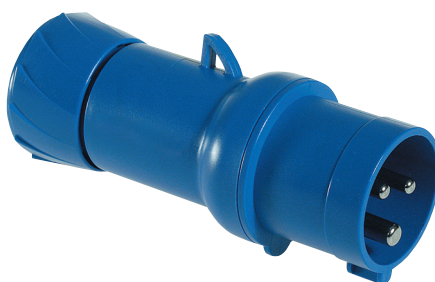


Low and Extra-Low voltage
Catalogue | 2015

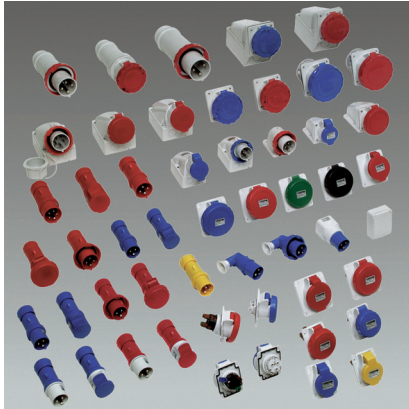
PratiKa

Industrial plugs and sockets



PratiKa plugs and sockets

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PR102195



PR102196



PR102197

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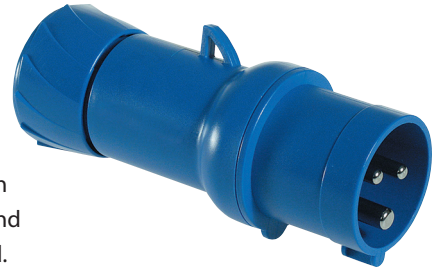
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Additional safety is assured by sockets with electrical switch in which a mechanical lock avoid plug insertion and extraction on charge.



PratiKa offer includes the FAST patented solution: this innovative cabling system enables connection without stripping the conductor and with absolutely no screws required.

Sockets with interlock switch

Plugs and sockets

> Complete solutions:

- Quick to connect
- Safe to use
- Functional and ergonomic
- Easy and intuitive



Kaedra

Kaedra enclosures for PratiKa industrial sockets are part of a complete system of waterlight enclosures from 16 to 125 A, providing solutions for protection, control and electrical distribution for tertiary and industrial applications.

PratiKa plugs and sockets

Low voltage and extra-low voltage



A complete range of high performance industrial plugs and sockets

The PratiKa 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.

This wide range of plugs and sockets is the result of Schneider's experience and know-how, it is a complete range, available for the 16 A, 32 A, 63 A and 125 A with degree of protection IP44 and IP67 in the wander, panel and wall versions.

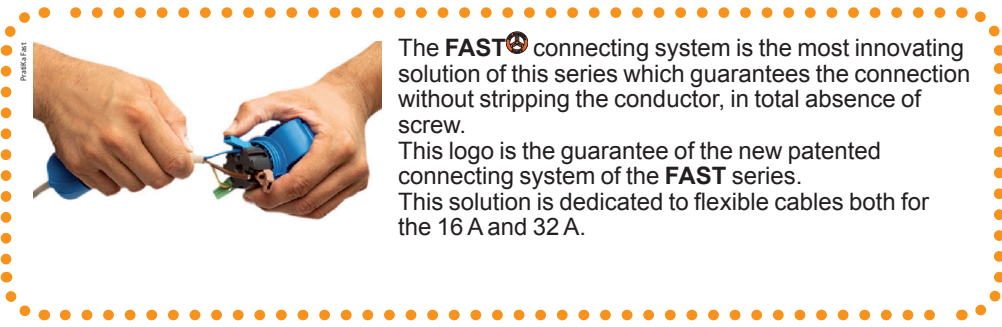
- These solutions are:
- b fast to connect
 - b safe in the use
 - b functional and ergonomic
 - b easy and intuitive.



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

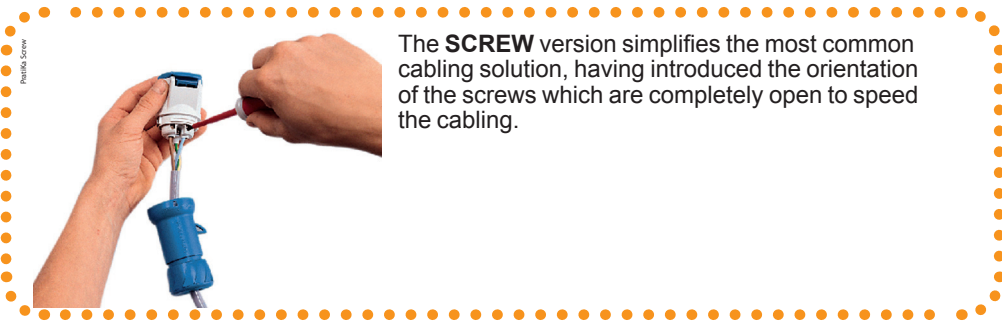
The range includes 16 and 32 A versions available in different number of pole (2P and 3P).

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. This solution is dedicated to flexible cables both for the 16 A and 32 A.

PratiKa with SCREW connection

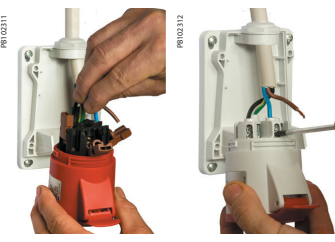


The **SCREW** version simplifies the most common cabling solution, having introduced the orientation of the screws which are completely open to speed the cabling.

PratiKa plugs and sockets

Low voltage and extra-low voltage


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, 16 A and 32 A.

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


Complete solutions for 63 A and 125 A



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.

A high performing thermoplastic material ensures the use in any aggressive environment in presence of oils and chemical agents.


Phase inverters and solutions for container



Phase inverters are designed to solve quickly and safely the problems concerning electrical connections of all rotary equipment.


These plugs and sockets have been built to ensure maximum protection and guaranteed functioning also in highly aggressive and corrosive environments.

Wander plugs angled 90°



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.

Domestic panel sockets



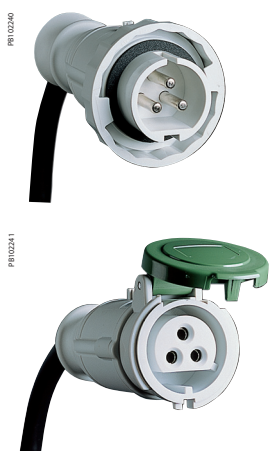
A range of domestic sockets IP54 is now available presenting "shutters" (child protection) in all versions, these devices permit to avoid harmful contact with the sleeves in presence of tension.

PratiKa plugs and sockets

Low voltage and extra-low voltage



Extra-low voltage sockets



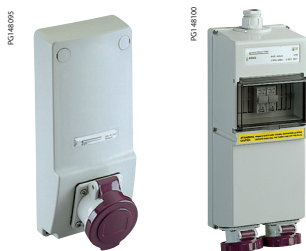
The PratiKa extra-low voltage sockets and plugs ensure the non-interchangeability by means of two reference elements:

- b a guide spline
- b a secondary keyway.

In accordance with the IEC 309-1 and IEC 309-2 standard.



Sockets with safety transformers



Both Unika and Isoblock series are used to power circuits with a voltage rating of 50 V 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.

PratiKa plugs and sockets

Sockets with interlock switch

PR102248



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

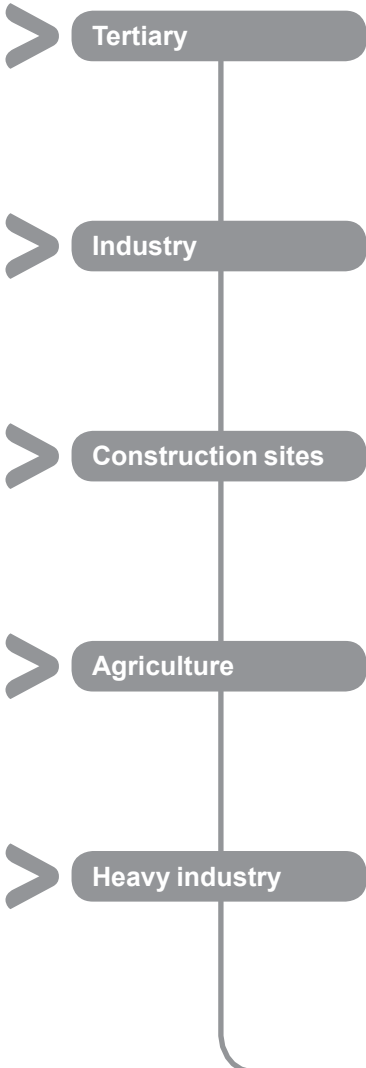
- b Unika: highly functional features and very versatile installation system.
- b Isoblock: for installation in high-risk areas.

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 involuntarily.

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.



PR102249

REC108-30

PR102250

LuxPark-30

PR102243

1024-30

PR102251

1224-30

PratiKa plugs and sockets

Sockets with interlock switch

PR10232



Global solution for industrial installations

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.

Unika series provides

Safety

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 and IEC 60309-4 standards.

Protection

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.

Resistance

Provides guaranteed IP44 and IP65 protection against the penetration of solids and liquids, in conformity with the IEC 60529 and EN 60529 standards, while resistance to mechanical shocks is covered by IK09 protection, in conformity with EN 62262 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.

PR10238



A complete range for heavy-duty applications

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

Isoblock series provides

High resistance

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

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 62262 standards.

PratiKa plugs and sockets

Sockets with interlock switch

Serie Unika

Unique because of the following:

- b one standard size 103 x 225 mm for 16 and 32 A sockets
- b for IP44 and IP65 versions
- b versions protected by fuses, without protection, with insulation transformers and with DIN rail for modular devices
- b fitted wall-mounted, used individually, in combination or in the Kaedra system.

Compact size



Unika sockets 16 - 32 A with interlock switch come in one standard size of 103 x 225 mm, which makes them the most compact on the market, guaranteeing at the same time ultra-high performance in terms of safety and functionality.

Easy to install



Unika interlocked sockets series are very easy in installation thanks to:

- b the same dimension of 16 and 32 A that can be easily interchanged on the 103 x 225 holes
- b possibility to separate the body from the back box to facilitate the wall fixing and the wiring
- b possibility to hang the body to comfortably cable the switch or MCBs (for 63A version)
- b possibility of cable entrance from the top, from the bottom or from the side of the box.

Design



The range includes functional and optimized shapes for an standingalone installation and for perfect integration with the unique Kaedra's enclosures.

The lines, the style and the shapes where conceived also on the basis of an easy manipulation and cabling.

Kaedra System and modular bases



Unika series sockets 16 and 32 A 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 Kaedra system socket panels designed specifically for Unika, enabling the construction of interlocked socket panels with the possibility of differential protection integrated.

Unika 63 can be easily associated to other interlocked sockets of Unika series both vertically or horizontally, possibility available also with the Kaedra system of watertight enclosures.


PratiKa plugs and sockets

Sockets with interlock switch

Serie Isoblock




Differentiated functions



- b Version with carrier for CH 10.3 x 38 cylindrical fuses in the 16 e 32 A applications and with E33 carrier for DIII fuses in the 63 A applications.
- b Version with carrier for CH 10.3 x 38 cylindrical fuses equipped with LED indicator device, which it warns of the voltage presence in each phase.
- b 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.




Sockets with interlock switch



The Isoblock series of 63-125 A 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



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.

PratiKa plugs and sockets Kaedra system

009445N



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.

- b Enclosures for sockets
- b Enclosures for modular devices
- b Enclosures for modular devices with interface
- b Interface enclosures
- b Universal enclosures

Safety

Kaedra enclosures ensure maximum protection thanks to the following:

- b IP65 protection
- b High resistance to shocks (IK09), chemical and atmospheric agents and UV rays
- b 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 through functional plaques.

Design

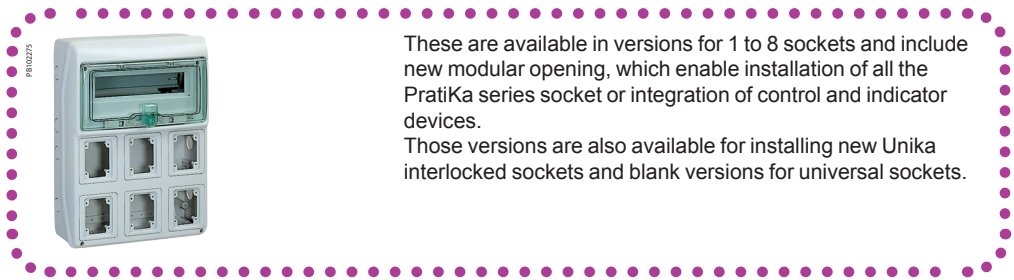
The modern and rounded shapes of the Kaedra enclosures are the result of careful studies on product design and ergonomics, and are recommended for public areas without spoiling the architectural surroundings with purely technological features.

The use of innovative colours enables them to fit in better with their surroundings while guaranteeing the principal needs of equipment visibility and control.

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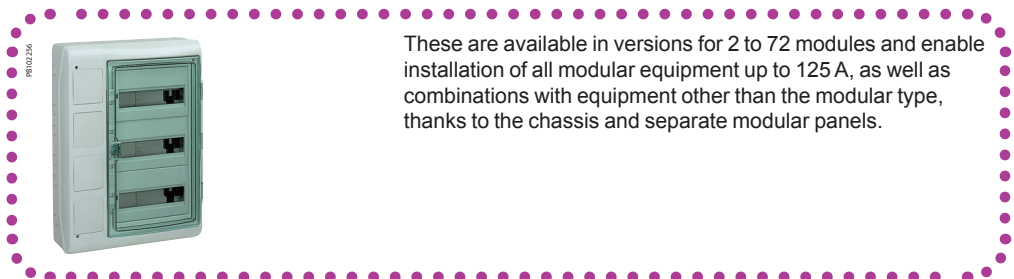
Enclosures for sockets



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

Those versions are also available for installing new 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 125 A, as well as combinations with equipment other than the modular type, thanks to the chassis and separate modular panels.

PratiKa plugs and sockets

Kaedra system



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 PratiKa 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 turned up side down to provide wide space for incoming and outgoing wiring. It is also possible to change the on-centre between the rails (150 mm in basic delivery 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:

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

PratiKa plugs

Low voltage Selection guide

PratiKa plugs 16 - 32 A

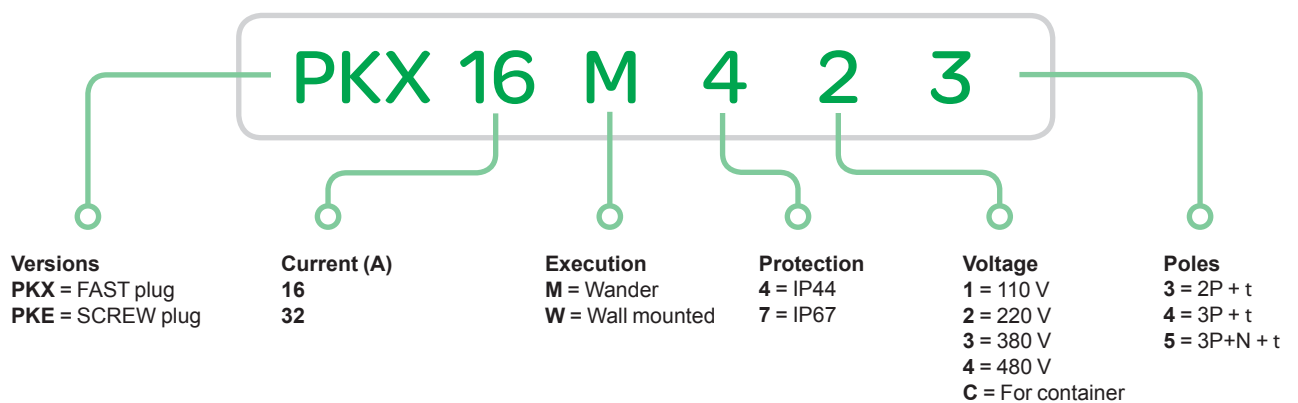
Rated current	Poles and wires	Freq.	Rated voltage	Clock position of contact	Wander plugs		Wander plugs		Wander plugs angled 90°	
					FAST connect 		SCREW connect		SCREW connect	
					IP44	IP67	IP44	IP67	IP44	IP67
16 A	2P + t	50/60	100-130 V AC	4 h	PKX16M413	PKX16M713	PKE16M413	PKE16M713	-	-
	3P + t	50/60		4 h	PKX16M414	PKX16M714	PKE16M414	PKE16M714	-	-
	3P+N + t	50/60		4 h	PKX16M415	PKX16M715	PKE16M415	PKE16M715	-	-
	2P + t	50/60	200-250 V AC	6 h	PKX16M423	PKX16M723	PKE16M423	PKE16M723	81704	81754
	3P + t	50/60		9 h	PKX16M424	PKX16M724	PKE16M424	PKE16M724	-	-
	3P+N + t	50/60		9 h	PKX16M425	PKX16M725	PKE16M425	PKE16M725	-	-
	2P + t	50/60	380-415 V AC	9 h	PKX16M433	PKX16M733	PKE16M433	PKE16M733	-	-
	3P + t	50/60		6 h	PKX16M434	PKX16M734	PKE16M434	PKE16M734	81708	81758
	3P+N + t	50/60		6 h	PKX16M435	PKX16M735	PKE16M435	PKE16M735	81709	81759
	3P + t	50/60	480-500 V AC	7 h	PKX16M444	PKX16M744	PKE16M444	PKE16M744	-	-
	3P+N + t	50/60		7 h	PKX16M445	PKX16M745	PKE16M445	PKE16M745	-	-
	3P+N + t	50/60		7 h	PKX32M413	PKX32M713	PKE32M413	PKE32M713	-	-
32 A	3P + t	50/60	100-130 V AC	4 h	PKX32M414	PKX32M714	PKE32M414	PKE32M714	-	-
	3P+N + t	50/60		4 h	PKX32M415	PKX32M715	PKE32M415	PKE32M715	-	-
	2P + t	50/60		200-250 V AC	6 h	PKX32M423	PKX32M723	PKE32M423	PKE32M723	81716
	3P + t	50/60	9 h		PKX32M424	PKX32M724	PKE32M424	PKE32M724	-	-
	3P+N + t	50/60	9 h		PKX32M425	PKX32M725	PKE32M425	PKE32M725	-	-
	2P + t	50/60	380-415 V AC	9 h	PKX32M433	PKX32M733	PKE32M433	PKE32M733	-	-
	3P + t	50/60		6 h	PKX32M434	PKX32M734	PKE32M434	PKE32M734	81720	81770
	3P+N + t	50/60		6 h	PKX32M435	PKX32M735	PKE32M435	PKE32M735	81721	81771
	3P+N + t	50/60	380-440 V AC	3 h	-	PKX32M7C4	-	PKE32M7C4	-	81799
	3P + t	50/60		7 h	PKX32M444	PKX32M744	PKE32M444	PKE32M744	-	-
	3P+N + t	50/60		7 h	PKX32M445	PKX32M745	PKE32M445	PKE32M745	-	-
	Technical data, see page					16	16	16	17	

PratiKa plugs 63 - 125 A



Rated current	Poles and wires	Freq.	Rated voltage	Clock position of contact	Wander plugs	Wall-mounted plugs	Panel-mounted plugs
					SCREW connect	SCREW connect	SCREW connect
					IP67	IP67	IP67
63 A	3P + t	50/60	100-130 V AC	4 h	81376	81576	81876
	3P+N + t	50/60		4 h	81377	81577	81877
	2P + t	50/60	200-250 V AC	6 h	81378	81578	81878
	3P + t	50/60		9 h	81379	81579	81879
	3P+N + t	50/60	9 h	81380	81580	81880	
	3P + t	50/60	380-415 V AC	6 h	81382	81582	81882
	3P+N + t	50/60		6 h	81383	81583	81883
	3P + t	50/60	480-500 V AC	7 h	81385	81585	81885
3P+N + t	50/60	7 h		81386	81586	81886	
125 A	3P + t	50/60	100-130 V AC	4 h	81388	81588	81888
	3P+N + t	50/60		4 h	81389	81589	81889
	2P + t	50/60	200-250 V AC	6 h	81390	81590	81890
	3P + t	50/60		9 h	81391	81591	81891
	3P+N + t	50/60	9 h	81392	81592	81892	
	3P + t	50/60	380-415 V AC	6 h	81394	81594	81894
	3P+N + t	50/60		6 h	81395	81595	81895
	3P + t	50/60	480-500 V AC	7 h	81397	81597	81897
	3P+N + t	50/60		7 h	81398	81598	81898
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Wall-mounted plugs		Wall-mounted plugs with back box		Panel-mounted plugs		Phase inverters									
FAST connect	SCREW connect	SCREW connect		SCREW connect		SCREW connect									
		Wander-plugs	Wander plugs angled 90°	Wall-mounted plugs	Panel-mounted plugs	IP44	IP67	IP44	IP67	IP44	IP67	IP44	IP67		
IP44	IP44	IP44	IP67	IP44	IP67	IP44	IP67	IP44	IP67	IP44	IP67	IP44	IP67	IP44	IP67
PKX16W413	PKE16W413	83501	83551	81801	83851	-	-	-	-	-	-	-	-	-	-
PKX16W414	PKE16W414	83502	83552	81802	83852	-	83914	81726	81776	83526	83576	-	-	83876	-
PKX16W415	PKE16W415	83503	83553	81803	83853	83905	83915	-	81777	83527	83577	83827	83877	-	-
PKX16W423	PKE16W423	83504	83554	81804	83854	-	-	-	-	-	-	-	-	-	-
PKX16W424	PKE16W424	83505	83555	81805	83855	83901	83911	81728	81778	83528	83578	-	-	83878	-
PKX16W425	PKE16W425	83506	83556	81806	83856	83906	-	81729	81779	83529	83579	83829	83879	-	-
PKX16W433	PKE16W433	83507	83557	81807	83857	-	-	-	-	-	-	-	-	-	-
PKX16W434	PKE16W434	83508	83558	81808	83858	83902	83912	-	81780	83530	83580	83830	83880	-	-
PKX16W435	PKE16W435	83509	83559	81809	83859	83903	83913	-	-	83531	83581	83831	83881	-	-
PKX16W444	PKE16W444	83511	83561	81811	83861	-	-	81732	81782	83532	83582	83832	83882	-	-
PKX16W445	PKE16W445	83512	83562	81812	83862	-	-	81733	81783	83533	-	83833	83883	-	-
PKX32W413	PKE32W413	83513	83563	81813	83863	-	-	-	-	-	-	-	-	-	-
PKX32W414	PKE32W414	83514	83564	81814	83864	-	-	-	-	-	-	-	-	-	-
PKX32W415	PKE32W415	83515	83565	81815	83865	-	-	-	-	-	-	-	-	-	-
PKX32W423	PKE32W423	83516	83566	81816	83866	-	-	-	-	-	-	-	-	-	-
PKX32W424	PKE32W424	83517	83567	81817	83867	-	-	-	-	-	-	-	-	-	-
PKX32W425	PKE32W425	83518	83568	81818	83868	-	-	-	-	-	-	-	-	-	-
PKX32W433	PKE32W433	83519	83569	81819	83869	-	-	-	-	-	-	-	-	-	-
PKX32W434	PKE32W434	83520	83570	81820	83870	-	-	-	-	-	-	-	-	-	-
PKX32W435	PKE32W435	83521	83571	81821	83871	-	-	-	-	-	-	-	-	-	-
-	-	-	81599	-	83899	-	-	-	-	-	-	-	-	-	-
PKX32W444	PKE32W444	83523	83573	81823	83873	-	-	-	-	-	-	-	-	-	-
PKX32W445	PKE32W445	83524	83574	81824	83874	-	-	-	-	-	-	-	-	-	-
18		19		20		23									

Learn how to define your PratiKa: industrial plugs



Technical data

			FAST connection, without screws	SCREW connection
				
Main characteristics			Designed to supply fixed or movable equipment by a flexible cable.	
Degree of protection	According to IEC 60529	16 and 32 A	IP44 IP67	IP44 IP67
		63 and 125 A	-	IP67
	According to EN 62262	Against external mechanical impacts	IK08	IK08
Pilot contact			-	Available in the 63 A and 125 A
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C	850°C
Materials			Housing made of self-extinguishing polymer Pins made of nickel-plated brass Springs and pins made of stainless steel	Housing made of self-extinguishing polymer Pins made of nickel-plated brass Springs and pins made of stainless steel
Connection terminals			Without screws and without stripping the conductor	Captive screws, completely loosened

Connection

Rating	FAST connection, without screws		SCREW connection		
	Cable entry	Maximum cross section of conductors	Cable entry		Maximum cross section of conductors
(In)	IP44 / IP67 Fair-lead and cable clamp	IEC 60309-1/A1, 60309-2/A1 Stranded wire cables / flexible cables	IP44 / IP67 Fair-lead and cable clamp	IP67 Cable gland	Solid cables / stranded wire cables / flexible cables
16 A	8 - 15 mm	1 to 2.5 mm ²	8 - 15 mm	-	1 to 4 mm ²
32 A	11.5 - 21 mm	2.5 to 6 mm ²	11.5 - 21 mm	-	2.5 to 10 mm ²
63 A	-	-	-	17 - 31 mm / PG36	6 to 25 mm ²
125 A	-	-	-	26 - 48 mm / PG48	16 to 70 mm ²

