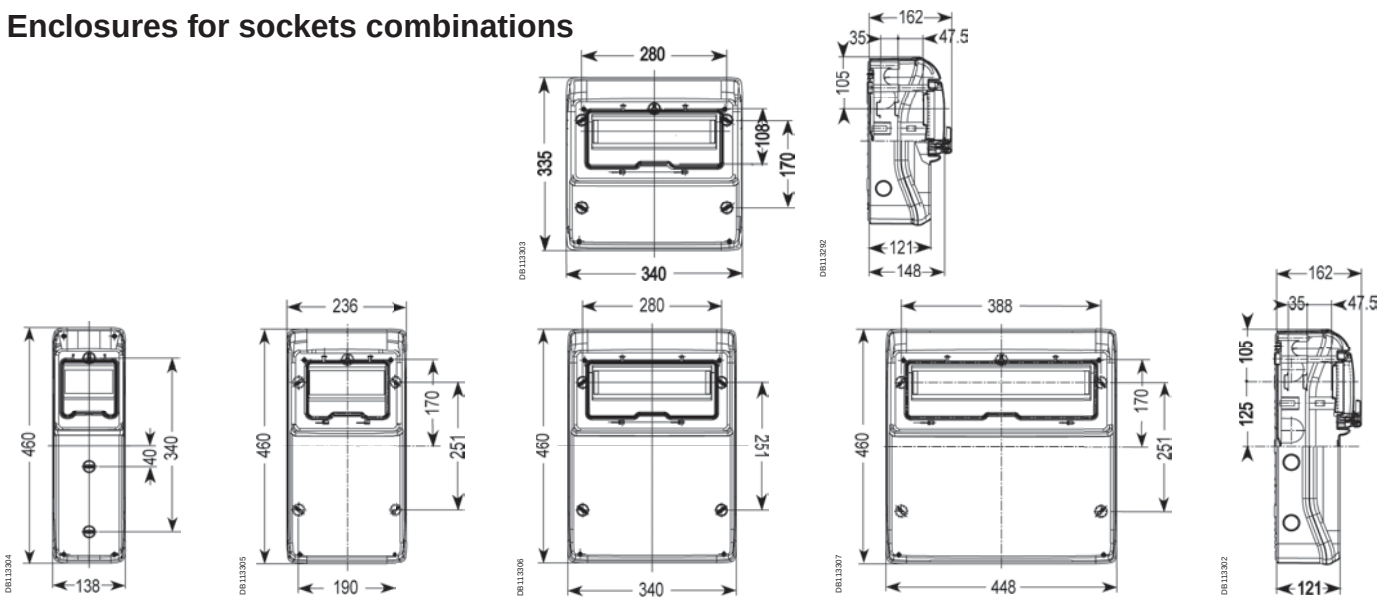
Enclosures for PK sockets with holes 90 x 100



Enclosures for PK Unika sockets with holes 103 x 225

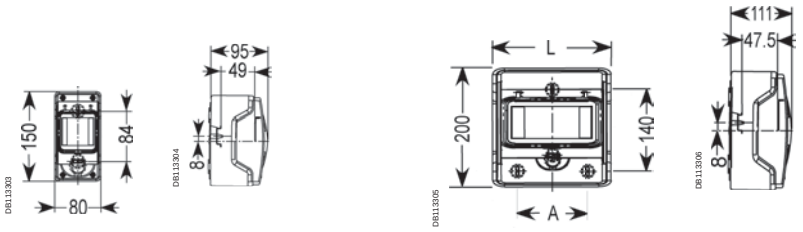


Enclosures for sockets combinations



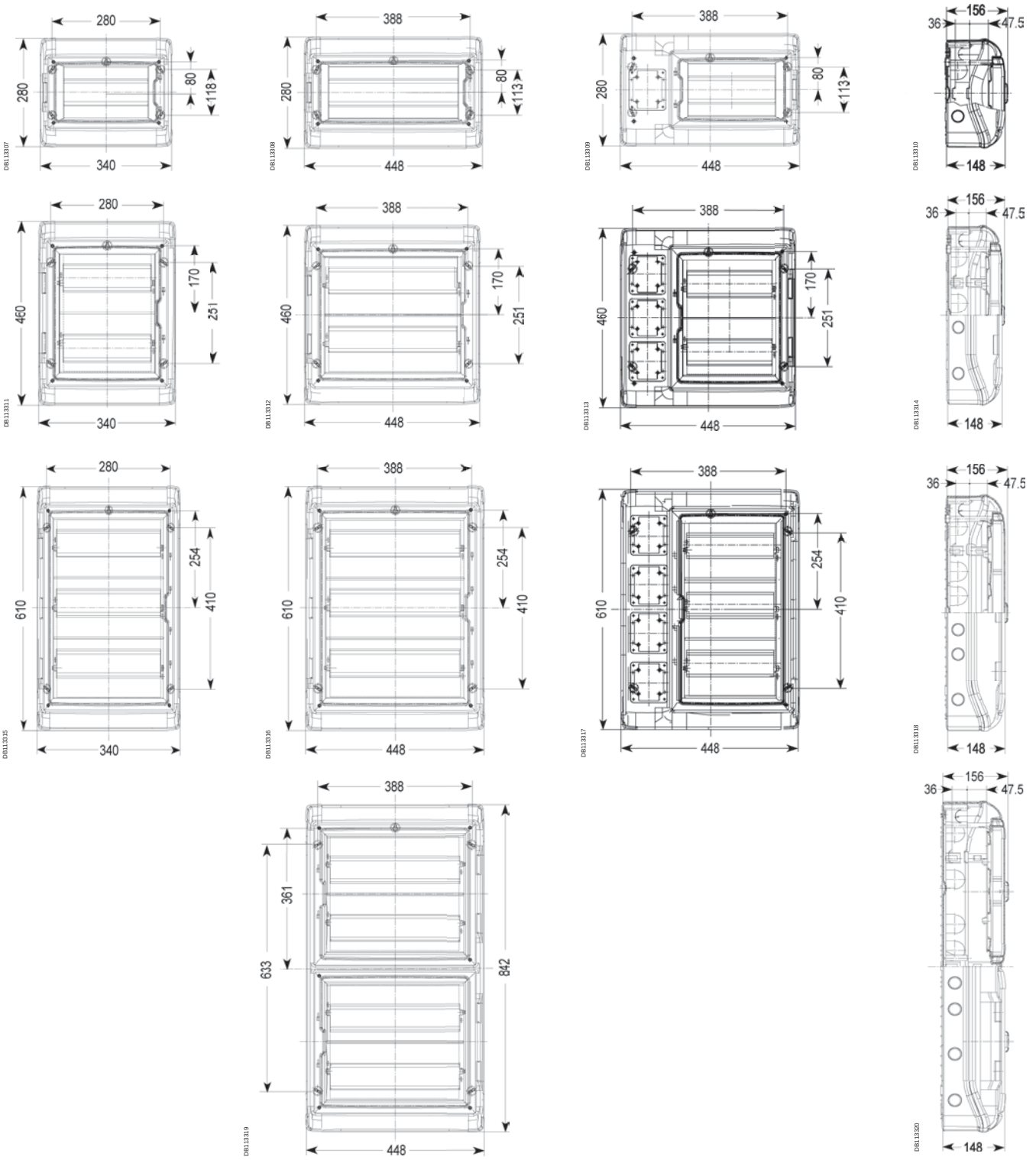
Kaedra System
Enclosures for modular devices