Code of wander plugs


Rating	Rated voltage												
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC			
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	
FAST connection, without screws													
IP44 16 A	PKX16M413	PKX16M414	PKX16M415	PKX16M423	PKX16M424	PKX16M425	PKX16M433	PKX16M434	PKX16M435	-	PKX16M444	PKX16M445	
32 A	PKX32M413	PKX32M414	PKX32M415	PKX32M423	PKX32M424	PKX32M425	PKX32M433	PKX32M434	PKX32M435	-	PKX32M444	PKX32M445	
IP67 16 A	PKX16M713	PKX16M714	PKX16M715	PKX16M723	PKX16M724	PKX16M725	PKX16M733	PKX16M734	PKX16M735	-	PKX16M744	PKX16M745	
32 A	PKX32M713	PKX32M714	PKX32M715	PKX32M723	PKX32M724	PKX32M725	PKX32M733	PKX32M734	PKX32M735	-	PKX32M744	PKX32M745	
SCREW connection													
IP44 16 A	PKE16M413	PKE16M414	PKE16M415	PKE16M423	PKE16M424	PKE16M425	PKE16M433	PKE16M434	PKE16M435	-	PKE16M444	PKE16M445	
32 A	PKE32M413	PKE32M414	PKE32M415	PKE32M423	PKE32M424	PKE32M425	PKE32M433	PKE32M434	PKE32M435	-	PKE32M444	PKE32M445	
IP67 16 A	PKE16M713	PKE16M714	PKE16M715	PKE16M723	PKE16M724	PKE16M725	PKE16M733	PKE16M734	PKE16M735	-	PKE16M744	PKE16M745	
32 A	PKE32M713	PKE32M714	PKE32M715	PKE32M723	PKE32M724	PKE32M725	PKE32M733	PKE32M734	PKE32M735	-	PKE32M744	PKE32M745	
63 A	-	81376	81377	81378	81378	81379	81380	-	81382	81383	-	81385	81386
125 A	-	81388	81389	81390	81391	81392	-	81394	81395	-	81397	81398	



PratiKa plugs

Low voltage
Wander plugs angled 90°

Technical data

			Angled 90°
			
Main characteristics			They have the advantage of not being very thick.
Degree of protection	According to IEC 60529	16 and 32 A	IP44
	According to EN 62262	Against external mechanical impacts	IP67
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	IK08
Materials			850°C
			Housing made of self-extinguishing polymer
			Pins made of nickel-plated brass
Connection terminals			Stainless steel screw
			Captive screws, completely loosened

Connection

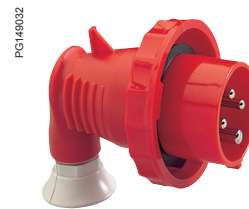
		Angled 90°		
Rating (In)	Cable entry	Cable entry		Maximum cross section of conductors Solid cables / stranded wire cables / flexible cables
		IP44 / IP67 Fair-lead	IP67 Cable gland	
16 A	8 - 15 mm	PG16 (PG21 5P)		1 to 4 mm ²
32 A	11.5 - 21 mm	PG21		2.5 to 10 mm ²

Code of wander plugs angled 90°

Rating	Rated voltage											
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC		
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
IP44 16 A	-	-	-	81704	-	-	-	81708	81709	-	-	-
32 A	-	-	-	81716	-	-	-	81720	81721	-	-	-
IP67 16 A	-	-	-	81754	-	-	-	81758	81759	-	-	-
32 A	-	-	-	81766	-	-	-	81770	81771	-	-	-



81704



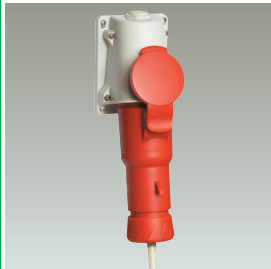
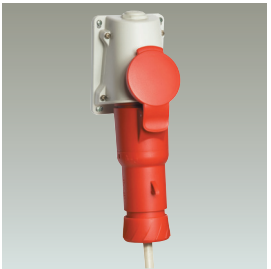
81770

Pratika plugs

Low voltage

Wall-mounted plugs

Technical data

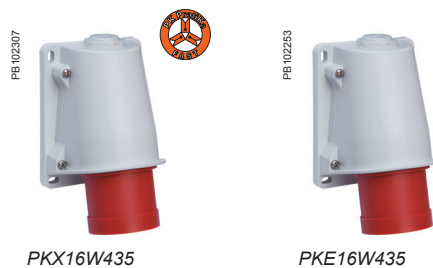
			FAST connection, without screws	SCREW connection
				
Main characteristics			They can be installed on an appliance to enable supply by wander socket.	
Degree of protection	According to IEC 60529	16 and 32 A	IP44	IP44
	According to EN 62262	Against external mechanical impacts	IK08	IK08
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	750°C	750°C
Materials			Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer
			Pins screw made of nickel-plated brass	Pins screw made of nickel-plated brass
			Stainless steel	Stainless steel
Connection terminals			Without screws and without stripping the conductor	Captive screws, completely loosened

Connection

		FAST connection, without screws		SCREW connection
Rating	Cable entry	Maximum cross section of conductors		Maximum cross section of conductors
(In)	Cable diameter	IP44 Cable entry	IEC 60309-1/A1, 60309-2/A1 Stranded wire cables / flexible cables	Solid cables / stranded wire cables / flexible cables
16 A	21.5 mm	M25 threaded nut	1 to 2.5 mm ²	1 to 4 mm ²
32 A	21.5 mm	M25 threaded nut	2.5 to 6 mm ²	2.5 to 10 mm ²

Code of wall-mounted plugs

Rating	Rated voltage											
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC		
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
FAST connection, without screws												
IP44 16 A	PKX16W413	PKX16W414	PKX16W415	PKX16W423	PKX16W424	PKX16W425	PKX16W433	PKX16W434	PKX16W435	-	PKX16W444	PKX16W445
32 A	PKX32W413	PKX32W414	PKX32W415	PKX32W423	PKX32W424	PKX32W425	PKX32W433	PKX32W434	PKX32W435	-	PKX32W444	PKX32W445
SCREW connection												
IP44 16 A	PKE16W413	PKE16W414	PKE16W415	PKE16W423	PKE16W424	PKE16W425	PKE16W433	PKE16W434	PKE16W435	-	PKE16W444	PKE16W445
32 A	PKE32W413	PKE32W414	PKE32W415	PKE32W423	PKE32W424	PKE32W425	PKE32W433	PKE32W434	PKE32W435	-	PKE32W444	PKE32W445




PratiKa plugs

Low voltage

Wall-mounted plugs with back box

Technical data

			SCREW connection
			
Main characteristics			They can be installed on an appliance to enable supply by wander socket.
Degree of protection	According to IEC 60529	16 and 32 A	IP44
		63 and 125 A	IP67
	According to EN 62262	Against external mechanical impacts	IK08
Pilot contact			Available in the 63 A and 125 A
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C
Materials			Housing made of self-extinguishing polymer Pins made of nickel-plated brass Stainless steel screws
Connection terminals			Captive screws, completely loosened

Connection

		SCREW connection		
Rating	(In)	Cable entry		Maximum cross section of conductors
		IP44 Fair-lead	IP67 Cable gland	Solid and stranded wire flexible cables
16 A		8 - 15 mm	PG16 (PG21 5P)	1 to 4 mm ²
32 A		11.5 - 21 mm	PG21	2.5 to 10 mm ²
63 A		-	PG36	6 to 25 mm ²
125 A		-	PG48	16 to 70 mm ²

Code of wall-mounted plugs

Rating	Rated voltage												
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC			
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	
SCREW connection													
IP44	16 A	83501	83502	83503	83504	83505	83506	83507	83508	83509	-	83511	83512
	32 A	83513	83514	83515	83516	83517	83518	83519	83520	83521	-	83523	83524
IP67	16 A	83551	83552	83553	83554	83555	83556	83557	83558	83559	-	83561	83562
	32 A	83563	83564	83565	83566	83567	83568	83569	83570	83571	-	83573	83574
	63 A	-	81576	81577	81578	81579	81580	-	81582	81583	-	81585	81586
	125 A	-	81588	81589	81590	81591	81592	-	81594	81595	-	81597	81598





Pratika plugs

Low voltage

Panel-mounted plugs

Technical data

			Straight SCREW connection	Angled SCREW connection	
					
Main characteristics			They can be installed on an appliance to enable supply by wander socket.		
Degree of protection	According to IEC 60529	16 and 32 A	-	IP44	
		63 and 125 A	IP67	IP67	
Pilot contact	According to EN 62262	Against external mechanical impacts	IK08	IK08	
			Available in the 63 A and 125 A	-	
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C	850°C	
Materials			Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer	
			Pins made of nickel-plated brass	Pins made of nickel-plated brass	
Connection terminals			-	Stainless steel screws	
Flange dimensions	16 A	2P + t	-	Captive screws, completely loosened	
		3P + t	-	65 x 85 mm	
		3P+N + t	-	90 x 100 mm	
	32 A	2P + t	-		
		3P + t	-		
		3P+N + t	-		

Connection

		Straight SCREW connection	Angled SCREW connection
Rating		Maximum cross section of conductors	
(In)		Solid and stranded wire flexible cables	
16 A		-	1 to 4 mm ²
32 A		-	2.5 to 10 mm ²
63 A		6 to 25 mm ²	-
125 A		16 to 70 mm ²	-

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

Code of panel-mounted plugs

Rating	Rated voltage											
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC		
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
Straight SCREW connection												
IP67 63 A	-	81876	81877	81878	81879	81880	-	81882	81883	-	81885	81886
125 A	-	81888	81889	81890	81891	81892	-	81894	81895	-	81897	81898
Angled SCREW connection												
IP44 16 A	81801	81802	81803	81804	81805	81806	81807	81808	81809	-	81811	81812
32 A	81813	81814	81815	81816	81817	81818	81819	81820	81821	-	81823	81824
IP67 16 A	83851	83852	83853	83854	83855	83856	83857	83858	83859	-	83861	83862
32 A	83863	83864	83865	83866	83867	83868	83869	83870	83871	-	83873	83874

Caps to cover plugs with IP67

Rating	Code		
Poles and wires	2P + t	3P + t	3P+N + t
IP67 16 A	83933	93934	83935
32 A	83936	83936	83937

PG149061



81885

PG149075



81895

PG149075



81804

PG149075




83871

PG149075



83934

Technical data

			System adapters
			
Main characteristics			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.
Degree of protection	According to IEC 60529		IP20
	According to EN 62262	Against external mechanical impacts	IK08
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C
Conceived in conformity with standards			EN 50250 IEC 60309-1, IEC 60309-2 and IEC 60309-4
Materials			Housing made of self-extinguishing polymer Pins made of nickel-plated brass Stainless steel screws

Code of System Adapters

Rating	Rated voltage			
	200 - 250 V AC			
Industrial plug side - Current and Poles	2P + t			
16 A	PKZA201	PKZA202	PKZA203	PKZA204
Socket side - Number and type	1 socket - 10/16 A	2 sockets - 10/16 A	1 socket - 16 A	1 socket - 10/16 A
Standard	Italy		Germany	France

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



PKZA201



PKZA202



PKZA203



PKZA204

PratiKa plugs

Low voltage

Plugs with phase inverter

The PratiKa 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.

Solution for rapid inversion of electric motor rotation

The range includes different models:

- b wander plugs,
- b wander plugs angled 90°,
- b wall-mounting plugs,
- b panel-mounting plugs.

Technical data

		SCREW connection
Main characteristics		
Degree of protection	According to IEC 60529	IP44 IP67
Resistance to fire and abnormal heat	According to IEC 60695-2-11 Glow wire test	850°C
Operating frequency		50/60 Hz
Materials		Housing made of self-extinguishing polymer Pins made of nickel-plated brass Stainless steel screws
Connection terminals		Captive screws, completely loosened

Connection

		SCREW connection		
Rating		Cable entry		Maximum cross section of conductors
(In)		IP44 / IP67 Fair-lead	IP67 Cable gland	Solid and stranded wire flexible cables
16 A		8 - 15 mm	PG16 (PG21 5P)	1 to 4 mm ²

PratiKa plugs

Low voltage

Plugs with phase inverter



83902



83912

Code of wander plugs with phase inverter

Rating	Rated voltage							
	100 - 130 V AC		200 - 250 V AC		380 - 415 V AC		480 - 500 V AC	
Poles and wires	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t
IP44 16 A	-	83905	83901	83906	83902	83903	-	-
IP67 16 A	83914	83915	83911	-	83912	83913	-	-



81780

Code of wander plugs angled 90° with phase inverter

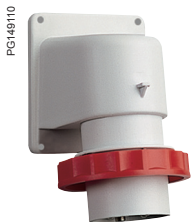
Rating	Rated voltage							
	100 - 130 V AC		200 - 250 V AC		380 - 415 V AC		480 - 500 V AC	
Poles and wires	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t
IP44 16 A	81726	-	81728	81729	-	-	81732	81733
IP67 16 A	81776	81777	81778	81779	81780	-	81782	81783



83581

Code of wall-mounted plugs with phase inverter

Rating	Rated voltage							
	100 - 130 V AC		200 - 250 V AC		380 - 415 V AC		480 - 500 V AC	
Poles and wires	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t
IP44 16 A	83526	83527	83528	83529	83530	83531	83532	83533
IP67 16 A	83576	83577	83578	83579	83580	83581	83582	-



83880

Code of panel-mounted plugs with phase inverter

Rating	Rated voltage							
	100 - 130 V AC		200 - 250 V AC		380 - 415 V AC		480 - 500 V AC	
Poles and wires	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t
IP44 16 A	-	83827	-	83829	83830	83831	83832	83833
IP67 16 A	83876	83877	83878	83879	83880	83881	83882	83883



83934

Caps to cover plugs with IP44 and IP67

Rating	Code	
Poles and wires	3P + t	3P+N + t
IP67 16 A	83934	83935

PratiKa plugs

Extra-low voltage

Selection guide

PratiKa plugs 16 - 32 A





Rated current	Poles and wires	Freq. Hz	Rated voltage	Clock position of secondary keyway	Wander plugs		Wall-mounted plugs
					IP44	IP67	IP44
16 A	2P	50/60	20-25 V AC	s.r.	82301	82351	82501
	3P	50/60		s.r.	82302	82352	82502
	2P	50/60	40-50 V AC	12 h	82303	82353	82503
	3P	50/60		12 h	82304	82354	82504
	2P	100/200	20-25 V AC / 40-50 V AC	4 h	82305	82355	82505
	3P	100/200		4 h	82306	82356	82506
	2P	401/500		11 h	82311	82361	82511
	3P	401/500		11 h	82312	82362	82512
32 A	2P	c	20-25 V AC / 40-50 V AC	10 h	82313	82363	82513
	2P	50/60	20-25 V AC	s.r.	82315	82365	82515
	3P	50/60		s.r.	82316	82366	82516
	2P	50/60	40-50 V AC	12 h	82317	82367	82517
	3P	50/60		12 h	82318	82368	82518
	2P	100/200	20-25 V AC / 40-50 V AC	4 h	82319	82369	82519
	3P	100/200		4 h	82320	82370	82520
	2P	401/500		11 h	82325	82375	82525
	3P	401/500		11 h	82326	82376	82526
	2P	c	20-25 V AC / 40-50 V AC	10 h	82327	82377	82527
Technical data, see page					25		

PratiKa plugs

Extra-low voltage

Wander plugs and wall-mounted plugs

Technical data

			Wander plugs	Wall-mounted plugs
				
Main characteristics			Installations and wander sockets can be powered by a flexible cable.	They can be wall-mounted to supply appliances with wander plugs.
Degree of protection	According to IEC 60529	16 and 32 A	IP44 IP67	IP44 IP67
	According to EN 62262	Against external mechanical impacts	IK08	IK08
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C	850°C
Materials			Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer
			Pins made of nickel-plated brass	Pins made of nickel-plated brass
			Stainless steel screw	Stainless steel screw
Connection terminals			Captive screws, completely loosened	Captive screws, completely loosened

Connection

Wander plugs and wall-mounted plugs			
Rating	Cable entry		Maximum cross section of conductors
(In)	IP44 / IP67 Fair-lead	IP67 Cable gland	Solid and stranded wire flexible cables
16 A	6 - 23 mm	PG21	4 to 10 mm ²
32 A	6 - 23 mm	PG21	4 to 10 mm ²

Code of wander plugs

Rating	Rated voltage											
	20-25 V 50/60 Hz		40-50 V 50/60 Hz		20-25 V / 40-50 V 100-200 Hz				401-500 Hz		20-25 V / 40-50 V c	
Poles and wires	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P
IP44 16 A	82301	82302	82303	82304	82305	82306	82311	82312	82313	-	-	-
32 A	82315	82316	82317	82318	82319	82320	82325	82326	82327	-	-	-
IP67 16 A	82351	82352	82353	82354	82355	82356	82361	82362	82363	-	-	-
32 A	82365	82366	82367	82368	82369	82370	82375	82376	82377	-	-	-

Code of wall-mounted plugs

Rating	Rated voltage											
	20-25 V 50/60 Hz		40-50 V 50/60 Hz		20-25 V / 40-50 V 100-200 Hz				401-500 Hz		20-25 V / 40-50 V c	
Poles and wires	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P
IP44 16 A	82501	82502	82503	82504	82505	82506	82511	82512	82513	-	-	-
32 A	82515	82516	82517	82518	82519	82520	82525	82526	82527	-	-	-



82301



82368




82501

PratiKa sockets


Low voltage Selection guide

PratiKa sockets 16 - 32 A



Rated current	Poles and wires	Freq. Hz	Rated voltage	Clock position of contact	Wander sockets		Panel mounted sockets			
					FAST connect		Angled FAST connect		Straight FAST connect	
					IP44	IP67	IP44	IP67	IP44	IP67
16 A	2P + t	50/60	100-130 V AC	4 h	PKY16M413	PKY16M713	PKY16F413	PKY16F713	PKY16G413	PKY16G713
	3P + t	50/60		4 h	PKY16M414	PKY16M714	PKY16F414	PKY16F714	PKY16G414	PKY16G714
	3P+N + t	50/60		4 h	PKY16M415	PKY16M715	PKY16F415	PKY16F715	PKY16G415	PKY16G715
	2P + t	50/60	200-250 V AC	6 h	PKY16M423	PKY16M723	PKY16F423	PKY16F723	PKY16G423	PKY16G723
	3P + t	50/60		9 h	PKY16M424	PKY16M724	PKY16F424	PKY16F724	PKY16G424	PKY16G724
	3P+N + t	50/60		9 h	PKY16M425	PKY16M725	PKY16F425	PKY16F725	PKY16G425	PKY16G725
	2P + t	50/60	380-415 V AC	9 h	PKY16M433	PKY16M733	PKY16F433	PKY16F733	PKY16G433	PKY16G733
	3P + t	50/60		6 h	PKY16M434	PKY16M734	PKY16F434	PKY16F734	PKY16G434	PKY16G734
	3P+N + t	50/60		6 h	PKY16M435	PKY16M735	PKY16F435	PKY16F735	PKY16G435	PKY16G735
	3P + t	50/60	480-500 V AC	7 h	PKY16M444	PKY16M744	PKY16F444	PKY16F744	PKY16G444	PKY16G744
	3P+N + t	50/60		7 h	PKY16M445	PKY16M745	PKY16F445	PKY16F745	PKY16G445	PKY16G745
	2P + t	50/60		4 h	PKY32M413	PKY32M713	PKY32F413	PKY32F713	PKY32G413	PKY32G713
32 A	3P + t	50/60	100-130 V AC	4 h	PKY32M414	PKY32M714	PKY32F414	PKY32F714	PKY32G414	PKY32G714
	3P+N + t	50/60		4 h	PKY32M415	PKY32M715	PKY32F415	PKY32F715	PKY32G415	PKY32G715
	2P + t	50/60		200-250 V AC	6 h	PKY32M423	PKY32M723	PKY32F423	PKY32F723	PKY32G423
	3P + t	50/60	9 h		PKY32M424	PKY32M724	PKY32F424	PKY32F724	PKY32G424	PKY32G724
	3P+N + t	50/60	9 h		PKY32M425	PKY32M725	PKY32F425	PKY32F725	PKY32G425	PKY32G725
	2P + t	50/60	380-415 V AC	9 h	PKY32M433	PKY32M733	PKY32F433	PKY32F733	PKY32G433	PKY32G733
	3P + t	50/60		6 h	PKY32M434	PKY32M734	PKY32F434	PKY32F734	PKY32G434	PKY32G734
	3P+N + t	50/60		6 h	PKY32M435	PKY32M735	PKY32F435	PKY32F735	PKY32G435	PKY32G735
	3P+N + t	50/60	380-440 V AC	3 h	-	PKY32M7C4	-	PKY32F7C4	-	PKY32G7C4
	3P + t	50/60		7 h	PKY32M444	PKY32M744	PKY32F444	PKY32F744	PKY32G444	PKY32G744
	3P+N + t	50/60		7 h	PKY32M445	PKY32M745	PKY32F445	PKY32F745	PKY32G445	PKY32G745
	Technical data, see page					28		32		

PratiKa sockets 63 - 125 A



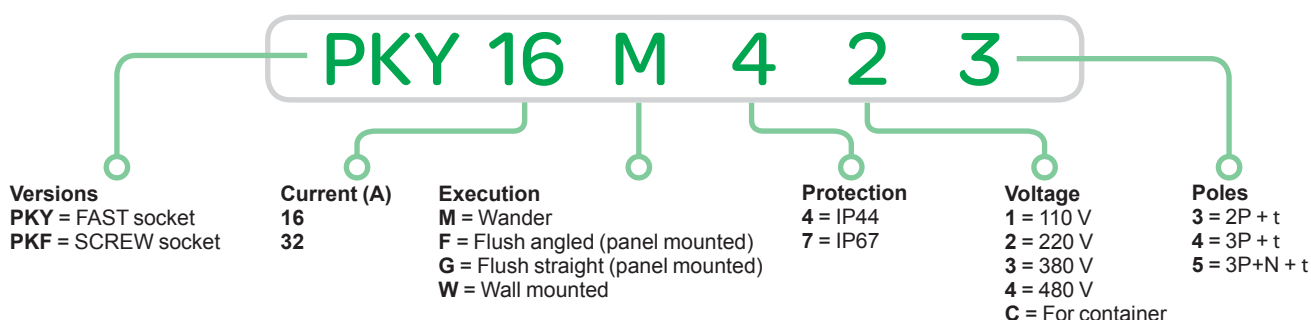
Rated current	Poles and wires	Freq. Hz	Rated voltage	Clock position of contact	Wander sockets	Wall-mounted sockets				
					SCREW connect	Angled SCREW connect	Straight SCREW connect	With back box SCREW connect		
					IP67	IP67	IP67	IP67		
63 A	3P + t	50/60	100-130 V AC	4 h	81476	81276	81676	81176		
	3P+N + t	50/60		4 h	81477	81277	81677	81177		
	2P + t	50/60		200-250 V AC	6 h	81478	81278	81678	81178	
	3P + t	50/60	9 h		81479	81279	81679	81179		
	3P+N + t	50/60	9 h		81480	81280	81680	81180		
	3P + t	50/60	380-415 V AC	6 h	81482	81282	81682	81182		
	3P+N + t	50/60		6 h	81483	81283	81683	81183		
	3P + t	50/60		480-500 V AC	7 h	81485	81285	81685	81185	
	3P+N + t	50/60	7 h		81486	81286	81686	81186		
	3P + t	50/60	4 h		81488	81288	81688	81188		
	125 A	3P+N + t	50/60	100-130 V AC	4 h	81489	81289	81689	81189	
		2P + t	50/60		200-250 V AC	6 h	81490	81290	81690	81190
3P + t		50/60	9 h			81491	81291	81691	81191	
3P+N + t		50/60	9 h	81492		81292	81692	81192		
3P + t		50/60	380-415 V AC	6 h	81494	81294	81694	81194		
3P+N + t		50/60		6 h	81495	81295	81695	81195		
3P + t		50/60		7 h	81497	81297	81697	81197		
3P+N + t		50/60	480-500 V AC	7 h	81498	81298	81698	81198		
Technical data, see page					28		29			
							33			
							30			

Wander sockets		Panel mounted sockets				Wall-mounted sockets				
SCREW connect		Angled SCREW connect		Straight SCREW connect		FAST connect	SCREW connect		With back box SCREW connect	
IP44	IP67	IP44	IP67	IP44	IP67	IP44	IP44	IP67	IP44	IP67
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
28		33				29			30	

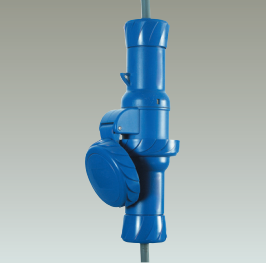

PratiKa sockets 10 - 16 A

Rated current	Poles and wires	Freq.	Rated voltage	Type							
					Domestic sockets 50 x 50			Domestic sockets 65 x 85			
					Code grey	Code blue	Code black	Code grey	Code blue	Code black	
					IP54	IP54	IP54	IP54	IP65	IP54	IP54
10 - 16 A	2P + t	50/60	200-250 V AC	Standard							
				Italy	-	-	-	-	81139	-	-
				French	-	-	-	-	81146	-	-
				Germany	PKN51G	PKN51B	PKN51N	PKN61G	81140	PKN61B	PKN61N
					PKN52G	PKN52B	PKN52N	PKN62G	-	PKN62B	PKN62N
				England	PKS51G	PKS51B	PKS51N	PKS61G	81141	PKS61B	PKS61N
				Switzerland	PKS52G	PKS52B	PKS52N	PKS62G	-	PKS62B	PKS62N
					-	-	-	-	81144	-	-
					-	-	-	-	81145	-	-
Description											
Support with 1 adapter RJ45 Infra+ (50/60 Hz)					-	-	-	-	81142	-	-
Support with 2 adapters RJ45 Infra+ (50/60 Hz)					-	-	-	-	81143	-	-
Technical data, see page					35						

Learn how to define your PratiKa : industrial sockets



Technical data

			FAST connection, without screws	SCREW connection
				
Main characteristics			Designed to supply fixed or movable equipment by a flexible cable.	
Degree of protection	According to IEC 60529	16 and 32 A	IP44 IP67	IP44 IP67
		63 and 125 A	-	IP67
	According to EN 62262	Against external mechanical impacts	IK08	IK08
Pilot contact			-	Available in the 63 A and 125 A
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C	850°C
Materials			Housing made of self-extinguishing polymer Sleeves made of brass	Housing made of self-extinguishing polymer b Sleeves made of brass for PratiKa series b Sleeves made of nickel-plated brass for PratiKa series
			Springs and pins made of stainless steel	Springs and pins made of stainless steel
Connection terminals			Without screws and without stripping the conductor	Captive screws, completely loosened

Connection

	FAST connection, without screws		SCREW connection		
Rating	Cable entry	Maximum cross section of conductors	Cable entry		Maximum cross section of conductors
(In)	IP44 / IP67 Fair-lead and cable clamp	IEC 60309-1/A1, 60309-2/A1 Stranded wire cables / flexible cables	IP44 / IP67 Fair-lead and cable clamp	IP67 Cable gland	Solid cables / stranded wire cables / flexible cables
16 A	8 - 15 mm	1 to 2.5 mm ²	8 - 15 mm	-	1 to 4 mm ²
32 A	11.5 - 21 mm	2.5 to 6 mm ²	11.5 - 21 mm	-	2.5 to 10 mm ²
63 A	-	-	-	17 - 31 mm / PG36	6 to 25 mm ²
125 A	-	-	-	26 - 48 mm / PG48	16 to 70 mm ²

Code of wander sockets

Rating	Rated voltage											
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC		
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
FAST connection, without screws												
IP44 16 A	PKY16M413	PKY16M414	PKY16M415	PKY16M423	PKY16M424	PKY16M425	PKY16M433	PKY16M434	PKY16M435	-	PKY16M444	PKY16M445
32 A	PKY32M413	PKY32M414	PKY32M415	PKY32M423	PKY32M424	PKY32M425	PKY32M433	PKY32M434	PKY32M435	-	PKY32M444	PKY32M445
IP67 16 A	PKY16M713	PKY16M714	PKY16M715	PKY16M723	PKY16M724	PKY16M725	PKY16M733	PKY16M734	PKY16M735	-	PKY16M744	PKY16M745
32 A	PKY32M713	PKY32M714	PKY32M715	PKY32M723	PKY32M724	PKY32M725	PKY32M733	PKY32M734	PKY32M735	-	PKY32M744	PKY32M745
SCREW connection												
IP44 16 A	PKF16M413	PKF16M414	PKF16M415	PKF16M423	PKF16M424	PKF16M425	PKF16M433	PKF16M434	PKF16M435	-	PKF16M444	PKF16M445
32 A	PKF32M413	PKF32M414	PKF32M415	PKF32M423	PKF32M424	PKF32M425	PKF32M433	PKF32M434	PKF32M435	-	PKF32M444	PKF32M445
IP67 16 A	PKF16M713	PKF16M714	PKF16M715	PKF16M723	PKF16M724	PKF16M725	PKF16M733	PKF16M734	PKF16M735	-	PKF16M744	PKF16M745
32 A	PKF32M713	PKF32M714	PKF32M715	PKF32M723	PKF32M724	PKF32M725	PKF32M733	PKF32M734	PKF32M735	-	PKF32M744	PKF32M745
63 A	-	81476	81477	81478	81479	81480	-	81482	81483	-	81485	81486
125 A	-	81488	81489	81490	81491	81492	-	81494	81495	-	81497	81498



PKY16M423



PKY16M733



PKF16M423





PKF16M733



81495

Technical data

			FAST connection, without screws	SCREW connection
				
Main characteristics			They can be wall-mounted to supply appliances with wander plugs. They are very compact in dimensions.	
Degree of protection	According to IEC 60529	16 and 32 A	IP44	IP44
	According to EN 62262	Against external mechanical impacts	- IK08	IP67 IK08
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	750°C	750°C
Materials			Housing made of self-extinguishing polymer Sleeves made of brass Screws, pins and springs made of stainless steel	Housing made of self-extinguishing polymer Sleeves made of brass Screws, pins and springs made of stainless steel
Connection terminals			Without screws and without stripping the conductor	Captive screws, completely loosened

Connection

		FAST connection, without screws			SCREW connection		
Rating	Cable diameter	Cable entry	Maximum cross section of conductors	Cable diameter	Cable entry	Maximum cross section of conductors	
(In)		IP44	IEC 60309-1/A1, 60309-2/A1 Stranded wire cables / flexible cables		IP44 / IP67	Solid cables / stranded wire cables / flexible cables	
16 A	Max 21,0 mm	M25 threaded nut	1 to 2.5 mm ²	Max 21,0 mm	M25 threaded nut+cable gland	1 to 4 mm ²	
32 A			2.5 to 6 mm ²			2.5 to 10 mm ²	

Code of Wall-mounted sockets

Rating	Rated voltage											
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC		
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
FAST connection												
IP44 16 A	PKY16W413	PKY16W414	PKY16W415	PKY16W423	PKY16W424	PKY16W425	PKY16W433	PKY16W434	PKY16W435	-	PKY16W444	PKY16W445
32 A	PKY32W413	PKY32W414	PKY32W415	PKY32W423	PKY32W424	PKY32W425	PKY32W433	PKY32W434	PKY32W435	-	PKY32W444	PKY32W445
SCREW connection												
IP44 16 A	PKF16W413	PKF16W414	PKF16W415	PKF16W423	PKF16W424	PKF16W425	PKF16W433	PKF16W434	PKF16W435	-	PKF16W444	PKF16W445
32 A	PKF32W413	PKF32W414	PKF32W415	PKF32W423	PKF32W424	PKF32W425	PKF32W433	PKF32W434	PKF32W435	-	PKF32W444	PKF32W445
SMALL - SCREW connection												
IP67 16 A	PKF16W713	PKF16W714	PKF16W715	PKF16W723	PKF16W724	PKF16W725	PKF16W733	PKF16W734	PKF16W735	-	PKF16W744	PKF16W745
32 A	PKF32W713	PKF32W714	PKF32W715	PKF32W723	PKF32W724	PKF32W725	PKF32W733	PKF32W734	PKF32W735	-	PKF32W744	PKF32W745



PKY32W435





PKF16W434



PKF32W734

Technical data

			Sockets with Back box	
				
Main characteristics			They can be wall-mounted to supply appliances with wander plugs.	
Degree of protection	According to IEC 60529	16 and 32 A	IP44	
		63 A and 125 A	IP67	
	According to EN 62262	Against external mechanical impacts	IK08	
Pilot contact			Available in the 63 A and 125 A	
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C	
Materials			Housing made of self-extinguishing polymer	
			Sleeves made of nickel-plated brass	
			Screws, pins and springs made of stainless steel	
Connection terminals			Captive screws, completely loosened	

Connection

		Sockets with Back box		
Rating (In)	Cable entry	Maximum cross section of conductors		
		IP44 / IP67 Fair-lead	IP67 Cable gland	Solid and stranded wire flexible cables
16 A	8 - 15 mm	PG16 (PG21 5P)	1 to 4 mm ²	
32 A	11.5 - 21 mm	PG21	2.5 to 10 mm ²	
63 A	-	PG36	6 to 25 mm ²	
125 A	-	PG48	16 to 70 mm ²	

Code of wall-mounted socket with Back box

Rating	Rated voltage												
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC			
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	
IP44 16 A	83101	83102	83103	83104	83105	83106	83107	83108	83109	-	83111	83112	
	32 A	83113	83114	83115	83116	83117	83118	83119	83120	83121	-	83123	83124
IP67 16 A	83151	83152	83153	83154	83155	83156	83157	83158	83159	-	83161	83162	
	32 A	83163	83164	83165	83166	83167	83168	83169	83170	83171	-	83173	83174
	63 A	-	81176	81177	81178	81179	81180	-	81182	81183	-	81185	81186
	125 A	-	81188	81189	81190	81191	81192	-	81194	81195	-	81197	81198

PG149166



83104

PG149171



83171

PG149143




81195

PratiKa sockets

Low voltage

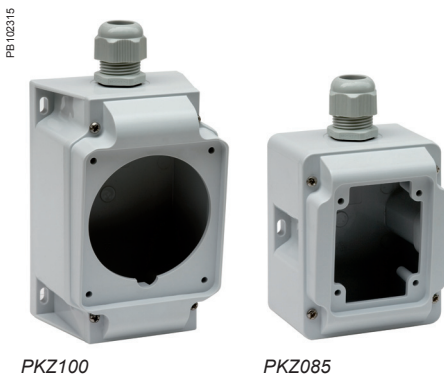
Back box wall-mounted for PratiKa panel and sockets

Technical data

			Back box wall-mounted
			
Main characteristics			They can be wall-mounted to supply appliances with wander plugs. The back box permit the use of panel sockets PratiKa, both screw and fast version, to create a wall installation with horizontal outlet.
Degree of protection	According to IEC 60529	16 and 32 A	IP44
	According to EN 62262	Against external mechanical impacts	IP67 (box + panel socket)
Pilot contact			IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	Available in the 63 A and 125 A 850°C
Materials			Housing made of self-extinguishing polymer Screws, made of stainless steel

Connection

		Back box wall-mounted
Rating (In)	16 A and 32 A	Cable entry
		IP44/IP67
		Cable diameter
		M25
		Max 21 mm
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		



Code of Back box wall mounted for fitting PratiKa panel sockets IP44 / IP67



Description poles	Code
Small sized BOX	
Permits the mounting of socket (16 A 3 or 4 poles) with flange 65 x 85	PKZ085
Big sized BOX	
Permits the mounting of socket (16 A 5 poles and 32 A 3 or 4 or 5 poles) with flange 90 x 100	PKZ100
Description poles	Code
Cable gland	
M25	PKZ025
M32	PKZ032



Example

PKZ100 + PKY16G734

Technical data

			FAST connection, without screws	
			Angled sockets	Straight sockets
				
Main characteristics			They can be mounted on a plate, panel or machine to supply appliance with wander plugs.	
Degree of protection	According to IEC 60529	16 and 32 A	IP44	IP44
	According to EN 62262	Against external mechanical impacts	IP67	IP67
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	IK08	IK08
Flange dimensions (IP44 - IP67)	16 A	2P + t	850°C	850°C
		3P + t	65 x 85 mm	65 x 85 mm
		3P+N + t	65 x 85 mm	65 x 85 mm
	32 A	2P + t	90 x 100 mm	90 x 100 mm
		3P + t	90 x 100 mm	90 x 100 mm
		3P+N + t	90 x 100 mm	90 x 100 mm
Materials		Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer	
		Sleeves made of brass	Sleeves made of brass	
		Pins and springs made of stainless steel	Pins and springs made of stainless steel	
Connection terminals		Without screws and without stripping the conductor	Without screws and without stripping the conductor	

Connection

			FAST connection, without screws	
			Angled sockets	Straight sockets
Rating			Maximum cross section of conductors	
(In)			IEC 60309-1/A1, 60309-2/A1 Stranded wire cables / flexible cables	
16 A			1 to 2.5 mm ²	1 to 2.5 mm ²
32 A			2.5 to 6 mm ²	2.5 to 6 mm ²

Code of panel-mounted angled and straight sockets

Rating	Rated voltage											
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC		
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
FAST connection, without screws - Angled sockets												
IP44 16 A	PKY16F413	PKY16F414	PKY16F415	PKY16F423	PKY16F424	PKY16F425	PKY16F433	PKY16F434	PKY16F435	-	PKY16F444	PKY16F445
32 A	PKY32F413	PKY32F414	PKY32F415	PKY32F423	PKY32F424	PKY32F425	PKY32F433	PKY32F434	PKY32F435	-	PKY32F444	PKY32F445
IP67 16 A	PKY16F713	PKY16F714	PKY16F715	PKY16F723	PKY16F724	PKY16F725	PKY16F733	PKY16F734	PKY16F735	-	PKY16F744	PKY16F745
32 A	PKY32F713	PKY32F714	PKY32F715	PKY32F723	PKY32F724	PKY32F725	PKY32F733	PKY32F734	PKY32F735	-	PKY32F744	PKY32F745
FAST connection, without screws - Straight sockets												
IP44 16 A	PKY16G413	PKY16G414	PKY16G415	PKY16G423	PKY16G424	PKY16G425	PKY16G433	PKY16G434	PKY16G435	-	PKY16G444	PKY16G445
32 A	PKY32G413	PKY32G414	PKY32G415	PKY32G423	PKY32G424	PKY32G425	PKY32G433	PKY32G434	PKY32G435	-	PKY32G444	PKY32G445
IP67 16 A	PKY16G713	PKY16G714	PKY16G715	PKY16G723	PKY16G724	PKY16G725	PKY16G733	PKY16G734	PKY16G735	-	PKY16G744	PKY16G745
32 A	PKY32G713	PKY32G714	PKY32G715	PKY32G723	PKY32G724	PKY32G725	PKY32G733	PKY32G734	PKY32G735	-	PKY32G744	PKY32G745



PKY16F423



PKY32F734





PKY16G423



PKY32G734

Technical data

			SCREW connection	
			Angled sockets	Straight sockets
				
Main characteristics			They can be mounted on a plate, panel or machine to feed appliances with wander plugs.	
Degree of protection	According to IEC 60529	16 and 32 A	IP44	IP44
		63 and 125 A	IP67	IP67
	According to EN 62262	Against external mechanical impacts	IK08	IK08
Pilot contact			Available in the 63 A and 125 A	Available in the 63 A and 125 A
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C	850°C
Flange dimensions (IP44 - IP67)	16 A	2P + t, 3P + t	65 x 85 mm	65 x 85 mm
	32 A	3P+N + t	90 x 100 mm	90 x 100 mm
	63 A		100 x 107 mm	100 x 107 mm
	125 A		110 x 114 mm	110 x 114 mm
Materials			Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer
			Sleeves made of brass for 16 A and 32 A	-
			Sleeves made of nickel-plated brass for 63 A and 125 A	-
			Pins and springs made of stainless steel	Pins and springs made of stainless steel
Connection terminals			Captive screws, completely loosened	Captive screws, completely loosened

Connection

		SCREW connection	
		Angled sockets	Straight sockets
Rating		Maximum cross section of conductors	
(In)		Solid cables / stranded wire cables / flexible cables	
16 A		1 to 4 mm ²	1 to 4 mm ²
32 A		2.5 to 10 mm ²	2.5 to 10 mm ²
63 A		6 to 25 mm ²	6 to 25 mm ²
125 A		16 to 70 mm ²	16 to 70 mm ²

Code of panel-mounted angled and straight sockets

Rating	Rated voltage											
	100 - 130 V AC			200 - 250 V AC			380 - 415 V AC			480 - 500 V AC		
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t

SCREW connection - Angled sockets

IP44	16 A	PKF16F413	PKF16F414	PKF16F415	PKF16F423	PKF16F424	PKF16F425	PKF16F433	PKF16F434	PKF16F435	-	PKF16F444	PKF16F445
	32 A	PKF32F413	PKF32F414	PKF32F415	PKF32F423	PKF32F424	PKF32F425	PKF32F433	PKF32F434	PKF32F435	-	PKF32F444	PKF32F445
IP67	16 A	PKF16F713	PKF16F714	PKF16F715	PKF16F723	PKF16F724	PKF16F725	PKF16F733	PKF16F734	PKF16F735	-	PKF16F744	PKF16F745
	32 A	PKF32F713	PKF32F714	PKF32F715	PKF32F723	PKF32F724	PKF32F725	PKF32F733	PKF32F734	PKF32F735	-	PKF32F744	PKF32F745
	63 A	-	81276	81277	81278	81279	81280	-	81282	81283	-	81285	81286
125 A	-	81288	81289	81290	81291	81292	-	81294	81295	-	81297	81298	

SCREW connection - Straight sockets

IP44	16 A	PKF16G413	PKF16G414	PKF16G415	PKF16G423	PKF16G424	PKF16G425	PKF16G433	PKF16G434	PKF16G435	-	PKF16G444	PKF16G445
	32 A	PKF32G413	PKF32G414	PKF32G415	PKF32G423	PKF32G424	PKF32G425	PKF32G433	PKF32G434	PKF32G435	-	PKF32G444	PKF32G445
IP67	16 A	PKF16G713	PKF16G714	PKF16G715	PKF16G723	PKF16G724	PKF16G725	PKF16G733	PKF16G734	PKF16G735	-	PKF16G744	PKF16G745
	32 A	PKF32G713	PKF32G714	PKF32G715	PKF32G723	PKF32G724	PKF32G725	PKF32G733	PKF32G734	PKF32G735	-	PKF32G744	PKF32G745
	63 A	-	81676	81677	81678	81679	81680	-	81682	81683	-	81685	81686
125 A	-	81688	81689	81690	81691	81692	-	81694	81695	-	81697	81698	



PKF16F423



PKF32F734



81283



PKF16G423




PKF32G734



81683

Technical data

			Multiple adapters
			
Main characteristics			They can be used for temporary situations only and in certain industrial environments where there is no danger of explosions or fire.
Degree of protection	According to IEC 60529	16 and 32 A	IP44 IP67
	According to EN 62262	Against external mechanical impacts	IK08
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
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C
Conceived in conformity with standards			IEC 60309-1, IEC 60309-2 and IEC 60309-4
Materials			Housing made of self-extinguishing polymer Pins made of nickel-plated brass Sleeves made of brass Stainless steel screw

Code of multiple adapter - 1 Plug + 2 Socket-outlets

Plug side			Socket side				
Rating	Poles	Rated voltage	No.	Rating	Poles	Rated voltage	
IP44 16 A	2P + t	100 - 130 V AC	2	16 A	2P + t	100 - 130 V AC	PKZM401
		200 - 250 V AC	2	16 A	2P + t	200 - 250 V AC	PKZM403
		380 - 415 V AC	2	16 A	2P + t	380 - 415 V AC	PKZM405
	3P + t		2	16 A	3P + t		PKZM406
IP67 16 A	2P + t	100 - 130 V AC	2	16 A	2P + t	100 - 130 V AC	PKZM701
		200 - 250 V AC	2	16 A	2P + t	200 - 250 V AC	PKZM703
		380 - 415 V AC	2	16 A	2P + t	380 - 415 V AC	PKZM705
	3P + t		2	16 A	3P + t		PKZM706

Code of multiple adapter - 1 Plug + 3 Socket-outlets

Plug side			Socket side				
Rating	Poles	Rated voltage	No.	Rating	Poles	Rated voltage	
IP44 16 A	2P + t	100 - 130 V AC	3	16 A	2P + t	100 - 130 V AC	PKZM407
		200 - 250 V AC	3	16 A	2P + t	200 - 250 V AC	PKZM409
		380 - 415 V AC	3	16 A	3P + t	380 - 415 V AC	PKZM412
32 A	3P+N + t		2	16 A	2P + t	200 - 250 V AC	PKZM413
			1	32 A	3P+N + t	380 - 415 V AC	
IP67 16 A	2P + t	100 - 130 V AC	3	16 A	2P + t	100 - 130 V AC	PKZM707
		200 - 250 V AC	3	16 A	2P + t	200 - 250 V AC	PKZM709
		380 - 415 V AC	3	16 A	2P + t	380 - 415 V AC	PKZM712
32 A	3P+N + t		2	16 A	3P + t	200 - 250 V AC	PKZM713
			1	32 A	3P+N + t	380 - 415 V AC	



PKZM403



PKZM712

Functions

They are available in the panel-mounted versions and can be fitted directly on Kaedra enclosures or on wall-boxes.

Technical data

Main characteristics		
Degree of protection	According to IEC 60529	IP54 and IP65
	According to EN 62262	Against external mechanical impacts IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test 850°C
Materials	Housing made of self-extinguishing polymer Pins and springs made of stainless steel Spring loaded cover	
Colors	Blue, black or gray (RAL 7035)	



81139



81140



81141



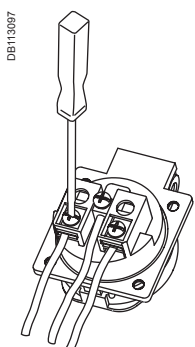
81142



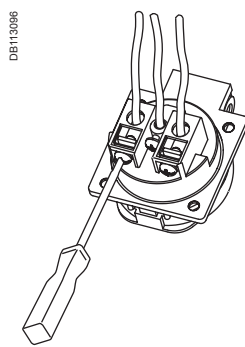
PKS52B



PKS61B



PKS51G
Version with back tightening terminals



PKS52G
Version with side tightening terminals

Code for domestic sockets 65 x 85 - IP65

Rating	Rated voltage	Type	Number of sockets	Code grey
	250 V AC			
Poles	2P + t	Standard		
10 - 16 A		Italy	2	81139
			1 (dual - use)	81146
		French	1	81140
		Germany	1	81141
		England	1	81144
		Switzerland	1	81145

Code for RJ 45 support 65 x 85 - IP65

Description	Code grey
With 1 adapter RJ45 Infra+	81142
With 2 adapters RJ45 Infra+	81143

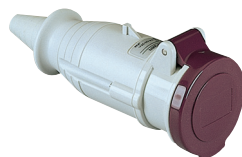
Code for domestic sockets 50 x 50 - IP54

Rating	Rated voltage	Type	Code		
	250 V AC				
Poles	2P + t	Standard	Grey	Blue	Black
With back tightening terminals					
10 - 16 A		Germany	PKS51G	PKS51B	PKS51N
		French	PKN51G	PKN51B	PKN51N
With side tightening terminals					
10 - 16 A		Germany	PKS52G	PKS52B	PKS52N
		French	PKN52G	PKN52B	PKN52N

Code for domestic sockets 65 x 85 - IP54

Rating	Rated voltage	Type	Code		
	250 V AC				
Poles	2P + t	Standard	Grey	Blue	Black
With back tightening terminals					
10 - 16 A		Germany	PKS61G	PKS61B	PKS61N
		French	PKN61G	PKN61B	PKN61N
With side tightening terminals					
10 - 16 A		Germany	PKS62G	PKS62B	PKS62N
		French	PKN62G	PKN62B	PKN62N

Sockets 16 - 32 A



Rated current	Poles and wires	Freq. Hz	Rated voltage	Clock position of secondary keyway	Wander sockets	
					IP44	IP67
16 A	2P	50/60	20-25 V	s.r.	82401	82451
	3P	50/60		s.r.	82402	82452
	2P	50/60	40-50 V	12 h	82403	82453
	3P	50/60		12 h	82404	82454
	2P	100/200	20-25 V / 40-50 V	4 h	82405	82455
	3P	100/200		4 h	82406	82456
	2P	401/500		11 h	82411	82461
	3P	401/500		11 h	82412	82462
32 A	2P	c	20-25 V / 40-50 V	10 h	82413	82463
	2P	50/60	20-25 V	s.r.	82415	82465
	3P	50/60		s.r.	82416	82466
	2P	50/60	40-50 V	12 h	82417	82467
	3P	50/60		12 h	82418	82468
	2P	100/200	20-25 V / 40-50 V	4 h	82419	82469
	3P	100/200		4 h	82420	82470
	2P	401/500		11 h	82425	82475
	3P	401/500		11 h	82426	82476
	2P	c	20-25 V / 40-50 V	10 h	82427	82477
Technical data, see page					38	

Sockets with safety transformer

Unika



Rated power	Rated voltage		Number and type of sockets	Panel mounted version		Wall-mounted version	
	Primary	Secondary		IP44	IP65	IP44	IP65
160 VA	230 V	24 V	1 x 2P 16 A	82026	82076	83026	83076
	400 V	24 V	1 x 2P 16 A	82027	82077	83027	83077
	230 V	24 V	-	-	-	-	-
	400 V	24 V	-	-	-	-	-
Technical data, see page				44			