Mini enclosures for modular devices



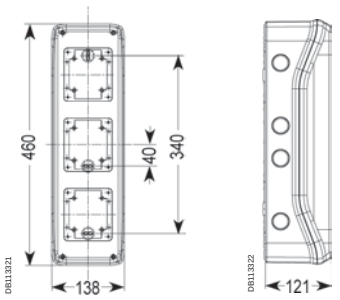
Modules	A	L
4	–	123
6	–	159
8	88	195
12	160	267

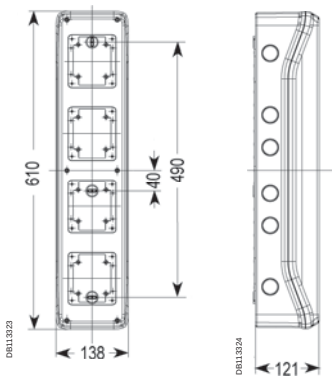
Enclosures for modular devices with interface



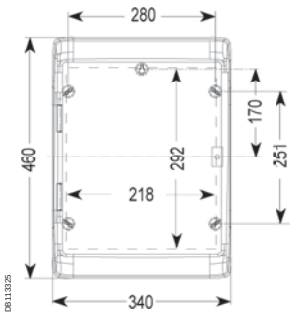
Kaedra System
Interface enclosures
Universal enclosures

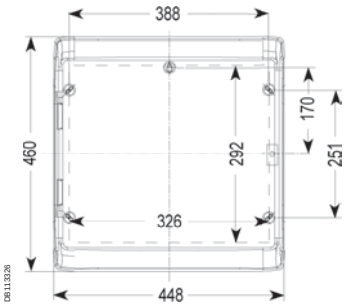
Interface enclosures

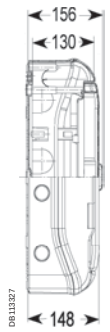


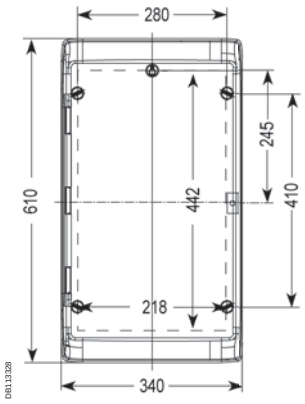


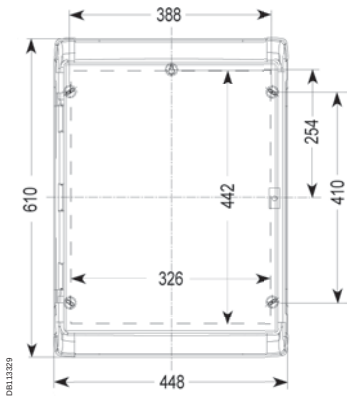
Universal enclosures

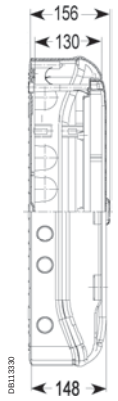


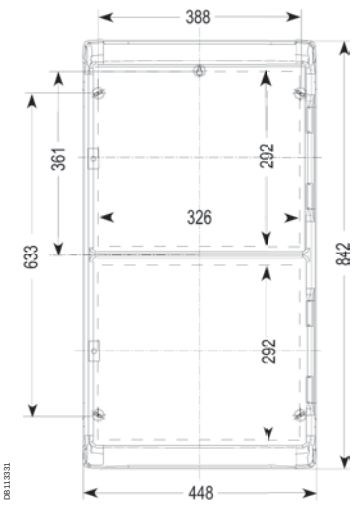


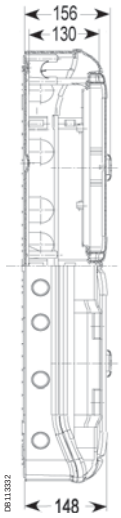












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