Panel-mounted straight sockets
Flange 65 x 65

Wall-mounted sockets

IP44

IP67

IP44

IP44

82901

82951

82101

82151

82902

82952

82102

82152

82903

82953

82103

82153

82904

82954

82104

82154

82905

82955

82105

82155

82906

82956

82106

82156

82911

82961

82111

82161

82912

82962

82112

82162

82913

82963

82113

82163

82915

82965

82115

82165

82916

82966

82116

82166

82917

82967

82117

82167

82918

82968

82118

82168

82919

82969

82119

82169

82920

82970

82120

82170

82925

82975

82125

82175

82926

82976

82126

82176

82927

82977

82127

82177

39

Isoblock



Number and type of sockets

Wall-mounted version

IP65

1 x 2P 16 A

82061

1 x 2P 16 A

82063

2 x 2P 16 A

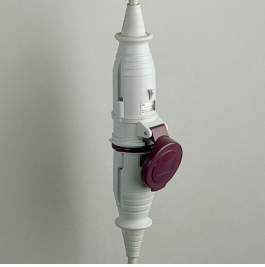
82062

2 x 2P 16 A

82064

49

Technical data

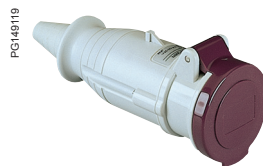
			Wander sockets	
				
Main characteristics			Designed to supply fixed or movable equipments by a flexible cable.	
Degree of protection	According to IEC 60529	16 and 32 A	IP44	
	According to EN 62262	Against external mechanical impacts	IP67	
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	IK08	
			850°C	
Materials			Housing made of self-extinguishing polymer	
			Sleeves made of nickel-plated brass	
			Screws, pins and springs made of stainless steel	
Connection terminals			Captive screws, completely loosened	

Connection

			Wander sockets		
Rating (In)	Cable entry		Maximum cross section of conductors		
	IP44 / IP67 Fair-lead	IP67 Cable gland	Solid and stranded wire flexible cables		
16 A	6 - 23 mm	PG21	4 to 10 mm ²		
32 A	6 - 23 mm	PG21	4 to 10 mm ²		

Code of wander sockets

Rating	Rated voltage											
	20-25 V 50/60 Hz		40-50 V 50/60 Hz		20-25 V / 40-50 V 100-200 Hz				20-25 V / 40-50 V 401-500 Hz		20-25 V / 40-50 V c	
Poles and wires	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P
IP44 16 A	82401	82402	82403	82404	82405	82406	82411	82412	82413	-	-	-
	82415	82416	82417	84518	82419	82420	82425	82426	82427	-	-	-
IP67 16 A	82451	82452	82453	82454	82455	82456	82461	82462	82463	-	-	-
	82465	82466	82467	82468	82469	82470	82475	82476	82477	-	-	-





82402



82468

Technical data

			Panel-mounted sockets	Wall-mounted sockets
				
Main characteristics			They can be mounted on a plate, panel or machine to supply appliances with wander plugs.	They can be wall-mounted to supply appliances with wander plugs.
Degree of protection	According to IEC 60529	16 and 32 A	IP44 IP67	IP44 IP67
	According to EN 62262	Against external mechanical impacts	IK08	IK08
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C	850°C
Materials			Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer
			Sleeves made of nickel-plated brass	Sleeves made of nickel-plated brass
			Screws, pins and springs made of stainless steel	Screws, pins and springs made of stainless steel
Connection terminals			Captive screws, completely loosened	Captive screws, completely loosened

Connection

Rating (In)	Panel-mounted sockets	Wall-mounted sockets		
	Maximum cross section of conductors Solid and stranded wire flexible cables	Cable entry IP44 / IP67 Fair-lead	IP67 Cable gland	Maximum cross section of conductors Solid and stranded wire flexible cables
16 A	1 to 2,5 mm ²	6 - 23 mm	PG21	4 to 10 mm ²
32 A	2,5 to 6 mm ²	6 - 23 mm	PG21	4 to 10 mm ²

Code of panel-mounted sockets

Rating	Rated voltage											
	20-25 V 50/60 Hz		40-50 V 50/60 Hz		20-25 V / 40-50 V 100-200 Hz				401-500 Hz		20-25 V / 40-50 V c	
Poles and wires	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P

Flange 65 x 65 mm

IP44 16 A	82901	82902	82903	82904	82905	82906	82911	82912	82913	-
32 A	82915	82916	82917	84918	82919	82920	82925	82926	82927	-
IP67 16 A	82951	82952	82953	82954	82955	82956	82961	82962	82963	-
32 A	82965	82966	82967	82968	82969	82970	82975	82976	82977	-

Code of wall-mounted sockets

Rating	Rated voltage											
	20-25 V 50/60 Hz		40-50 V 50/60 Hz		20-25 V / 40-50 V 100-200 Hz				401-500 Hz		20-25 V / 40-50 V c	
Poles and wires	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P	2P	3P
IP44 16 A	82101	82102	82103	82104	82105	82106	82111	82112	82113	-		
32 A	82115	82116	82117	84118	82119	82120	82125	82126	82127	-		
IP67 16 A	82151	82152	82153	82154	82155	82156	82161	82162	82163	-		
32 A	82165	82166	82167	82168	82169	82170	82175	82176	82177	-		



82901



82954



82101



82168

PratiKa sockets

With interlock switch

Unika - Isoblock / Selection guide

Sockets with interlock switch

Unika - Panel-mounted version



Rated nominal	Poles and wires	Freq. Hz	Rated voltage	Clock position of contact	Without protection			Protected by FUSE carrier			With DIN rail
					IP44	IP65	IP65	IP44	IP65	IP65	IP65
16 A	2P + t	50/60	100-130 V	4 h	82028	82078	-	82128	82178	-	-
	3P + t	50/60		4 h	82029	82079	-	82129	82179	-	-
	3P+N + t	50/60		4 h	82030	82080	-	82130	82180	-	-
	2P + t	50/60	200-250 V	6 h	82031	82081	-	82132	82181	-	-
	3P + t	50/60		9 h	82032	82082	-	82133	82182	-	-
	3P+N + t	50/60		9 h	82033	82083	-	82133	82183	-	-
	2P + t	50/60	380-415 V	9 h	82034	82084	-	82134	82184	-	-
	3P + t	50/60		6 h	82035	82085	-	82135	82185	-	-
	3P+N + t	50/60		6 h	82036	82086	-	82136	82186	-	-
	3P + t	50/60	480-500 V	7 h	82037	82087	-	82137	82187	-	-
	3P+N + t	50/60		7 h	82038	82088	-	82138	82188	-	-
	32 A	2P + t	50/60	100-130 V	4 h	82039	82089	-	82139	82189	-
3P + t		50/60	4 h		82040	82090	-	82140	82190	-	-
3P+N + t		50/60	4 h		82041	82091	-	82141	82191	-	-
2P + t		50/60	200-250 V	6 h	82042	82092	-	82142	82192	-	-
3P + t		50/60		9 h	82043	82093	-	82143	82193	-	-
3P+N + t		50/60		9 h	82044	82094	-	82144	82194	-	-
2P + t		50/60	380-415 V	9 h	82045	82095	-	82145	82195	-	-
3P + t		50/60		6 h	82046	82096	-	82146	82196	-	-
3P+N + t		50/60		6 h	82047	82097	-	82147	82197	-	-
3P+N + t		50/60	380-440 V	3 h	-	-	-	-	-	-	-
3P + t		50/60		7 h	82048	82098	-	82148	82198	-	-
3P+N + t		50/60	480-500 V	7 h	82049	82099	-	82149	82199	-	-
3P + t	50/60	7 h		-	-	-	-	-	-	-	
63 A	3P + t	50/60	100-130 V	4 h	-	-	PKB63T514	-	-	PKB63V514	PKB63U514
	3P+N + t	50/60		4 h	-	-	PKB63T515	-	-	PKB63V515	PKB63U515
	2P + t	50/60		6 h	-	-	PKB63T523	-	-	PKB63V523	PKB63U523
	3P + t	50/60	200-250 V	9 h	-	-	PKB63T524	-	-	PKB63V524	PKB63U524
	3P+N + t	50/60		9 h	-	-	PKB63T525	-	-	PKB63V523	PKB63U525
	3P + t	50/60		6 h	-	-	PKB63T534	-	-	PKB63V534	PKB63U534
	3P+N + t	50/60	380-415 V	6 h	-	-	PKB63T535	-	-	PKB63V535	PKB63U535
	3P + t	50/60		7 h	-	-	PKB63T544	-	-	-	PKB63U544
	3P+N + t	50/60		7 h	-	-	PKB63T545	-	-	-	PKB63U545

Technical data, see page

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Sockets with safety transformer

Unika - Panel-mounted version



Rated power VA	Number and type of sockets	Rated voltage		IP44	IP65
		Primary	Secondary		
16 A	1 x 2P 16 A	230 V	24 V	82026	82076
	1 x 2P 16 A	400 V		82027	82077

Technical data, see page

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Wall and embedded box

Unika - Panel-mounted version



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	-

Technical data, see page

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Unika - Wall-mounted version							Isoblock - Wall-mounted version				
Without protection			Protected by FUSE carrier			With DIN rail	Protected by FUSE carrier With LED		With DIN rail		
IP44	IP65	IP65	IP44	IP65	IP65	IP65	IP65	IP65	IP65	IP65	
83028	83078	-	83128	83178	-	-	83451 v	-	82751 v	-	
83029	83079	-	83129	83179	-	-	83452 v	-	82752 v	-	
83030	83080	-	83130	83180	-	-	83453 v	-	82753 v	-	
83031	83081	-	83131	83181	-	-	83454 v	83354 v	82754 v	-	
83032	83082	-	83132	83182	-	-	83455 v	-	82755 v	-	
83033	83083	-	83133	83183	-	-	83456 v	-	82756 v	-	
83034	83084	-	83134	83184	-	-	83457 v	-	82757 v	-	
83035	83085	-	83135	83185	-	-	83458 v	83358 v	82758 v	-	
83036	83086	-	83136	83186	-	-	83459 v	83359 v	82759 v	-	
83037	83087	-	83137	83187	-	-	83461 v	-	82761 v	-	
83038	83088	-	83138	83188	-	-	83462 v	-	82762 v	-	
83039	83089	-	83139	83189	-	-	83463 v	-	83788 v	82763 b	
83040	83090	-	83140	83190	-	-	83464 v	-	83789 v	82764 b	
83041	83091	-	83141	83191	-	-	83465 v	-	83790 v	82765 b	
83042	83092	-	83142	83192	-	-	83466 v	83366 v	83791 v	82766 b	
83043	83093	-	83143	83193	-	-	83467 v	-	83792 v	82767 b	
83044	83094	-	83144	83194	-	-	83468 v	-	83793 v	82768 b	
83045	83095	-	83145	83195	-	-	83469 v	-	83794 v	82769 b	
83046	83096	-	83146	83196	-	-	83470 v	83370 v	83795 v	82770 b	
83047	83097	-	83147	83197	-	-	83471 v	83371 v	83796 v	82771 b	
-	83299	-	-	83399	-	-	-	-	83799 v	-	
83048	83098	-	83148	83198	-	-	83473 v	-	83797 v	82773 b	
83049	83099	-	83149	83199	-	-	83474 v	-	83798 v	82774 b	
-	-	PKB63P514	-	-	PKB63R514	PKB63Q514	82876 b	-	-	82776 b	
-	-	PKB63P515	-	-	PKB63R515	PKB63Q515	82877 b	-	-	82777 b	
-	-	PKB63P523	-	-	PKB63R523	PKB63Q523	82878 b	-	-	82778 b	
-	-	PKB63P524	-	-	PKB63R524	PKB63Q524	82879 b	-	-	82779 b	
-	-	PKB63P525	-	-	PKB63R525	PKB63Q525	82880 b	-	-	82780 b	
-	-	PKB63P534	-	-	PKB63R534	PKB63Q534	82882 b	-	-	82782 b	
-	-	PKB63P535	-	-	PKB63R535	PKB63Q535	82883 b	-	-	82783 b	
-	-	PKB63P544	-	-	-	PKB63Q544	82885 b	-	-	82785 b	
-	-	PKB63P545	-	-	-	PKB63Q545	82886 b	-	-	82786 b	
43							48				

Unika - Wall-mounted version			Isoblock - Wall-mounted version		
IP44	IP65		IP65		IP65
83026	83076	1P	82061 b		82062 b
83027	83077	2P	82063 b		82064 b
44			49		

Unika - Wall-mounted version					Isoblock - Wall-mounted version			
Wall mounting box		Modular basis			Modular panels			
16 - 32 A	63 A			Number and type sockets	With junction box	With modular enclosures		
-	-	-	-	1 x B16	83925 v	83325 v		
83919	-	-	-	2 x B16	83926 v	83326 v		
83920	PKB002	-	-	-	-	-		
-	-	83921	-	1 x 32/63	83927 b	83327 b		
-	-	-	83922	-	-	-		
-	-	-	-	83923	-	-		
46		47			50			

v = Sockets 106 mm width. b = Sockets 144 mm width.

Pratika sockets

With interlock switch

Unika series / Panel-mounted version

Technical data

		Protected by disconnect fuse carriers	Without protection / DIN rail
		Their technical, functional and aesthetic qualities make them particularly suitable for installation in the tertiary and industry sectors.	
Main characteristics		The switch can be externally padlocked into position "0" and "1".	
Construction	According to IEC 60309-2-4	IP44 and IP65	IP44 and IP65
Degree of protection	According to IEC 60529	IP44 and IP65	IP44 and IP65
	According to EN 62262	Against external mechanical impacts	IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	750°C
Operating voltage (400 V)	According to IEC 60947-3	16 A	20 A (AC22) / 9.5 kW (AC23A)
		32 A	32 A (AC22) / 16 kW (AC23A)
		63 A	63 A (AC22) / 22 kW (AC23A) / 15.5 kW (AC23)
Disconnect fuse carriers	Complying with IEC 60269	For CH 10,3 x 38 type fuse	-
Fuse holder version	Fuse holders NEOZED type D02 (non supplied with the product) The door to accede to the fuse holders can be:	b	-
		Opened only with the switch in position "0"	-
		Equipped with key-lock (available as accessory) in its handle	-
DIN rail version	DIN rail up to 4,5 modules The door to accede to the modular devices can be:	-	b DIN rail up to 4,5 modules
		-	Opened only when the switch is on the "0" position
		-	Equipped with key-lock (available as accessory) in its handle
Materials		Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer
		External pins, pins and screws made of stainless steel	External pins, pins and screws made of stainless steel
Colour		RAL 7035	RAL 7035
Connection terminals		Captive screws	Captive screws

Connection

	Protected by disconnect fuse carriers	Without protection
Rating (In)	Maximum cross section of conductors	
16 A, 32 A	10 mm ²	10 mm ²
63 A	35 mm ²	35 mm ²

Code of panel-mounted sockets Unika

Rating	Rated voltage											
	100 - 130 V			200 - 250 V			380 - 415 V			480 - 500 V		
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
Protected by disconnect fuse carriers												
IP44 16 A	82128	82129	82130	82131	82132	82133	82134	82135	82136	-	82137	82138
32 A	82139	82140	82141	82142	82143	82144	82145	82146	82147	-	82148	82149
IP65 16 A	82178	82179	82180	82181	82182	82183	82184	82185	82186	-	82187	82188
32 A	82189	82190	82191	82192	82193	82194	82195	82196	82197	-	82198	82199
63 A	-	PKB63V514	PKB63V515	PKB63V523	PKB63V524	PKB63V525	-	PKB63V534	PKB63V535	-	-	-
With DIN rail												
IP65 63 A	-	PKB63U514	PKB63U515	PKB63U523	PKB63U524	PKB63U525	-	PKB63U534	PKB63U535	-	PKB63U544	PKB63U545
Without protection												
IP44 16 A	82028	82029	82030	82031	82032	82033	82034	82035	82036	-	82037	82038
32 A	82039	82040	82041	82042	82043	82044	82045	82046	82047	-	82048	82049
IP65 16 A	82078	82079	82080	82081	82082	82083	82084	82085	82086	-	82087	82088
32 A	82089	82090	82091	82092	82093	82094	82095	82096	82097	-	82098	82099
63 A	-	PKB63T514	PKB63T515	PKB63T523	PKB63T524	PKB63T525	-	PKB63T534	PKB63T535	-	PKB63T544	PKB63T545



PratiKa sockets

With interlock switch

Unika series / Wall-mounted version

Technical data

		Protected by disconnect fuse carriers	Without protection / DIN rail
		Their technical, functional and aesthetic qualities make them particularly suitable for installation in the tertiary and industry sectors.	
Main characteristics		The switch can be externally padlocked into position "0" and "1".	
Construction	According to IEC 60309-2-4	IP44 and IP65	IP44 and IP65
Degree of protection	According to IEC 60529	IP44 and IP65	IP44 and IP65
	According to EN 62262	Against external mechanical impacts	IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	750°C
Operating voltage (400 V)	According to IEC 60947-3	16 A	20 A (AC22) / 9.5 kW (AC23A)
		32 A	32 A (AC22) / 16 kW (AC23A)
		63 A	63 A (AC22) / 22 kW (AC23A) / 15.5 kW (AC23)
Disconnect fuse carriers	Complying with IEC 60269	For CH 10,3 x 38 type fuse	-
Fuse holder version	Fuse holders NEOZED type D02 (non supplied with the product)	b	-
	The door to accede to the fuse holders can be:	Opened only with the switch in position "0"	-
DIN rail version	DIN rail up to 4,5 modules	-	b DIN rail up to 4,5 modules
	The door to accede to the modular devices can be:	-	Opened only when the switch is on the "0" position
		-	Equipped with key-lock (available as accessory) in its handle
Wall-mounted version		Cable entry (from the top)	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
Materials		Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer
		External pins, pins and screws made of stainless steel	External pins, pins and screws made of stainless steel
Colour		RAL 7035	RAL 7035
Connection terminals		Captive screws	Captive screws

Connection

		Protected by disconnect fuse carriers	Without protection
Rating (In)		Maximum cross section of conductors	
16 A, 32 A		10 mm ²	10 mm ²
63 A		35 mm ²	35 mm ²

Code of wall-mounted sockets Unika

Rating	Rated voltage												
	100 - 130 V			200 - 250 V			380 - 415 V			480 - 500 V			
Poles and wires	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	
Protected by disconnect fuse carriers													
IP44 16 A	83128	83129	83130	83131	83132	83133	83134	83135	83136	-	83137	83138	
	32 A	83139	83140	83141	83142	83143	83144	83145	83146	83147	-	83148	83149
IP65 16 A	83178	83179	83180	83181	83182	83183	83184	83185	83186	-	83187	83188	
	32 A	83189	83190	83191	83192	83193	83194	83195	83196	83197	-	83198	83199
	63 A	-	PKB63R514	PKB63R515	PKB63R523	PKB63R524	PKB63R525	-	PKB63R534	PKB63R535	-	-	-
With DIN rail													
IP65 63 A	-	PKB63Q514	PKB63Q515	PKB63Q523	PKB63Q524	PKB63Q525	-	PKB63Q534	PKB63Q535	-	PKB63Q544	PKB63Q545	
Without protection													
IP44 16 A	83028	83029	83030	83031	83032	83033	83034	83035	83036	-	83037	83038	
	32 A	83039	83040	83041	83042	83043	83044	83045	83046	83047	-	83048	83049
IP65 16 A	83078	83079	83080	83081	83082	83083	83084	83085	83086	-	83087	83088	
	32 A	83089	83090	83091	83092	83093	83094	83095	83096	83097	-	83098	83099
	63 A	-	PKB63P514	PKB63P515	PKB63P523	PKB63P524	PKB63P525	-	PKB63P534	PKB63P535	-	PKB63P544	PKB63P545




PratiKa sockets


With interlock switch

Unika series / Panel-mounted and wall-mounted version

Technical data

			Unika with safety transformer SELV 
			Units fitted with safety transformers, in conformity with IEC742 standards.
Main characteristics			Their modular size enables them to be used with all the components of the PratiKa Unika series. They are used to power circuits with a voltage rating of 50 V maximum, to protect users against direct and indirect contacts, in conformity with IEC 60364 standards.
Degree of protection	According to IEC 60529		IP44 and IP65
	According to EN 62262	Against external mechanical impacts	IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	750°C
The unit is rated	According to IEC 61558-2-6		Class II
Rated power of safety transformer	160 VA under continuous use		
Operating voltage	230: 24 V 400: 24 V		
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		
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		
Materials	Housing made of self-extinguishing polymer Screws pins and springs made of stainless steel		
Colour	RAL 7035		
Connection terminals	Captive screws		

Connection

		Unika with safety transformer SELV 
Rating (In)		Maximum cross section of conductors
160 VA		6 mm ²

Code of panel-mounted Unika with safety transformer

Rated power	Rated voltage		Number and type of sockets	Code
	Primary	Secondary		
IP44 160 VA	230 V	24 V	1 x 16 A	82026
	400 V	24 V		
IP65 160 VA	230 V	24 V	1 x 16 A	82076
	400 V	24 V		

Code of wall-mounted Unika with safety transformer

Rated power	Rated voltage		Number and type of sockets	Code
	Primary	Secondary		
IP44 160 VA	230 V	24 V	1 x 16 A	83026
	400 V	24 V		
IP65 160 VA	230 V	24 V	1 x 16 A	83076
	400 V	24 V		

PG 148095



82026

PG 148096



82076

PG 148097



83026

PG 148098

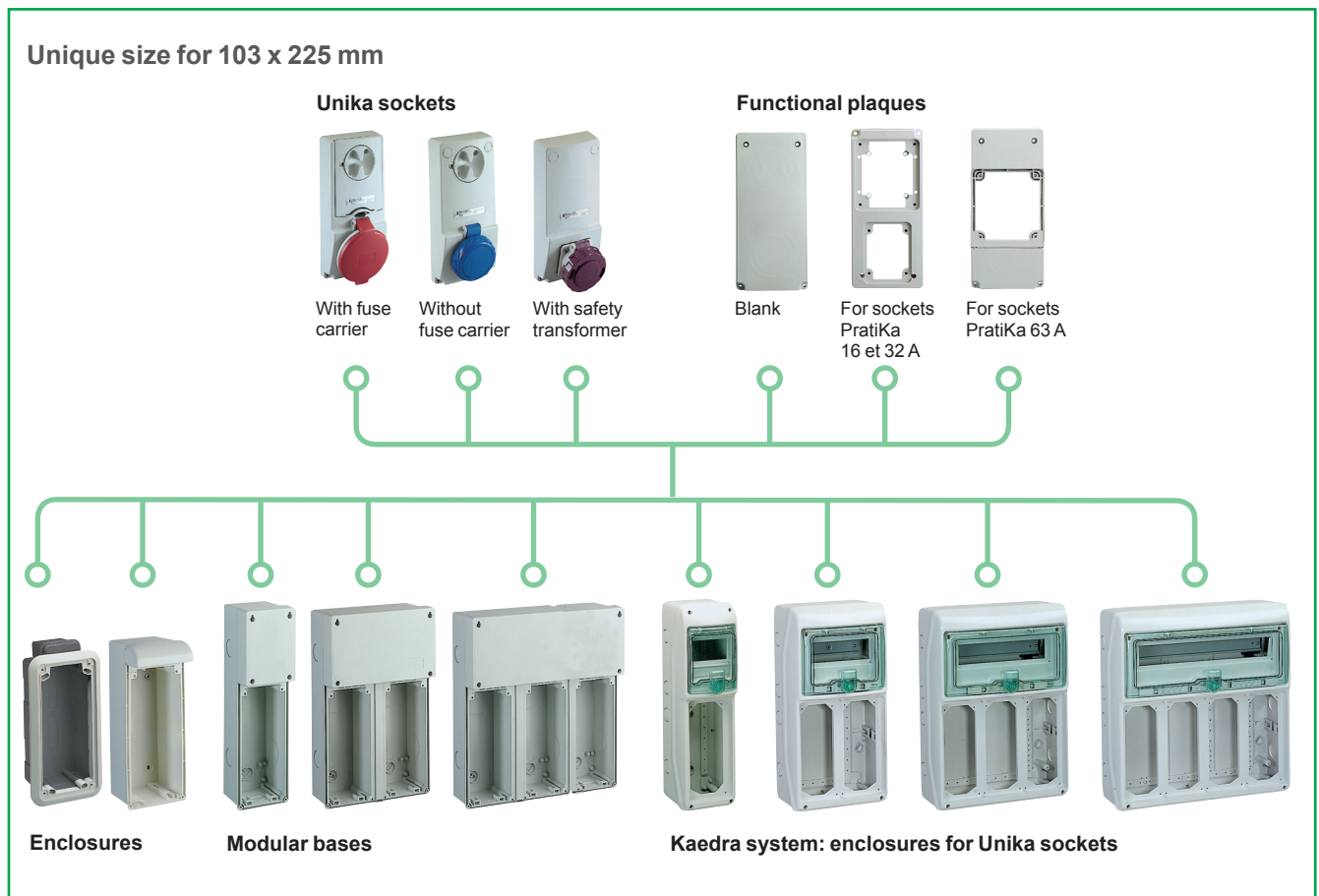


83076

PratiKa sockets

With interlock switch

Unika series / Installation flexibility



Installation flexibility

The Unika sockets with interlock 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 Unika sockets are equipped with the new five thread which enables a fast fixing on all enclosures.



PratiKa sockets

With interlock switch

Unika series / Wall and embedded-box

Technical data

		Wall-mounting box	Embedded box
		These can be fitted either wall-mounted or wall-embedded or in the Unika series interlocked socket panels.	
Main characteristics		They enable wall-mounted installation of sockets with interlock or sockets with safety transformers. On the upper part there is a section with a small cover intended for increased volumes of wiring.	They enable panel-mounted installation of sockets with interlock or sockets with safety transformers.
Degree of protection	According to IEC 60529	IP65	IP65 (After installation)
	According to EN 62262	Against external mechanical impacts	IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	750°C
Complete insulation characteristics	According with EN 60439-1	b	-
Materials		Housing made of self-extinguishing polymer Stainless steel screws	Housing made of self-extinguishing polymer Stainless steel screws
Colour		RAL 7035	RAL 7035 for frame/RAL 7016 for box
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	-
Dimensions (L x H x P)		103 x 250 x 70	103 x 235 x 70

Code of wall-mounting box

Degree of protection	Code
IP65 16 - 32 A With unmarked walls	83919
_____ Walls with knock-outs	83920
63 A	PKB002

Code of embedded box

Degree of protection	Code
IP65	83924

PG148089



83919

PB102659



PKB002

PG148090



83924

PratiKa sockets

With interlock switch

Unika series / Modular bases

Technical data

		Modular bases
		For wall-mounted fitting in combinations of one or more Unika series interlocked sockets and other PratiKa series sockets.
Main characteristics		They enable wall-mounted fitting of sockets with interlock or sockets with safety transformers. On the upper part there is a box incorporated designed for easy power feeding and wiring distribution.
Degree of protection	According to IEC 60529	IP65 (After installation)
	According to EN 62262	Against external mechanical impacts
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test 650°C
Complete insulation characteristics	According with EN 60439-1	b
Materials		Housing made of self-extinguishing polymer Stainless steel screws
Colour		RAL 7035
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

Degree of protection	Dimensions			Number of sockets	Code
	H	W	D		
IP65	350	105	70	1	83921
	350	210	70	2	83922
	350	315	70	3	83923

Code of auxiliary components for modular basis

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

Code of functional plaques

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

Description	Code
Blank plaques b Marked for fixing; v panel mounted straight PratiKa sockets for low and extra-low voltage with flange 65 x 65 mm or 75 x 75 mm v 1 or 2 devices diam. 22.2 mm.	13143
Plaques with 2 openings b 1 of 65 x 85 mm for direct fixing of angled PratiKa sockets 16 A 2P+t and 3P+t or domestic sockets b 1 of 90 x 100 mm for direct fixing of angled PratiKa sockets 16 A 4P+t and 32 A	13142
Plaques with 1 opening b 107 x 114 mm for direct fixing of angled or straight PratiKa sockets 63 A	13144



83921



83922



83923



13143



13142



13144

PratiKa sockets

With interlock switch

Isoblock series / Wall-mounted version

Technical data

		Protected by fuse carriers	With fuse carriers and warning device
		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.	
Main characteristics		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.	
Construction	According to IEC 60309-2-4	IP65	IP65
Degree of protection	According to IEC 60529	IP65	IP65
	According to EN 62262	Against external mechanical impacts	IK10
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C
Operating voltage (400 V)	Rated current	16 A 32 A 63 A	20 A (AC22) / 9.5 kW (AC23A) IEC 60947-3 32 A (AC22) / 16 kW (AC23A) IEC 60947-3 63 A (AC22) / 30 kW (AC23A) IEC 60947-3
The switch can be externally padlocked into position		"0" and "1"	"0" and "1"
Disconnect fuse carriers	Complying with IEC 60269	For CH 10,3 x 38	For CH 10,3 x 38 each fitted with LED warning light: b red and green LED off: socket unit with no power - switch open b green LED: regular power supply to the phase b red and green LED: signal of protection being triggered
Access lid to fuse carriers can be opened		Only with the switch in position "0"	Only with the switch in position "0"
Fuses not supplied		b	b
Materials		Housing made of self-extinguishing polymer Screws, pins and springs made of stainless steel	Housing made of self-extinguishing polymer Screws, pins and springs made of stainless steel
Colour		RAL 7035	RAL 7035
Wall-mounted version		Cable entry from the top Complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or: b PG21 cable gland for 16 A and 32 A b PG29 for 63 A	Cable entry from the top Complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG21 cable gland
Connection terminals		Captive screw	Captive screw

Connection

		Protected by fuse carriers	With fuse carriers and warning device
Rating		Maximum cross section of conductors	
16 A and 32 A		10 mm ²	10 mm ²
63 A		35 mm ²	-

Code of Isoblock sockets

Rating	Type	Rated voltage											
		100 - 130 V			200 - 250 V			380 - 415 V			480 - 500 V		
Poles and wires		2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
With fuse carriers 10.3 x 38													
IP65 16 A	B16	83451	83452	83453	83454	83455	83456	83457	83458	83459	-	83461	83462
32 A	B16	83463	83464	83465	83466	83467	83468	83469	83470	83471	-	83473	83474
With fuse carriers 10.3 x 38 and warning device													
IP65 16 A	B16	-	-	-	83354	-	-	-	83358	83359	-	-	-
32 A	B16	-	-	-	83366	-	-	-	83370	83371	-	-	-
With fuse carriers E33													
IP65 63 A	B32/63	-	82876	82877	82878	82879	82880	-	82882	82883	-	82885	82886



83454



83471



82883



83354




83371

PratiKa sockets


With interlock switch

Isoblock series / Wall-mounted version

Technical data

		With DIN rail	With safety transformer SELV 
Main characteristics		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.	For use either singly or in combination units by means of the Isoblock sectional panels, in environments where there are aggressive chemical agents, oils, grease, frequent, heavy jets of water and accidental shocks.
		They have a DIN rail for modular protection devices.	These enable powering of circuits with a voltage rating of 50 V maximum, to protect users against direct and indirect contacts, in conformity with IEC364 standards.
Construction	According to IEC 60309-2-4	IP65	IP65
Degree of protection	According to IEC 60529	IP65	IP65
	According to EN 62262	IK10	IK10
	Against external mechanical impacts		
Resistance to fire and abnormal heat	According to IEC 60695-2-11	850°C	850°C
	Glow wire test		
The unit is rated	According to IEC 60558-2-6	-	Class II
Operating voltage (400 V)	Rated current	20 A (AC22) / 9.5 kW (AC23A)	-
	16 A	32 A (AC22) / 16 kW (AC23A)	-
	32 A	63 A (AC22) / 30 kW (AC23A)	-
	(according to IEC 60947-3)		
	63 A		
Operating voltage	160 VA	-	230/24 V or 400/24 V
Rated power of safety transformer		-	160 VA under continuous use
Transformer 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
The switch can be externally padlocked into position		"0" and "1"	-
Access lid to fuse carriers can be opened		Only with the switch in position "0"	-
Compartment for modular devices fitted with symmetrical DIN rail	16 A and 32 A	With opening of 4.5 modules (18 mm)	-
	32 A and 63 A	With opening of 6 modules (18 mm)	-
Fitted with one or two very-low voltage sockets		-	24 V, 2P
Materials		Housing made of self-extinguishing polymer	Housing made of self-extinguishing polymer
		Screws, pins and springs made of stainless steel	Screws, pins and springs made of stainless steel
Colour		RAL 7035	RAL 7035
Wall-mounted version		Cable entry from the top	-
		Complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or:	Complete with fair-lead for 25 mm Max. Diameter cables and conduits, and/or PG21 cable gland
		b PG21 cable gland for 16 A and 32 A	
		b PG29 for 63 A	
Connection terminals		Captive screw	Captive screw

Connection

	With DIN rail	With safety transformer SELV 
Rating	Maximum cross section of conductors	
16 A and 32 A	10 mm ²	-
63 A	35 mm ²	-
160 VA	-	6 mm ²

Code of Isoblock sockets

Rating	Type	Rated voltage											
		100 - 130 V			200 - 250 V			380 - 415 V			480 - 500 V		
Poles and wires		2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t	2P + t	3P + t	3P+N + t
With DIN rail - 4.5 modules													
IP65 16 A	B16	82751	82752	82753	82754	82755	82756	82757	82758	82759	-	82761	82762
	32 A	B16	83788	83789	83790	83791	83792	83793	83794	83795	83796	-	83797
With DIN rail - 6 modules													
IP65 32 A	B32/63	82763	82764	82765	82766	82767	82768	82769	82770	82771	-	82773	82774
	63 A	B32/63	-	82776	82777	82778	82779	82780	-	82782	82783	-	82785

Code of Isoblock sockets with safety transformer SELV

Rated power		Rated voltage		Number and type of sockets		Code
		Primary	Secondary			
IP65	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



82754



82771



82783



82061



82062

PratiKa sockets

With interlock switch

Isoblock series / Modular panels

Technical data

			Modular panels
			For the installation of Isoblock series interlocked sockets in environments where there are aggressive chemical agents, oils and grease, frequent, heavy jets of water or accidental shocks
Main characteristics			These enable wall-mounted fitting of sockets with interlock or safety transformers and are available in two versions: b version with integrated box designed to enable power feeding and wiring distribution b version with control box designed to accommodate one or more modular protection devices fitted to the symmetrical DIN rail.
Construction	According to IEC 60670-1		IP65
Degree of protection	According to IEC 60529		IP65
	According to EN 62262	Against external mechanical impacts	IK10
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C
Complete insulation characteristics	According with EN 60439-1		i b
Materials	Housing made of self-extinguishing polymer		
	Screws made of stainless steel		
	Walls with knock our loch for cable entry from the top and for association		
Colour	RAL 7035		

Code for modular panels with junction boxes

Type	Dimensions			Number of sockets	Code
	H	W	D		
B16	535	111	11 + 65	1	83925
2B16	535	222	17 + 100	2	83926
B32/63	535	151	17 + 100	1	83927

Code for modular panels with modular enclosures

Type	Module	Dissipated power	Dimensions			Number of sockets	Code
			H	W	D		
	18 mm						
B16	4	9 watt	535	111	11 + 65	1	83325
2B16	10	14 watt	535	222	17 + 100	2	83326
B32/63	6	11 watt	535	151	17 + 100	1	83327

PG148107



83925

PG148108



83926

PG148108



83927

PG148104



83325

PG148106



83326

PG148105



83327

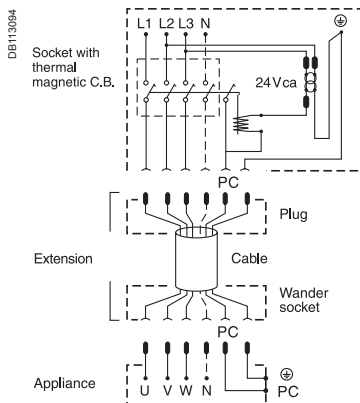
Technical data

Sockets with circuit breaker and electrical interlock		
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.		
Main characteristics		
Degree of protection	According to IEC 60529	IP65
	According to EN 62262	Against external mechanical impacts
		IK08
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test
		960°C
	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 (I Δ n)	Adjustable 0.03 - 0.3 - 1 - 3 - 10 A
	Time delay	Adjustable 0 - 60 - 150 - 310 ms
	Red warning light	Signal tripping of earth fault protection
Materials		Housing made of self-extinguishing polymer
		Screw made of thermoplastic material
Colour		RAL 7035
Connection terminals		Captive screw
		Cable entry from the top
		Complete with thickness flange and PG42 cable gland
		Terminal block guard at the circuit breaker entry

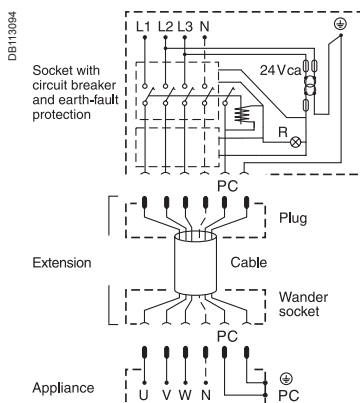
Connection

Sockets with circuit breaker and electrical interlock	
Rating	Maximum cross section of conductors
63 A and 125 A	95 mm ²

b Scheme with thermal magnetic circuit breaker



b Scheme with thermal magnetic circuit breaker and earth fault protection



Circuit breaker characteristics

Rated current (In)	Tripping thresholds		Ultimate breaking capacity (kA rms)		
	Thermal (tr)	Magnetic (tm)	220/240V	380/415V	500V
63 A	Adjustable	500 A	85	36	30
125 A	0.8... 1 x In	1250 A	85	36	30


Code for interlocked socket

Rating	Rated voltage							
	100 - 130 V		200 - 250 V		380 - 415 V		480 - 500 V	
Poles and wires	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t	3P + t	3P+N + t
With thermal-magnetic circuit breaker								
IP65 63 A	-	-	82479	-	82482	82483	82485	-
125 A	-	-	82491	-	82494	82495	82497	-
With thermal-magnetic circuit breaker and earth fault protection								
IP65 63 A	-	-	-	-	82432	82433	-	-
125 A	-	-	-	-	82444	82445	-	-






82482

PratiKa plugs 32 A for containers

Rated current	Poles and wires	Freq.	Rated voltage	Clock position of contact	Wander plugs	Wander plugs
		Hz			FAST connect 	SCREW connect
32 A	3P + t	50/60	380 - 415 V AC	3 h	IP67 PKX32M7C4	IP67 PKE32M7C4
Technical data, see page					54	

PratiKa sockets 32 A for containers

Rated current	Poles and wires	Freq.	Rated voltage	Clock position of contact	Wander sockets	Panel mounted sockets	Straight
		Hz			FAST connect 	Angled FAST connect 	FAST connect 
32 A	3P + t	50/60	380 - 415 V AC	3 h	IP67 PKY32M7C4	IP67 PKY32F7C4	IP67 PKY32G7C4
Technical data, see page					54		

Interlocked Unika

Rated current	Poles and wires	Freq.	Rated voltage	Clock position of contact	Wall mounted sockets	With fuse carriers
		Hz			IP65	IP65
32 A	3P + t	50/60	400 - 440 V AC	3 h	83299	83399
Technical data, see page					54	





Wall-mounted plugs with back box

SCREW connect

IP67

81599

54



Panel-mounted plugs

SCREW connect

IP67

83899



Wander sockets

SCREW connect

IP67

PKF32M7C4

54



Panel mounted sockets

Angled

SCREW connect

IP67

PKF32F7C4



Wall-mounted sockets

SCREW connect

IP67

PKF32W7C4



With back box

SCREW connect

IP67

81199

Interlocked Isoblock



Sockets - 4.5 mod.

With rail DIN

IP65

83799

54

The PratiKa 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.

The solution for safe connections worldwide

In accordance with standards, these plugs and sockets are available in the following versions:


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

Functions

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

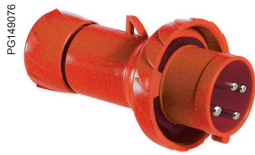
- b PratiKa wander plugs.
- b PratiKa wander plugs angled 90°.
- b PratiKa wall mounted plugs.
- b PratiKa panel-mounted plugs.
- b PratiKa wander sockets.
- b PratiKa small wall-mounted sockets.
- b PratiKa wall-mounted sockets.
- b PratiKa panel-mounted angled sockets.
- b PratiKa panel-mounted straight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

Technical data

		SCREW connection
		
Main characteristics		
Degree of protection	According to IEC 60529	IP67 (IP65 for interlocked sockets)
	According to EN 62262	IK08 (IK09 for interlocked sockets)
	Against external mechanical impacts	
Resistance to fire and abnormal heat	According to IEC 60695-2-11	850°C (750°C for Unika)
Materials		Housing made of self-extinguishing polymer
		Pins made of nickel-plated brass
		Stainless steel screws
		Springs and pins made of stainless steel
Connection terminals		Captive screws, completely loosened

Connection

		SCREW connection		
Rating		Cable entry		Maximum cross section of conductors
(In)		IP67 Cable gland	IP67 Cable clamp	Stranded wire flexible cables
32 A		PG21 PratiKa	11.5 - 21 mm PratiKa	Flexible 2.5 to 10 mm ² for panel and wall versions 2.5 to 6 mm ² for wander versions 2.5 to 10 mm ² for interlocked versions



PKX32M7C4



PKY32M7C4



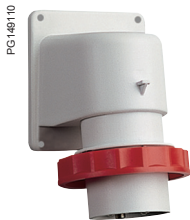
PKF32W7C4



81599



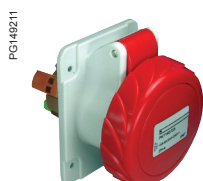
81199



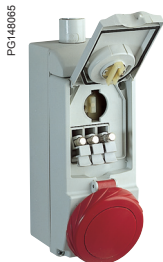
83899



PKY32F7C4



PKY32G7C4



83399



83799

Code of wander IP67

Rating	Rated voltage	Clock position	Frequency
	400 - 440 V AC	H	Hz
Poles	3P + t		
Plugs			
32 A PratiKa FAST	PKX32M7C4	3	50-60
PratiKa SCREW	PKE32M7C4	3	50-60
Sockets			
32 A PratiKa FAST	PKY32M7C4	3	50-60
PratiKa SCREW	PKF32M7C4	3	50-60

Code of small wall-mounted IP67

Rating	Rated voltage	Clock position	Frequency
	400 - 440 V AC	H	Hz
Poles	3P + t		
Sockets			
32 A	PKF32W7C4	3	50-60

Code of wall mounted IP67

Rating	Rated voltage	Clock position	Frequency
	400 - 440 V AC	H	Hz
Poles	3P + t		
Plugs			
32 A	81599	3	50-60
Sockets			
32 A	81199	3	50-60

Code of panel-mounted IP67

Rating	Rated voltage	Clock position	Frequency
	400 - 440 V AC	H	Hz
Poles	3P + t		
Plugs			
32 A	83899	3	50-60
Caps for plugs	83936		
Angled sockets			
32 A PratiKa FAST	PKY32F7C4	3	50-60
PratiKa SCREW	PKF32F7C4		
Straight sockets			
32 A PratiKa FAST	PKY32G7C4	3	50-60
PratiKa SCREW	PKF32G7C4		

Interlocked Unika IP65 - wall mounted

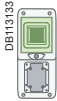
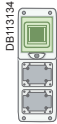






Rating	Rated voltage	Clock position	Frequency
	400 - 440 V AC	H	Hz
Poles	3P + t		
Sockets			
32 A	83299	3	50-60
Sockets with fuse carriers			
32 A	83399	3	50-60

Interlocked Isoblock IP65 - 4.5 mod.

Rating	Rated voltage	Clock position	Frequency
	400 - 440 V AC	H	Hz
Poles	3P + t		
Sockets with rail DIN			
32 A	83799	3	50-60

(*) Refs. of sockets enclosure without terminal block / Ref. of modular enclosure equipped with terminal blocks

Watertight Mini-enclosures


								
Number of modules	1 13175	4 13176	4 13177	2 / 3 13975	4 13976	6 13977	8 13978	12 13979

Watertight enclosures

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

mm	138	236	340	448
280			 1 x 12 13981	 1 x 12 13990  1 x 18 13982
335			 12 + 1 13180  12 + 1 13191	
460	 5 13993  5 13178	 8 13179	 12 + 1 13181  2 x 12 13983	 2 x 12 13991  18 + 1 13182  2 x 18 13984
	 5 13185	 8 13186	 12 + 1 13187	 18 + 1 13188
	 5 13189	 8 13190	 12 + 1 13192  13195	 18 + 1 13193  13197
610	 13994		 3 x 12 13985  13196	 3 x 12 13986  3 x 18 13992  13198
842				 4 x 18 13987  13199

Technical data

		Enclosures for sockets *
		
Main characteristics		They are designed for the quick installation of PratiKa sockets thanks to the specific opening which can be closed by special plaques. These enclosures are available in three different versions: b with 65 x 85 or 90 x 100 opening for PratiKa sockets b with 103 x 225 opening for Unika panel mounted sockets b with blank panel, for fitting universal sockets.
Degree of protection	According to IEC 60529	IP65
	According to EN 62262	Against external mechanical impacts IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test 650°C
Complete insulation	According to EN 60439-1	b
Materials		Housing made of self-extinguishing polymer Knock-out holes for association accessories M32 Screws head plugs
Colour		RAL 7035
Inferior and superior walls		With knock-outs for cable entry

PB102274



Code for Mini enclosures for PratiKa sockets

Dimensions			Modules	Opening	Supplied plaques	Dissipated power	Code
H	W	D	18 mm	65 x 85	Blank	(W)	
248	98	98	4	1 vert.	-	10	13175
310	98	98	4	2 horizont.	1	10	13176
392	98	98	4	3 horizont.	1	10	13177

PB102275



Code for enclosures for PratiKa sockets

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

PB102276



Code for enclosures for Unika with interlock switch

Dimensions			Modules	Opening	Supplied plaques	Dissipated power	Code
H	W	D	18 mm	65 x 85	Blank	(W)	
460	138	160	5	1	-	12	13185
460	236	160	8	2	1	15	13186
460	340	160	12+1	3	1	28	13187
460	448	160	18+1	4	1	39	13188

PB102277




Code for universal enclosures for sockets

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

(*) Offer supply without terminal blocks (see p. 64)

Technical data

			Interface enclosures
			
Main characteristics			<p>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 PratiKa sockets. These modular openings can be equipped by functional plaques.</p> <p>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.</p>
Degree of protection	According to IEC 60529		IP65
	According to EN 62262	Against external mechanical impacts	IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	650°C
Complete insulation	According to EN 60439-1		b
Materials	Housing made of self-extinguishing polymer Knock-out holes for association accessories M32 Screws head plugs		
Colour	RAL 7035		
Inferior and superior walls	With knock-outs for cable entry		
Equipped with terminal block	b		

PB102279



Code for enclosures for modular devices with interface

Dimensions			Modules	Opening	Supplied plaques		Dissipated power	Code
H	W	D	18 mm	90 x 100	Blank	Intermediate	(W)	
280	448	160	12	1	1	1	28	13990
460	448	160	24	3	3	1	37	13991
610	448	160	36	4	4	1	50	13992


PB102280



Code for interface enclosures

Dimensions			Opening	Supplied plaques		Code
H	W	D	90 x 100	Blank	Intermediate	
460	138	160	3	3	1	13993
460	138	125	4	4	1	13994

Technical data

			Interface enclosures
			
Main characteristics			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.
Degree of protection	According to IEC 60529		IP65
	According to EN 62262	Against external mechanical impacts	IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	650°C
Complete insulation	According to EN 60439-1		b
Materials	Housing made of self-extinguishing polymer Knock-out holes for association accessories M32 Screws head plugs		
Colour	RAL 7035		
Inferior and superior walls	With knock-outs for cable entry		
Equipped with terminal block	b		



Code for Mini enclosures for modular devices

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



Code for enclosures for modular devices

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

Technical data

			Universal enclosures
Main characteristics			The universal enclosures are intended for the installation of non-modular devices fitted on universal rear panels and usually supplied with opaque door.
Degree of protection	According to IEC 60529		IP65
	According to EN 62262	Against external mechanical impacts	IK09
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	650°C
Complete insulation	According to EN 60439-1		i ; b
Materials	Housing made of self-extinguishing polymer Knock-out holes for association accessories M32		
Colour	RAL 7035		
Inferior and superior walls	With knock-outs for cable entry		

PB102263



Code for universal enclosures

Dimensions			Dissipated power	Code
H	W	D	(W)	
460	340	160	34	13195
460	448	160	46	13196
610	340	160	47	13197
610	448	160	65	13198
842	448	160	89	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

Direct mounting



Domestic socket 65 x 85



Domestic socket



LV socket 16 A 3-4P



LV socket 16 A 5P 32 A 3-4-5P



Mini enclosures



Enclosures for sockets



Enclosures for modular device with interface and interface



Enclosure for socket with interlock switch

Indirect mounting

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

Plaques



Domestic socket 50 x 50



Buttons, indicators light

Plaques



ELV socket



Buttons, indicators light

Plaques



Domestic socket



LV socket 16 A 3-4P



ELV socket



Domestic socket 50 x 50

Plaques



Domestic socket



LV socket 16 A 3-4P



ELV socket



Domestic socket 50 x 50



16 A 5P 32 A 3-4-5P socket



Buttons, indicators light



63 A LV socket



Buttons, indicators light



LV and ELV sockets with interlock switch Unika



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

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

The standard openings

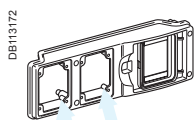
All enclosures for sockets and enclosures for interface have different openings for functional plaques. There are three standard dimensions:

b 65 x 85 mm, for direct fixing of PratiKa angled sockets of 16 A 2P+E and 3P+E or of domestic sockets

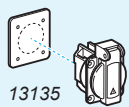
b 90 x 100 mm, for direct fixing of PratiKa in the enclosures for sockets, these opening are normally delivered with intermediate plaques code 13136

b 103 x 225 mm, for direct fixing of Unika sockets with interlock switch and relative functional plaques.

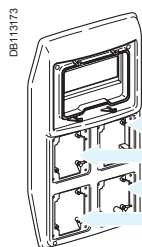
Indirect mounting



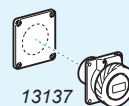
Mini enclosures



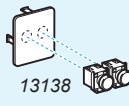
Domestic socket
50 x 50 mm



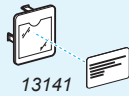
Enclosures for sockets



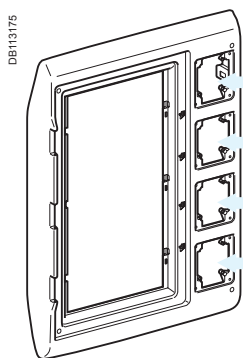
ELV socket
65 x 65 mm



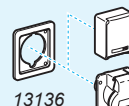
Buttons,
indicators light
22 mm diam.



Identification
label



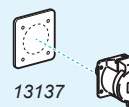
Enclosures for modular devices with interface and interfaces



Domestic socket
65 x 85 mm



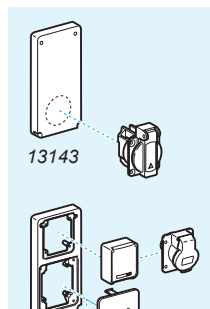
LV socket
65 x 85 mm



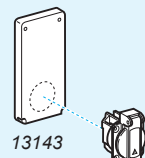
ELV sockets
65 x 65 mm



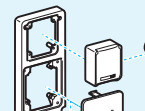
Identification
label



Enclosure for socket with interlock switch



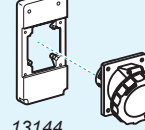
Domestic
socket
50 x 50 mm



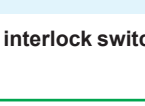
Domestic and
LV socket
65 x 85 mm



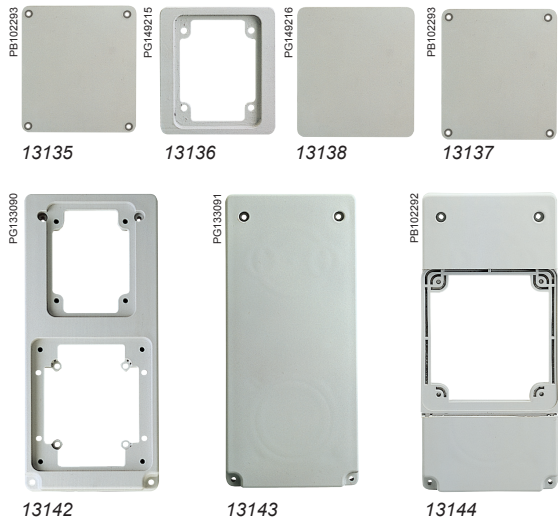
Buttons,
indicators light
22 mm diam.



LV socket
90 x 100 mm



63 A LV socket
100 x 107 mm



Code for universal enclosures

Denomination	Description	Code
Plaque for opening		
Screw fixing	65 x 85	Blank - marked for 1 socket 50 x 50
	90 x 100	Blank - marked for 1 socket 65 x 65
Clip fixing		Blank - marked for button (1 or 2 x diam. 22.2 - 4 x diam. 16)
		With identification label
		Intermediate - with opening 65 x 85
Interface Kit for enclosures with interface		
Clip fixing	90 x 100	For switch INS 63/80A
		For modular devices 4P
Plaque for opening		
Screw fixing	103 x 225	Blank - marked for 1 socket 65 x 65 and for button (1 or 2 x diam. 22.2)
		With 1 opening 65 x 85 and 1 opening 90 x 100
		With 1 opening 100 x 107 for plugs and sockets 63 A

PB102284



Code of supports

These products are used to support the Kaedra enclosures in order to have them portable.

Each support is furnished with:

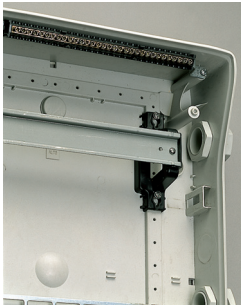
- b 4 screws M6 x 14 to fix the enclosure
- b 4 plain washer
- b 4 elastic washer.

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

Code of accessories for the installation

Denomination	Description	Code	
Mounting plate			
For non-modular devices	Telequick - h 150 mm width 12 modules	13941	
Inclined supports for terminal blocks for Mini-enclosures			
Flat bar 12 x 2 - clip fixing	Width 4 modules	13361	
	Width 6 modules	13362	
	Width 8 modules	13363	
	Width 12 modules	13364	
Inclined supports for terminal blocks for enclosures			
Flat bar 12 x 2 - screw fixing	Width 8 modules	13925	
	Width 12 modules	13597	
	Width 18 modules	13598	
Supports for terminal for enclosures bottom			
Flat bar 12 x 2 - screw fixing	Width 12 modules	13599	
	Width 18 modules	13595	
Terminal blocks 80 A (40°C)			
To be clipped on the support or on bottom by means of dove tile	Width 80 mm 4 hole (2 x 10 + 2 x 16)	13575	
	Width 85 mm 8 hole (4 x 10 + 4 x 16)	13576	
To be clipped on the support or screw fixed on the bottom	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 clipped on to the terminal block for insulation IP 2X degree of protection	Colour green	For blocks 4 hole	13581
		8 hole	13582
		12- 22 and 32 hole	13583
	Colour red	4 hole	13588
		8 hole	13584
		12- 22 and 32 hole	13585
	Colour blue	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	

PB 102295



PB 102296



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 RAL 7035, set of 10 (5 modules)	13940	
Slotted plate			
	150 x 250 mm	13941	
Fear-lead			
	Pack	14190	
PG thread cable glands			
	For cable		
In accordance with DIN 46320 - Grey RAL 7035 - Complete with lock-nut	PG9	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

PG149002



PG thread cable glands


059455N



Accessories for the finish of enclosures

Denomination	Description	Code
Symbol plate		
Ordinary	Set of 10	13735
Special		13736
Label support sheet		
To be printed by Sismarker	Set of 10	13260

Technical data

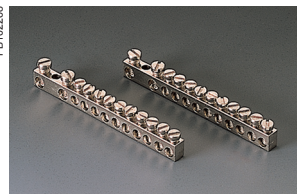
			Junction boxes
			
Main characteristics			
Degree of protection	According to IEC 60529		IP55
	According to EN 62262	Against external mechanical impacts	IK08
Resistance to fire and abnormal heat	According to IEC 60695-2-11	Glow wire test	850°C
Materials	Housing made of self-extinguishing polymer		
	Screw head plugs		
	Knockout holes for cable glands and connection accessories to sockets		
Colour	RAL 7035		
Supplied with	Caps for bottom screws		



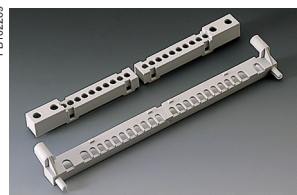
PG thread cable glands



PG thread nipples for joining boxes



Brass terminal blocks with regard



Brass terminal blocks complete with support



Terminal block supports

Code for junction boxes

Dimensions			Number and type of cable entry	Code
H	W	D		
75	110	65	4 x PG21	83963
110	110	65	6 x PG21	83964
150	110	100	6 x PG21	83962
110	150	100	4 x PG21 + 1 x PG21/29 + 1 x PG29	83965
150	150	100	4 x PG21 + 2 x PG21/29	83966

Code for connection accessories

Thread	Cable diameter	Connector diameter	Code
PG thread cable glands			
In accordance with DIN 46320 made of insulating material, grey RAL 7035 - Complete with lock-nut.			
PG16	14 - 16 mm	23 mm	83994
PG21	14 - 20 mm	28.5 mm	83995
PG29	19 - 26 mm	37.5 mm	83996

PG thread nipples for joining boxes

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

PG16	14 - 16 mm	23 mm	83985
PG21	14 - 20 mm	28.5 mm	83986
PG29	19 - 26 mm	37.5 mm	83987

Description	Code
Brass terminal blocks with regard to ground and neutral connections	
With holes	1 x 16 + 4 x 10 mm ² 83970
	1 x 16 + 6 x 10 mm ² 83971
	1 x 16 + 10 x 10 mm ² 83972
	2 x 16 + 10 x 10 mm ² 83973
	2 x 16 + 16 x 10 mm ² 83974

Brass terminal blocks complete with support

For PratiKa Compact sockets enclosures

With holes	1 x 16 + 4 x 10 mm ²	83980
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For enclosures	For terminal blocks	Code
Terminal block supports		
Made of insulating material - Suitable for brass terminal blocks		
83325	2 x 83970	83975
83326	2 x 83970 / 83971 / 1 x 83972 / 83970	83976
83327	All terminals	83977

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:

- b IEC 60309-1
- b IEC 60309-1-4
- b EN 60309-1.

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

- b IEC 60309-2
- b EN 60309-2.

- b Plugs and sockets for industrial use
- b 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:

- b **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
- b **Socket:** part which is to be installed in the power supply installation or incorporated in switchgear and controlgear
- b **Plug:** part which is securely connected, or designed to be connected, to a flexible cable connected to an appliance or to a connector.

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

- b Maximum temperature: +40°C with average temperature during 24 hours not exceeding +35°C.
- b Lower temperature limit: -25°C.

Altitude

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

Atmospheric conditions

Humidity

- b Relative humidity not exceeding 50% with temperature of +40°C.
- b 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:

Level 1

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

Level 2

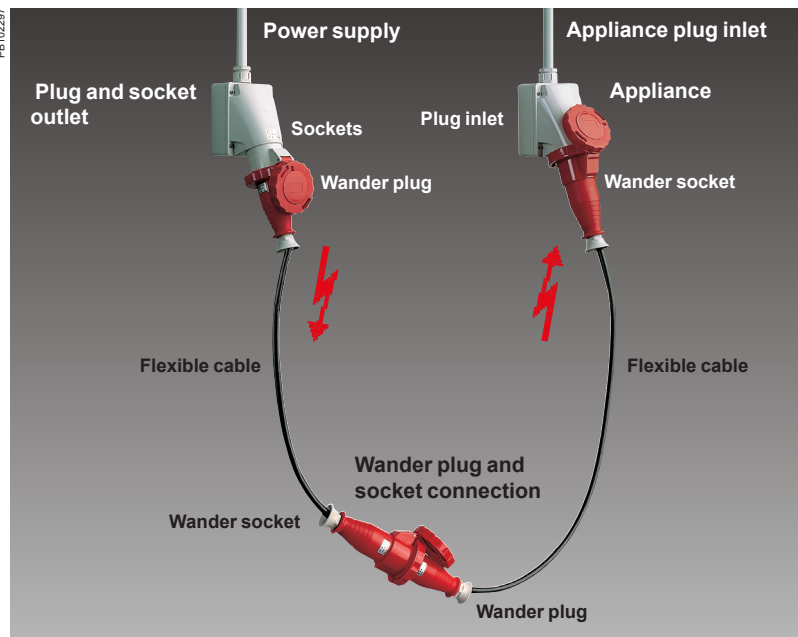
Normally the devices can be used in the presence of non-conductive polluting substances, occasionally there may be temporary conductivity caused by condensation.

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.

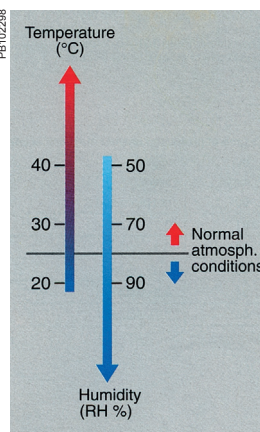


Wander plug and socket connection: device which permits the connection of two flexible cables: it comprises a wander socket and a plug.

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.

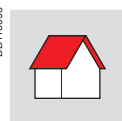
Plug inlet: incorporated part fixed, or designed to be fixed, to an appliance.



The normal pollution level is:

for domestic or similar devices:

for industrial type applications:



Level 2



Level 3

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.

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:

- b extra-low voltage plugs and sockets, with operating voltage of up to 50 V
- b 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+t, 3P+t and 3P+N+t 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:

- b a guide spline on the socket which matches with a corresponding nib on the plug
- b 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:


- b a guide spline on the plug which matches with a corresponding nib on the socket, always at a fixed 6 o'clock position
- b 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.

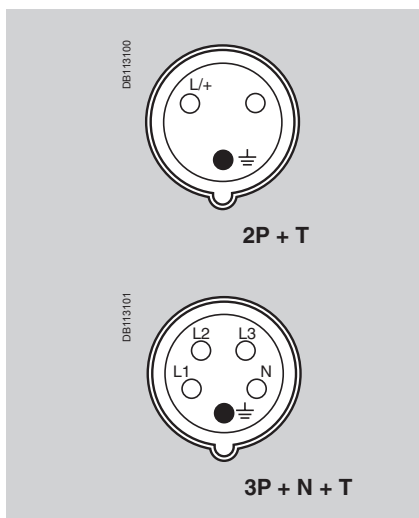
The clock position (h) of the secondary keyway is checked by observing, with the socket viewed from the front, the position of the nib in relation to the main keyway, always positioned at 6 o'clock.

Coded colours

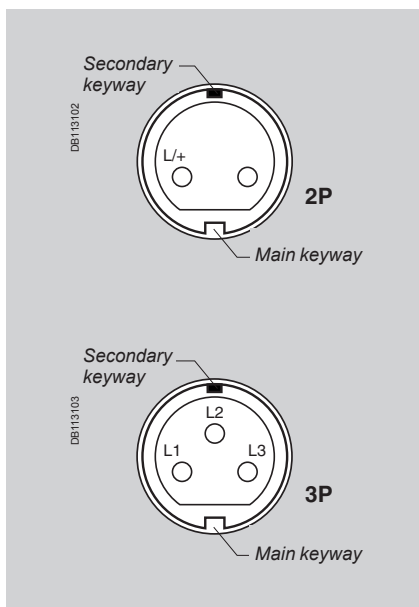
For easy identification of the operating voltage, the standard indicates conventional coded colours which may involve the entire device or only one part (e.g., lift cover, ring, etc.).

Rated operating voltage	Colour ⁽¹⁾
De 10 à 25 V	Violet 
De 40 à 50 V	White 
De 100 à 130 V	Yellow 
De 200 à 250 V	Blue 
De 380 à 480 V	Red 
De 500 à 690 V	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. 



Low voltage socket



Extra-low voltage socket

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
High-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 68.

Summary table of identification and interchangeability for industrial-type plugs and sockets included in the different systems covered by the IEC 60309-2 and IEC 60309-4 standards

LOW VOLTAGE - above 50 V up to 690 V

2P+t				3P+t				3P+N+t							
FREQ. (Hz)	RATED VOLTAGE Un (V)	SOCKET'S FRONT VIEW OF EARTH CONTACT POSITION ⁽¹⁾			FREQ. (Hz)	RATED VOLTAGE Un (V)	SOCKET'S FRONT VIEW OF EARTH CONTACT POSITION ⁽¹⁾			FREQ. (Hz)	RATED VOLTAGE Un (V)	SOCKET'S FRONT VIEW OF EARTH CONTACT POSITION ⁽¹⁾			
		16 and 32 A	63 and 125 A				16 and 32 A	63 and 125 A				16 and 32 A	63 and 125 A		
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		50 and 60	380-415	6 h	6 h		50 and 60	200/346-240-415	6 h	6 h		
50 and 60	380-415	9 h	9 h			480-500	7 h	7 h			277/480-288/500	7 h	7 h		
	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		Supply by isolating transformer	12 h	12 h								
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		100-300 included	More than 50	10 h	-		100-300 included	More than 50	-	-		
	More than 250	8 h	8 h		301-500 included	More than 50	2 h	-		301-500 included	More than 50	2 h	-		
											For all other rated voltage and/or frequencies 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 32 A	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.

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 72 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.

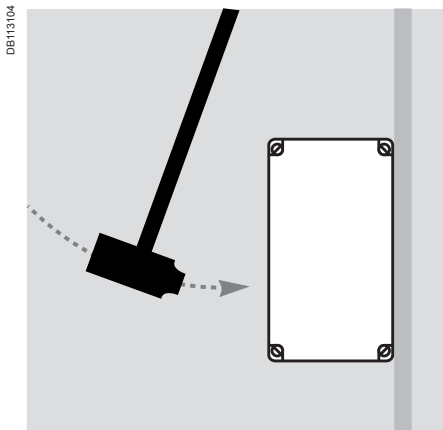
For example, an enclosure with a degree of protection IP31 is suitable for an environment that requires at least a degree of protection IP21. In this case a device with degree of protection IP30 cannot be used.

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 62262 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.

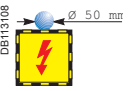
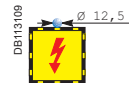
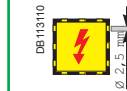
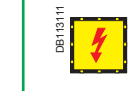


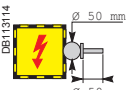
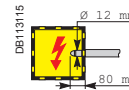
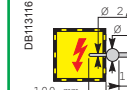
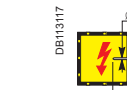


Degree of protection against mechanical impacts IK in accordance with standard EN 62262

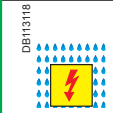
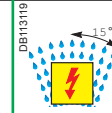
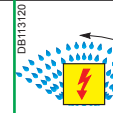
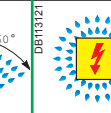
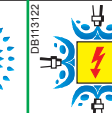
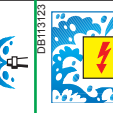
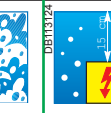
IK code	impact energy	IK code	Impact energy
00	not protected	06	1 Joule
01	0,15 Joule	07	2 Joule
02	0,2 Joule	08	5 Joule
03	0,35 Joule	09	10 Joule
04	0,5 Joule	10	20 Joule
05	0,7 Joule		

Degree of protection IP in accordance to IEC 60529

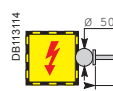

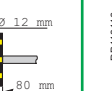
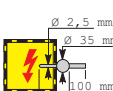
1st characteristic digit: protection against the entry of foreign objects and against access to dangerous parts.

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 than 12,5 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		

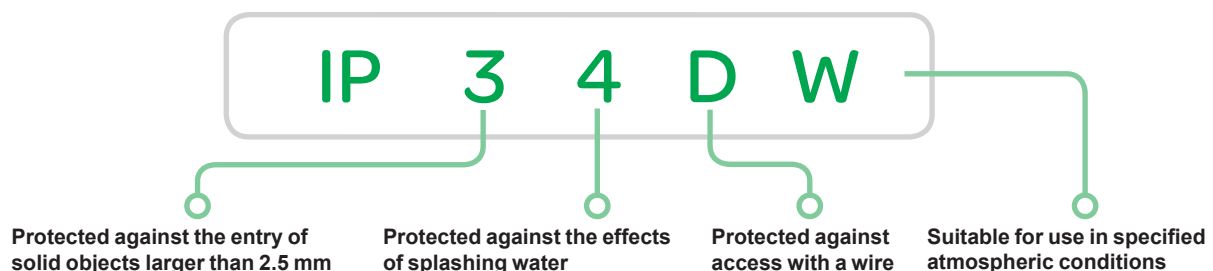
2nd characteristic digit: protection against the infiltration of water

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

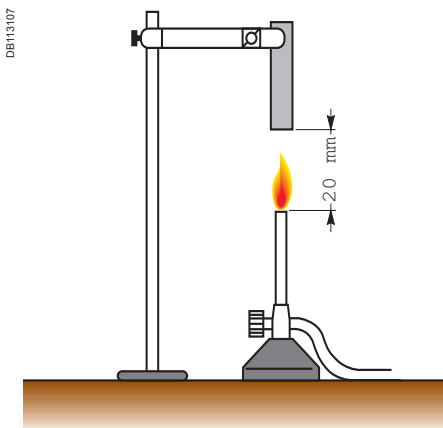
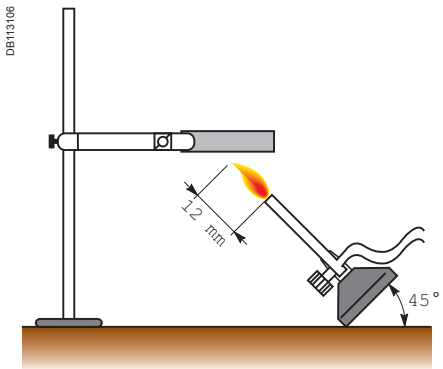
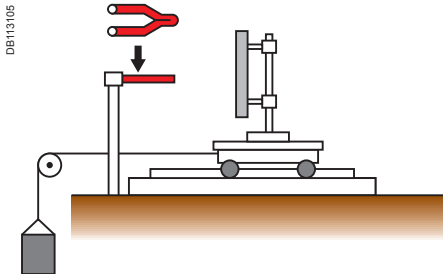
Meaning	Additional letter*				Supplementary letter	
	A	B	C	D	Supplementary informations for the protection of material	
Protection of person against access with	Back of hand	Finger	Tool	Wire	H	High voltage devices
Means of test	 Accessibility gauge Ø 50 mm	 Articulated test finger	 Accessibility gauge Ø 2,5 mm x100 mm	 Accessibility gauge Ø 1 mm x100 mm	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.
Used only if: b the effective protection against access to dangerous parts is greater than the one indicated by the first characteristic digit. b only the protection against access to dangerous parts is indicated and the first characteristic digit is then replaced by an X.					W	Suitable for use in specified atmospheric conditions and provided with additional measures and procedures.

Example of full application of the IP code



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.



Aim of the tests	Tests results	Tests conditions
------------------	---------------	------------------

Glow-wire test in accordance with IEC 60695-2-11		
<p>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.</p>	<p>Any flame must stop within 30 sec after removing the incandescent wire.</p> <p>b Test temperatures</p> <ul style="list-style-type: none"> v 650°C v 750°C v 850°C v 960°C <p>Falling burning drops do not set fire to the tissue paper.</p>	<p>Heat sources 4 mm diameter incandescent wire</p> <p>Duration of the test Wire applied for 30 sec.</p> <p>Characteristic elements Extinguishing time of the flame</p>

Flame with needle test in accordance with IEC 60695-2-12		
<p>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.</p>	<p>b The sample does not catch fire</p> <p>b The flame and the incandescent particles do not propagate fire</p> <p>b The duration of combustion is less than 30 sec after removing the Bunsen burner</p>	<p>Heat sources Flame from a Bunsen burner</p> <p>Duration of the test Flame applied for 5, 10, 20, 30, 60, 120 sec according to the specific standard</p> <p>Characteristic elements The degree of severity: flame application time (AT)</p>

UL method - Underwriters Laboratories in accordance with UL 94		
<p>Supply a classification of the various behaviours which the materials may after contact with the flame from a Bunsen burner</p>	<p>b V0 if the specimen burns on average for less than 5 sec before self-extinguishing</p> <p>b V1 if it burns on average for less than 25 sec.</p> <p>b V2 if it burns for less than 25 sec with incandescent drips</p> <p>b HB if it burns for more than 25 sec (specimen horizontal and combustion velocity less than 38 mm/min)</p> <p>Assimilated to ASTM D-635</p>	<p>Heat sources Flame from a Bunsen burner</p> <p>Duration of the test Flame applied for 10 sec twice in a row</p> <p>Characteristic elements Duration of combustion</p>










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 be 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.

Product series	ACIDS		BASES		SOLVENTS			OIL			FUEL									
	H ₂ O	Saline solution	Conc.	Diluted	Conc.	Diluted	Hexane	Benzene	Acetone	Absol. ethyl alcohol	Silicone	Mineral	Veget. oil	Animal fat	Synthetic grease	Animal organic solution	Unleaded premium	Premium	Diesel	Ammonia
 PratiKa 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
 PratiKa 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
 PratiKa 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

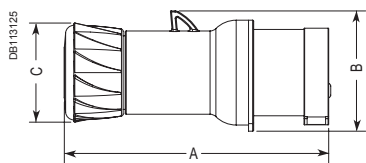
Legend: ● Resistant ● Limited resistance ● Not resistant

PratiKa plugs and sockets

Low voltage

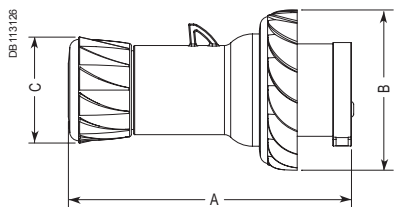
Wander plugs and sockets

Plugs IP44

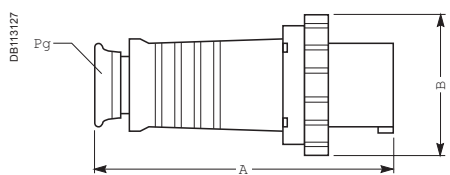


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	129	139	142	152	152	160
B	59	65	74	76	76	86
C	48	48	58	58	58	58

IP67



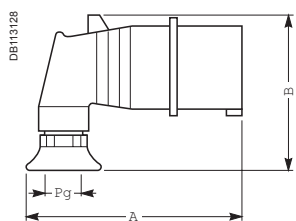
Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	129	139	142	152	152	160
B	73	81	89	95	95	102
C	48	48	58	58	58	58



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

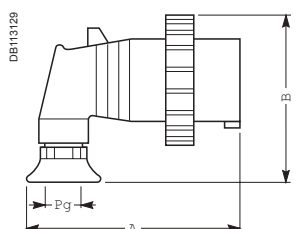
Wander plugs angled 90°

IP44



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

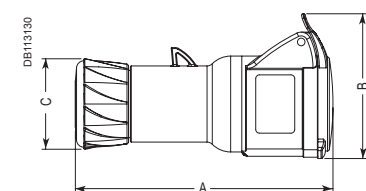
IP67



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

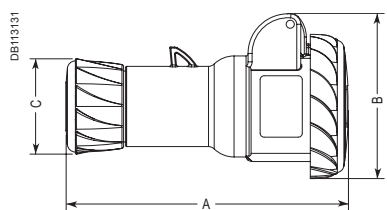
Wander sockets

IP44

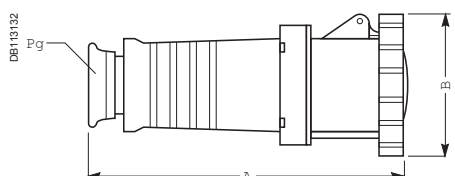


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	140	150	153	165	165	172
B	78	88	97	98	98	106
C	48	48	58	58	58	58

IP67



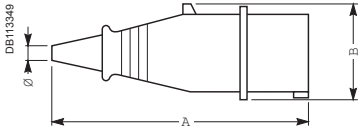
Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	142	152	155	164	164	173
B	84	87	96	99	99	104
C	48	48	58	58	58	58



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

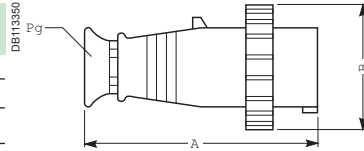
Plugs with phase inverter

IP44



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

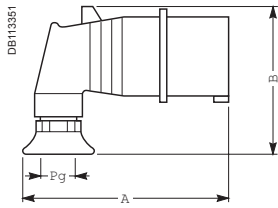
IP67



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

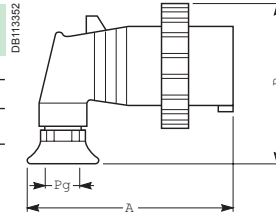
Wander plugs angled 90° with phase inverter

IP44



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

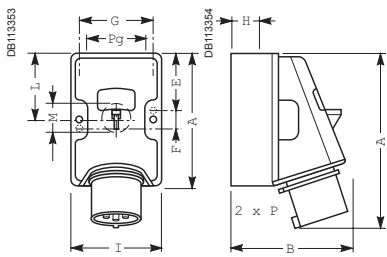
IP67



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

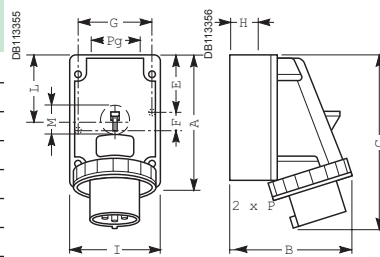
Wall-mounted plugs with phase inverter

IP44



Dim.	16 A	
	3P+t	3P+N+t
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

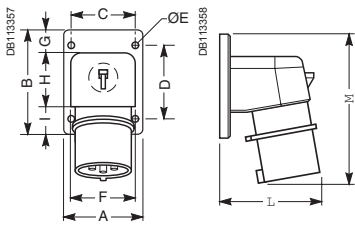
IP67



Dim.	16 A	
	3P+t	3P+N+t
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

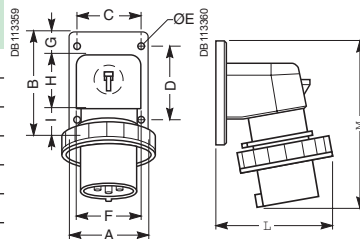
Panel-mounted plugs with phase inverter

IP44



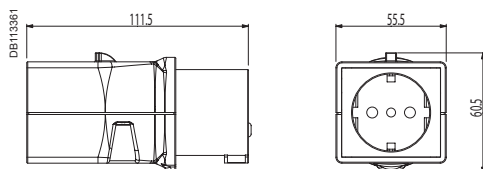
Dim.	16 A	
	3P+t	3P+N+t
A	65	90
B	85	100
C	52	77
D	60	85
E	5,2	5,5
F	53	76
G	20	20
H	41,5	59,5
I	23,5	20,5
L	85	96
M	124	148

IP67

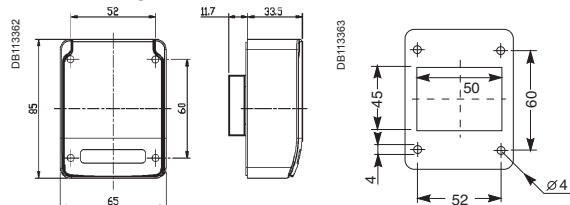


Dim.	16 A	
	3P+t	3P+N+t
A	65	90
B	85	100
C	52	77
D	60	85
E	5,2	5,5
F	53	76
G	20	20
H	41,5	59,5
I	23,5	20,5
L	92	107
M	124	148

System adapters



Domestic panel mounted sockets



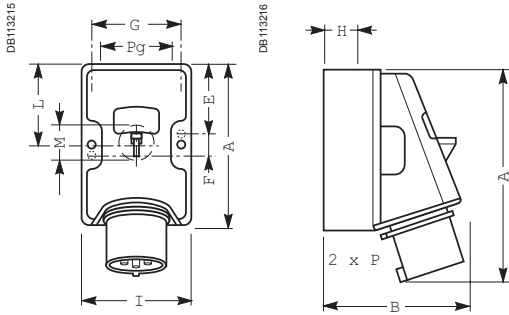
PratiKa plugs and sockets

Low voltage

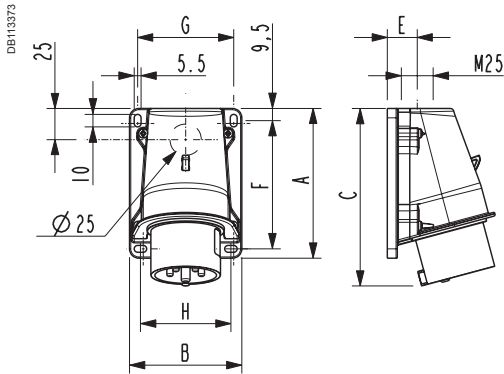
Wall-mounted plugs

Wall-mounted plugs

IP44

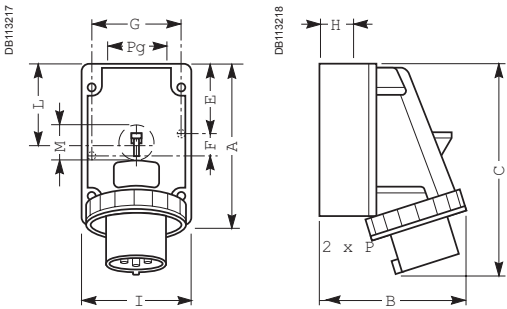


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	100	100	130	130	130	130
B	106	109	125	130	130	132
C	139	140	134	136	136	140
E	41	41	7	7	7	7
F	18	18	116	116	116	116
G	67	67	92	92	92	92
H	21	21	25	25	25	25
I	80	80	106	106	106	106
L	50	50	65	65	65	65
M	23	23	28,5	28,5	28,5	28,5
Pg	21	21	21	21	21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

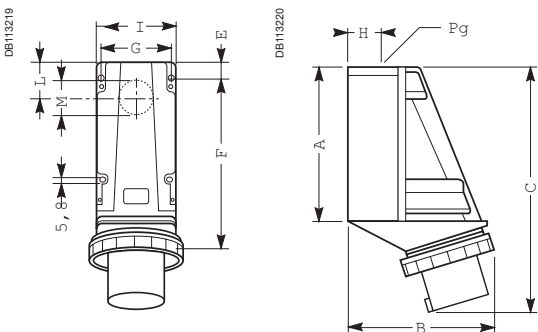


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	100	100	120	120	120	120
B	75	75	90	90	90	90
C	122	123	142	151	151	152
D	76	76	86	89	89	95
E	21	21	24	24	24	24
F	83	83	103	103	103	103
G	62	62	77	77	77	77
H	57,5	57,5	72,5	72,5	72,5	72,5

IP67



Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

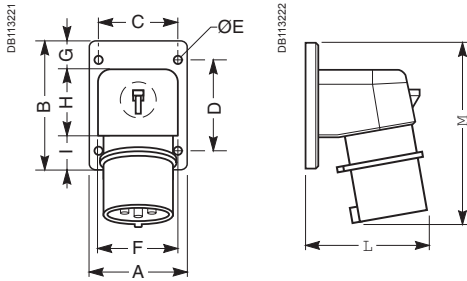
PratiKa plugs and sockets

Low voltage

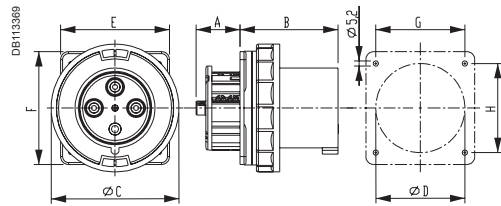
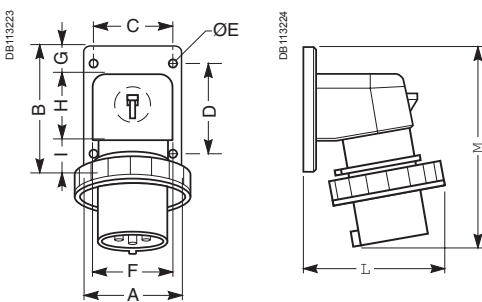
Panel-mounted plugs - Wall-mounted sockets

Panel-mounted plugs

IP44



IP67

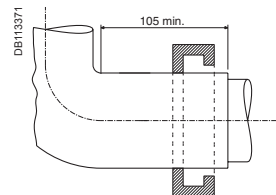


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	65	65	90	90	90	90
B	85	85	100	100	100	100
C	52	52	77	77	77	77
D	60	60	85	85	85	85
E	5,2	5,2	5,5	5,5	5,5	5,5
F	53	53	76	76	76	76
G	20	20	20	20	20	20
H	41,5	41,5	59,5	59,5	59,5	59,5
I	23,5	23,5	20,5	20,5	20,5	20,5
L	82	85	96	98	98	101
M	123	124	148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

Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

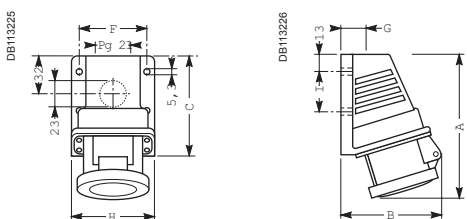
Dim.	63 A			125 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	24	24	24	44,5	44,5	44,5
B	89	89	89	99	99	99
C	114	114	114	129	129	129
D	75	75	75	90	90	90
E	100	100	100	110	110	110
F	107	107	107	114	114	114
G	77	77	77	90	90	90
H	85	85	85	90	90	90

Retaining means for IP67 panel mounted - plugs of 63 A and 125 A (according to standards IEC 60309-2 and IEC 60309-4)

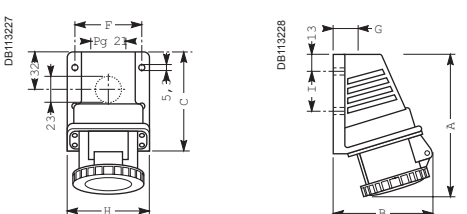


Small wall-mounted sockets

IP44



IP67



Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

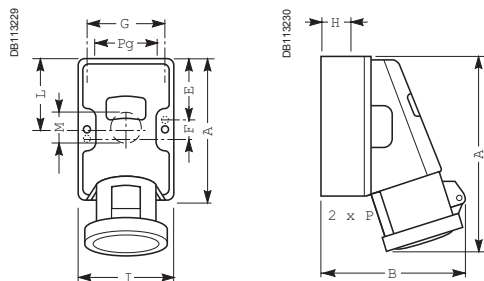
PratiKa plugs and sockets

Low voltage

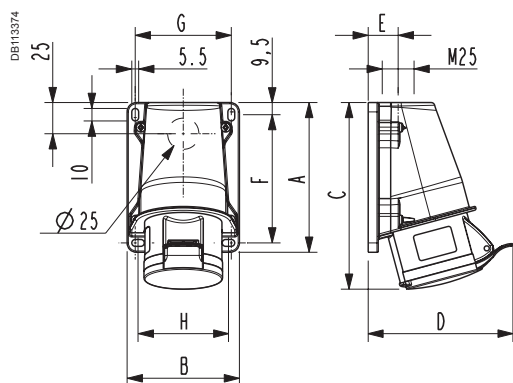
Wall-mounted sockets

Wall-mounted sockets

IP44

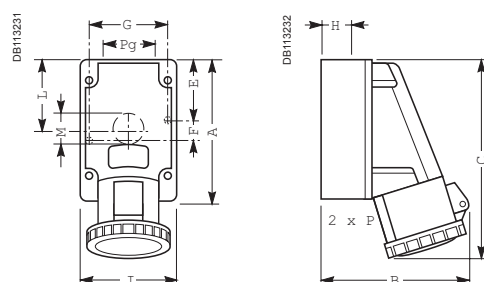


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	100	100	130	130	130	130
B	126	126	141	145	145	149
C	154	155	176	189	189	192
E	41	41	7	7	7	7
F	18	18	116	116	116	116
G	67	67	92	92	92	92
H	21	21	25	25	25	25
I	80	80	106	106	106	106
L	50	50	65	65	65	65
M	23	23	28,5	28,5	28,5	28,5
Pg	21	21	21	21	21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

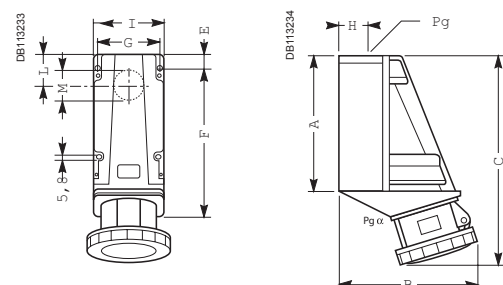


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	100	100	120	120	120	120
B	75	75	90	90	90	90
C	129	131	150	160	160	160
D	100	104	116	119	119	125
E	21	21	24	24	24	24
F	83	83	103	103	103	103
G	62	62	77	77	77	77
H	57,5	57,5	72,5	72,5	72,5	72,5

IP67



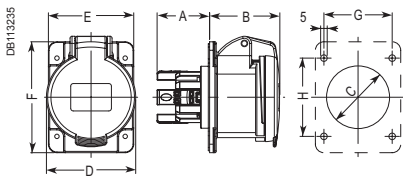
Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	100	100	130	130	130	130
B	126	127	143	148	148	154
C	155	156	178	191	191	194
E	41	41	7	7	7	7
F	18	18	116	116	116	116
G	67	67	92	92	92	92
H	21	21	25	25	25	25
I	80	80	106	106	106	106
L	50	50	65	65	65	65
M	23	23	28,5	28,5	28,5	28,5
Pg	21	21	21	21	21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

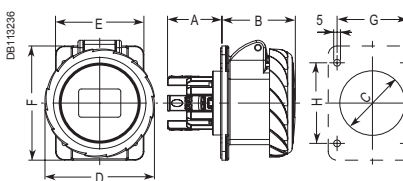
Straight panel-mounted sockets

IP44



Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	40	40	40	42	42	42
B	54	54	54	63	63	64
C	44	48	55	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

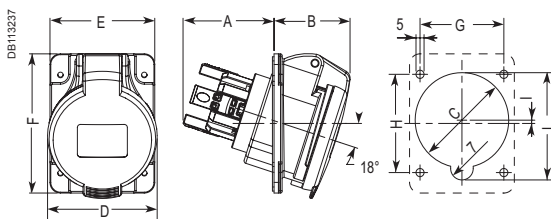
IP67



Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	40	40	40	42	42	42
B	54	54	54	63	63	64
C	44	48	55	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

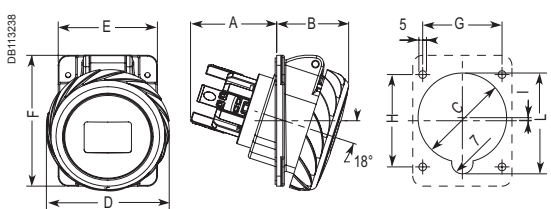
Angled panel-mounted sockets

IP44



Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

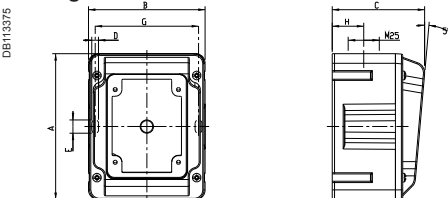
IP67



Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

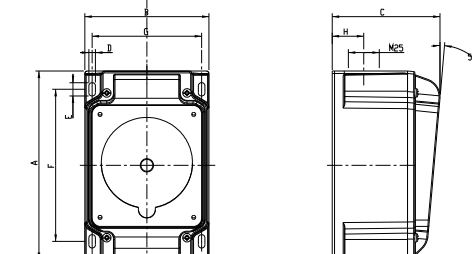
Back box

Flanged 65x85



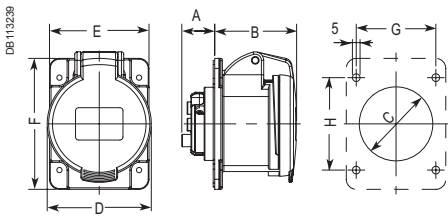
Dim.	Suitable for fitting socket with flange	
	65 x 85	90 x 100
A	120	155
B	96	102
C	76	89
D	5,5	5,5
E	11	11
F	-	125
G	85	90
H	26	26

Flanged 90x100



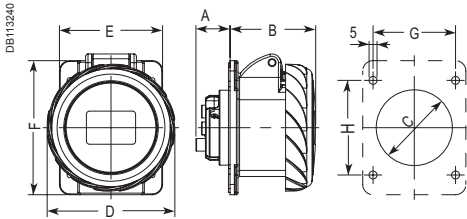
Straight panel-mounted sockets

IP44

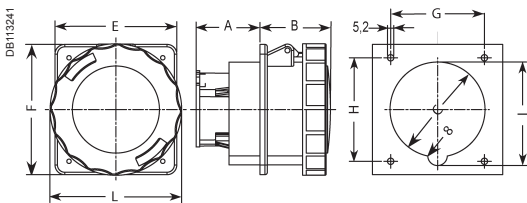


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	22	22	22	28	28	28
B	54	54	54	63	63	64
C	44	48	54	58	58	65
D	60	68	76	82	82	89
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85

IP67



Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

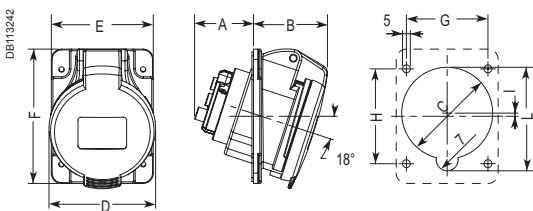


L = 108 mm for 63 A and 129 mm for 125 A

Dim.	63 A			125 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

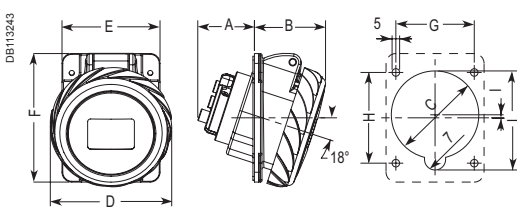
Angled panel-mounted sockets

IP44

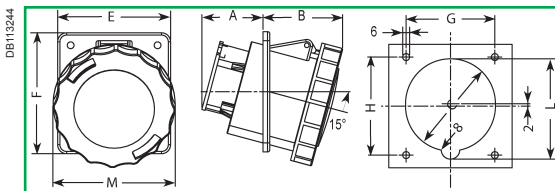


Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
A	38	38	37	48	48	48
B	46	48	50	53	53	55
C	54	58	70	70	70	75
D	60	68	76	82	82	89
E	65	65	90	90	90	90
F	85	85	100	100	100	100
G	52	52	77	77	77	77
H	60	60	85	85	85	85
I	2	2	7	3	3	2,5
L	59	65,5	75	76	76	83

IP67



Dim.	16 A			32 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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



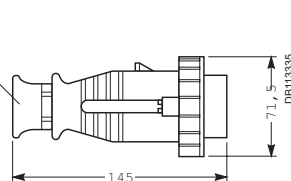
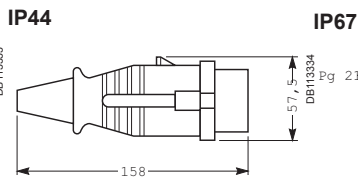
M = 108 mm for 63 A and 129 mm for 125 A

Dim.	63 A			125 A		
	2P+t	3P+t	3P+N+t	2P+t	3P+t	3P+N+t
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

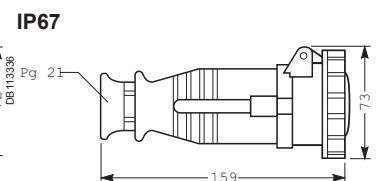
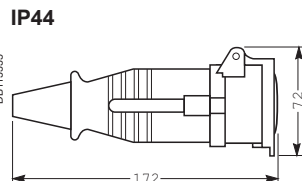
PratiKa plugs and sockets

Extra-low voltage

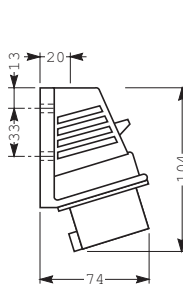
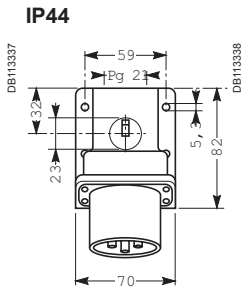
Wander-plugs



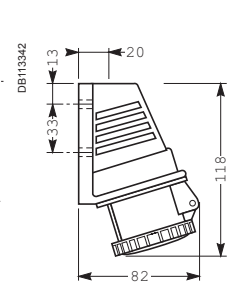
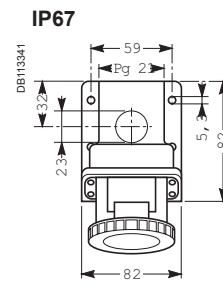
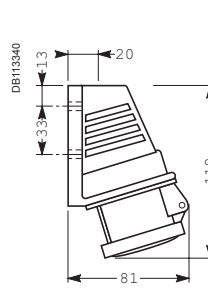
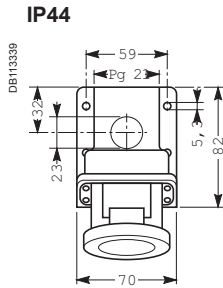
Wander sockets



Wall-mounted plugs

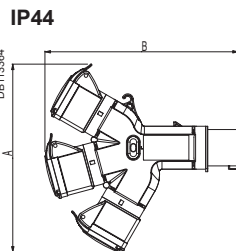


Wall-mounted sockets

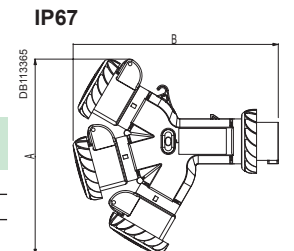


Multiple adapters 3 socket outlets

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

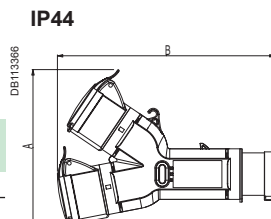


PLUG SIDE	IP67		SOCKET SIDE
	A	B	
16 A 2P+t	222	233	3 x 16 A 2P+t
16 A 3P+t	242	244	3 x 16 A 3P+t
32 A 3P+N+t	251	274	1x 32 A 3P+N+t +2 x 16 A 2P+t

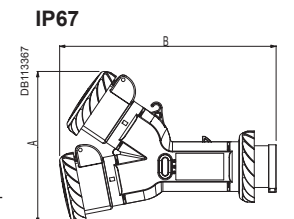


Multiple adapters 2 socket outlets

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

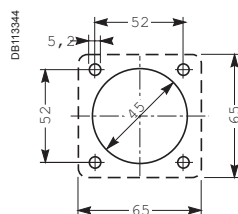
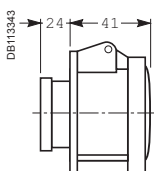


PLUG SIDE	IP67		SOCKET SIDE
	A	B	
16A 2P+t	160	233	2 x 16A 2P+t
16A 3P+t	171	244	2 x 16A 3P+t

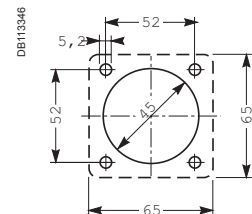
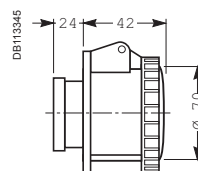


Panel-mounted straight sockets with flange 65 x 65

IP44

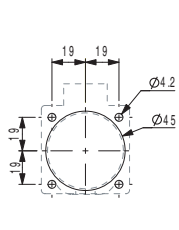
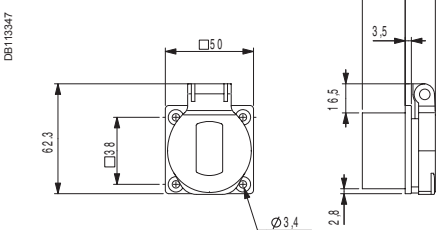


IP67



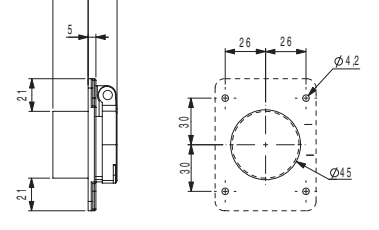
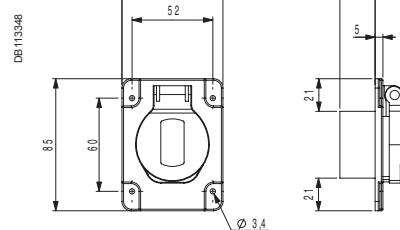
Domestic sockets 50 x 50

IP54



Domestic sockets 65 x 85

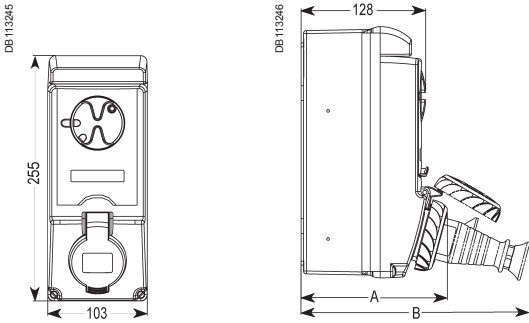
IP54



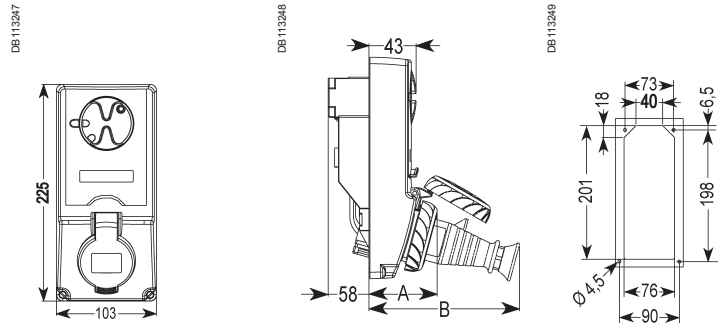
PratiKa sockets with interlock switch Unika

Unika sockets with interlock switch

Wall-mounted version



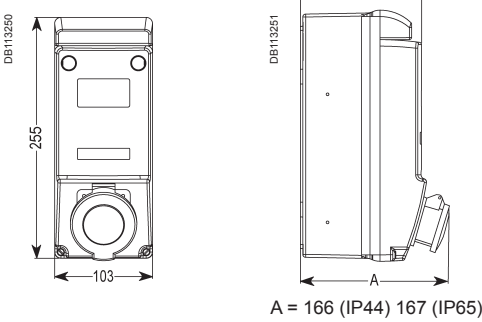
Panel-mounted version



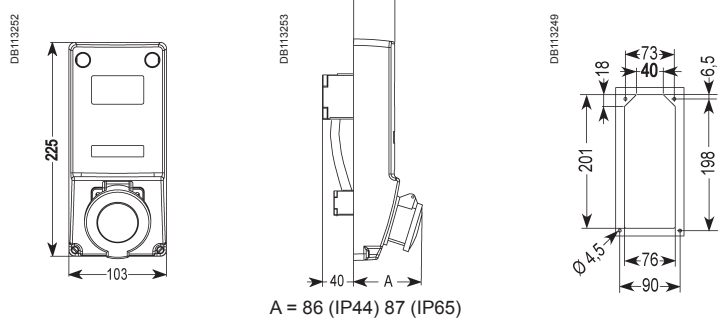
Dim.	IP44			IP65			IP44			IP65			IP44			IP65								
	3P	4P	5P	3P	4P	5P	3P	4P	5P	3P	4P	5P	3P	4P	5P	3P	4P	5P						
A	150	150	151	151	151	152	149	150	151	151	151	153	69	69	70	70	70	71	68	69	70	70	70	72
B	235	239	257	271	271	274	237	240	244	260	260	261	154	158	176	190	190	193	156	159	163	179	179	180

Unika sockets with safety transformer

Wall-mounted version



Panel-mounted version

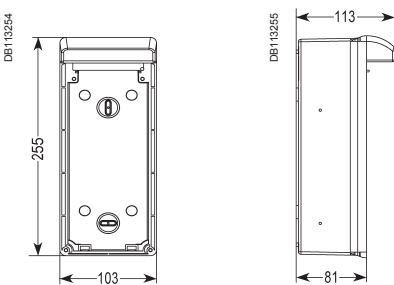


A = 166 (IP44) 167 (IP65)

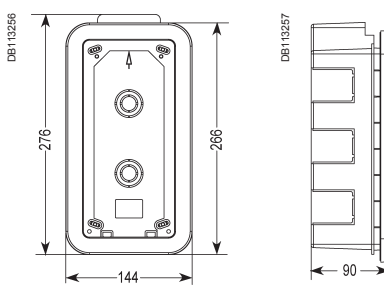
A = 86 (IP44) 87 (IP65)

Unika sockets with safety transformer

Wall-mounting

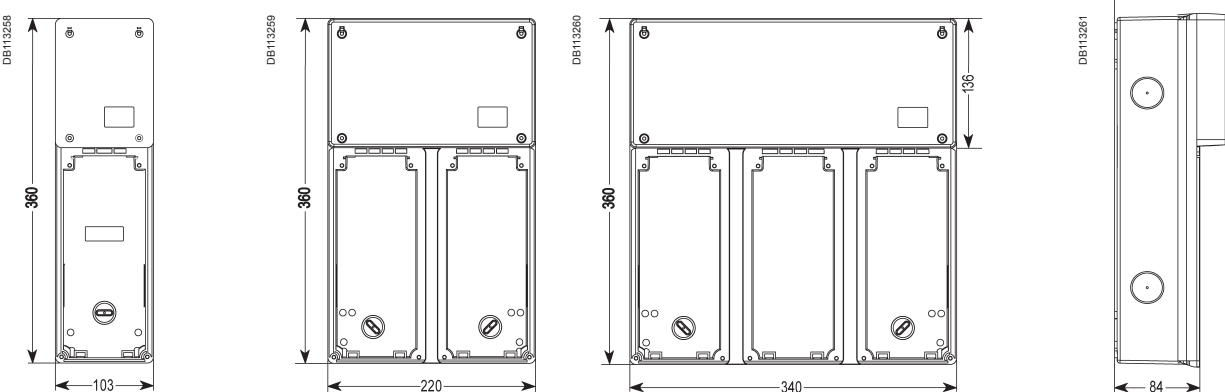


Embedded boxes



Unika Modular bases

Wall-mounting

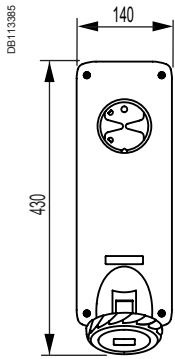


PratiKa sockets with interlock switch Unika

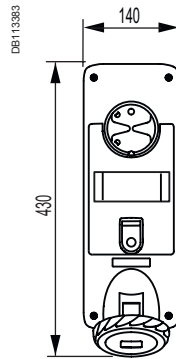
Unika Sockets with interlock switch

Wall -mounted IP 65

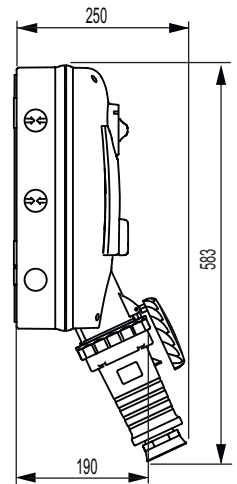
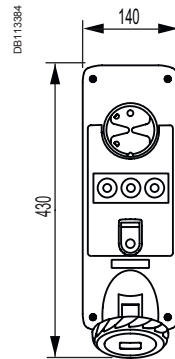
Without protection



With DIN rail

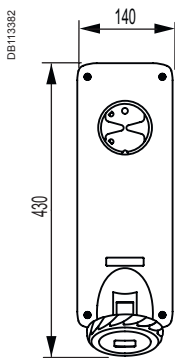


Protected by fuse carrier

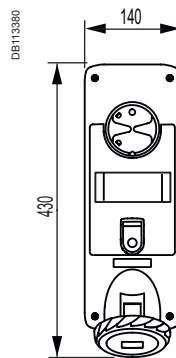


Panel -mounted IP 65

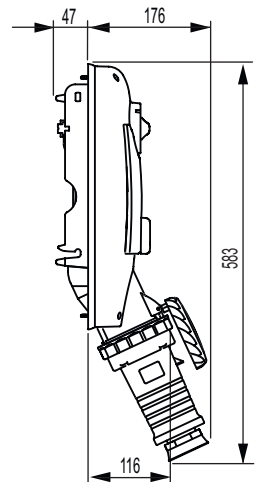
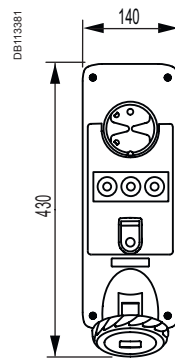
Without protection



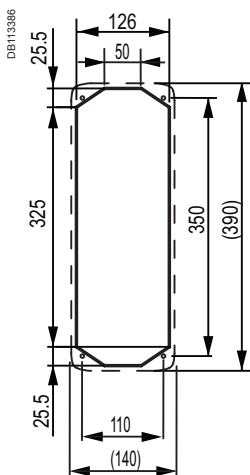
With DIN rail



Protected by fuse carrier



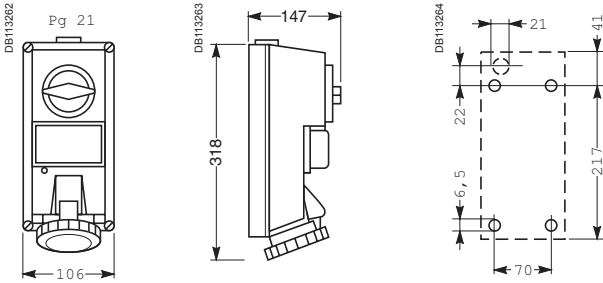
Fixing opening for panel-mounted version



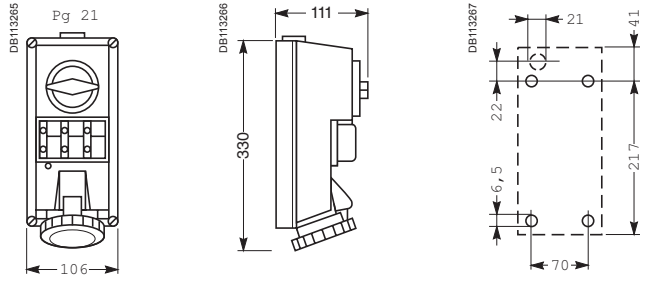
PratiKa sockets with interlock switch Isoblock

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

IP65 - 16 A

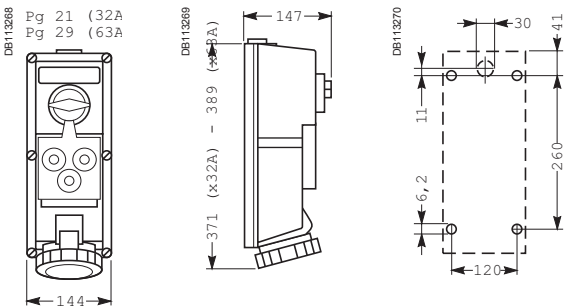


IP65 - 32 A



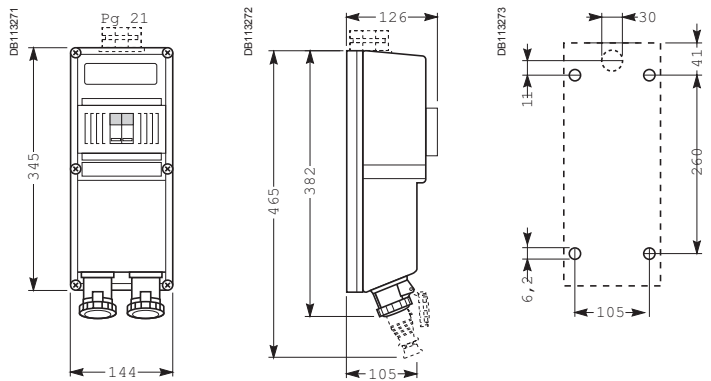
Sockets with interlock switch protected by diazed fuse carriers

IP65 - 63 A



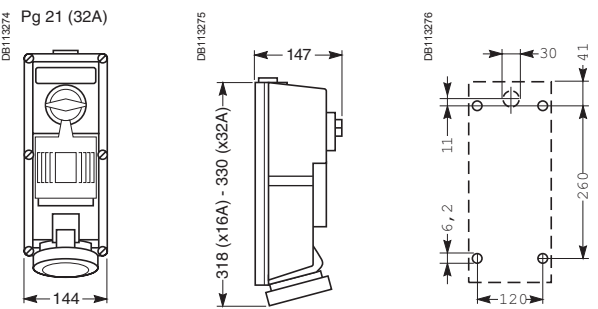
Sockets with safety transformer

IP65 - 32 A

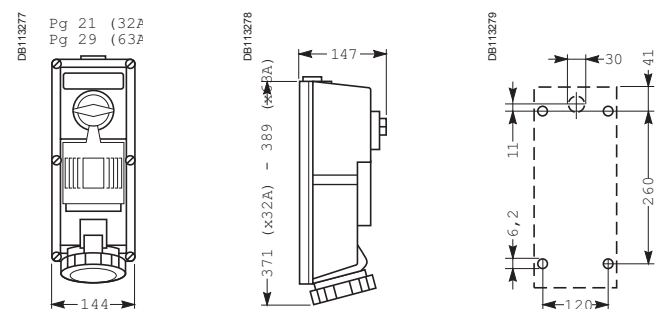


Sockets with DIN rail

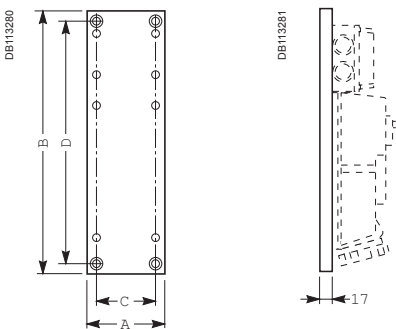
IP65 - 16 A et 32 A



IP65 - 32 A et 63 A

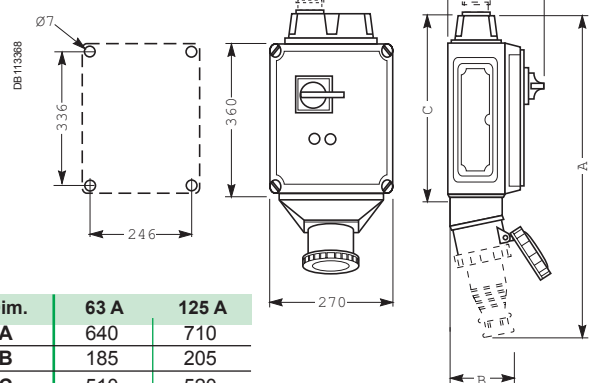


Modular panels



Isoblock - Sockets with safety switch and electrical interlock

IP65 - 63 A et 125 A



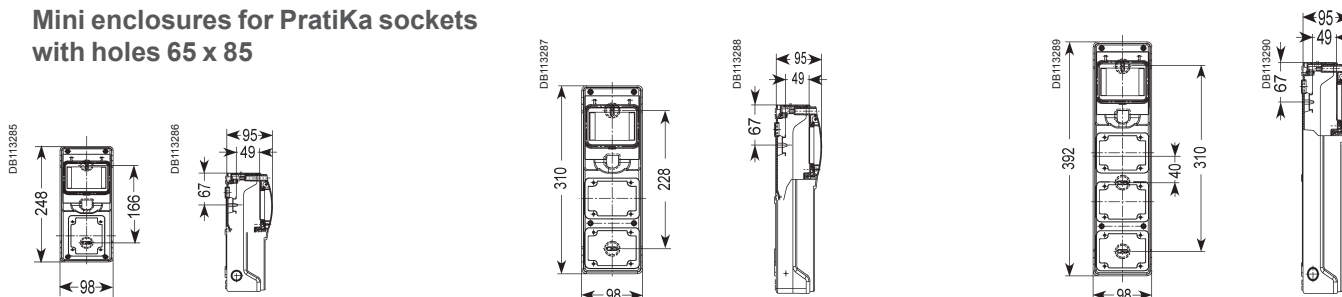
Dim.	83925 - 83325	83926 - 83326	83927 - 83327
A	111	222	151
B	535	535	535
C	81	192	121
D	514	514	514

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

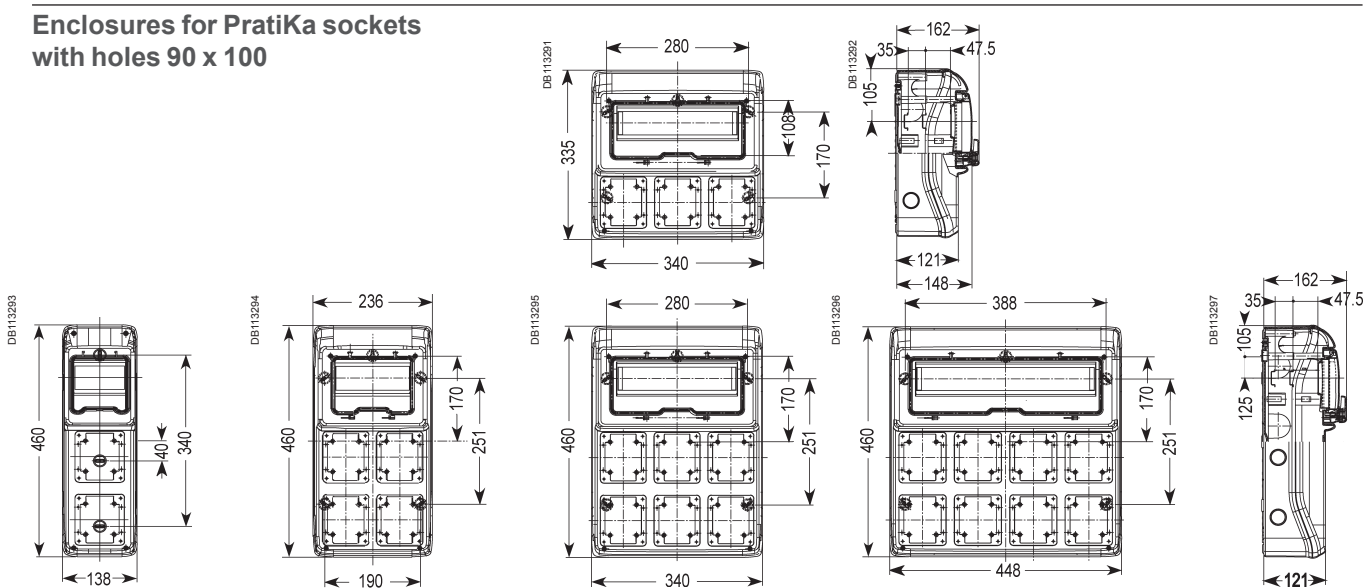
Kaedra System

Enclosures for sockets

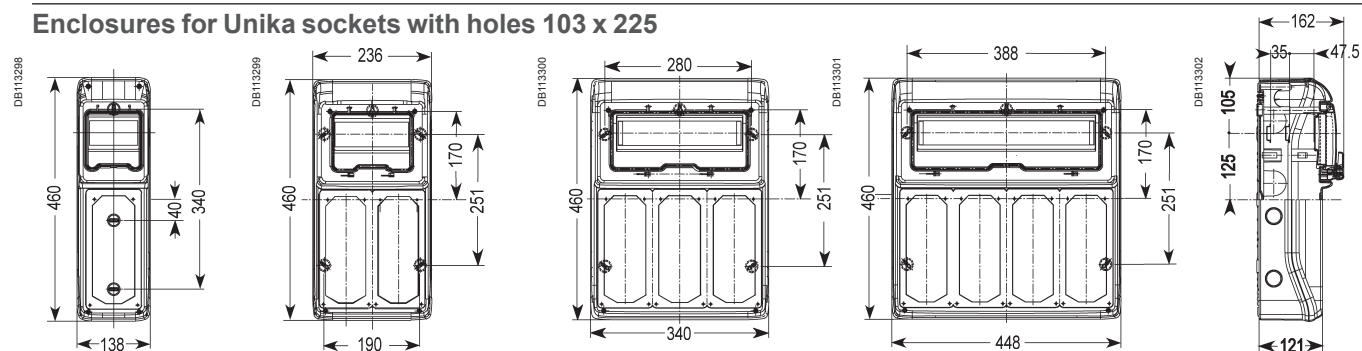
Mini enclosures for PratiKa sockets with holes 65 x 85



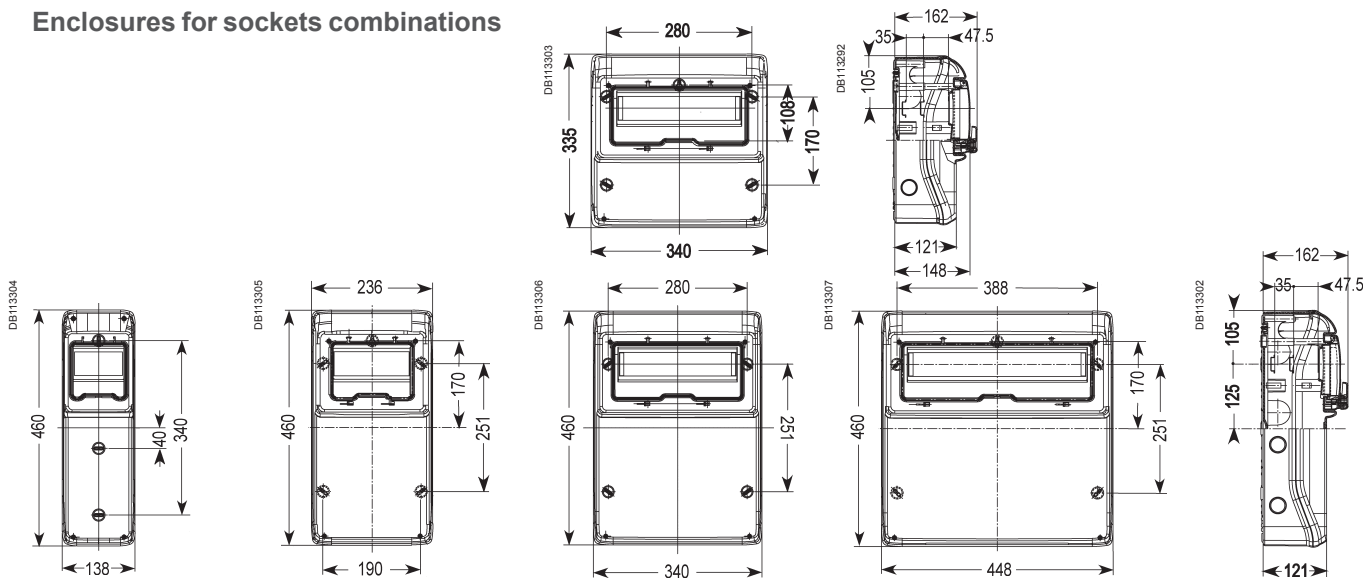
Enclosures for PratiKa sockets with holes 90 x 100



Enclosures for Unika sockets with holes 103 x 225



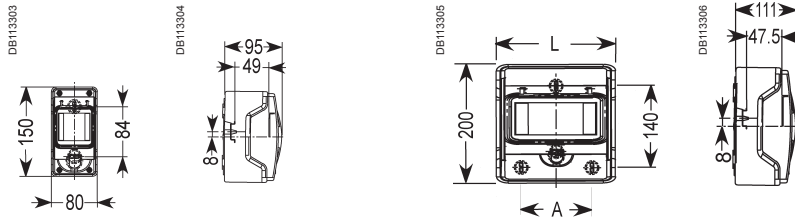
Enclosures for sockets combinations



Kaedra System

Enclosures for modular devices

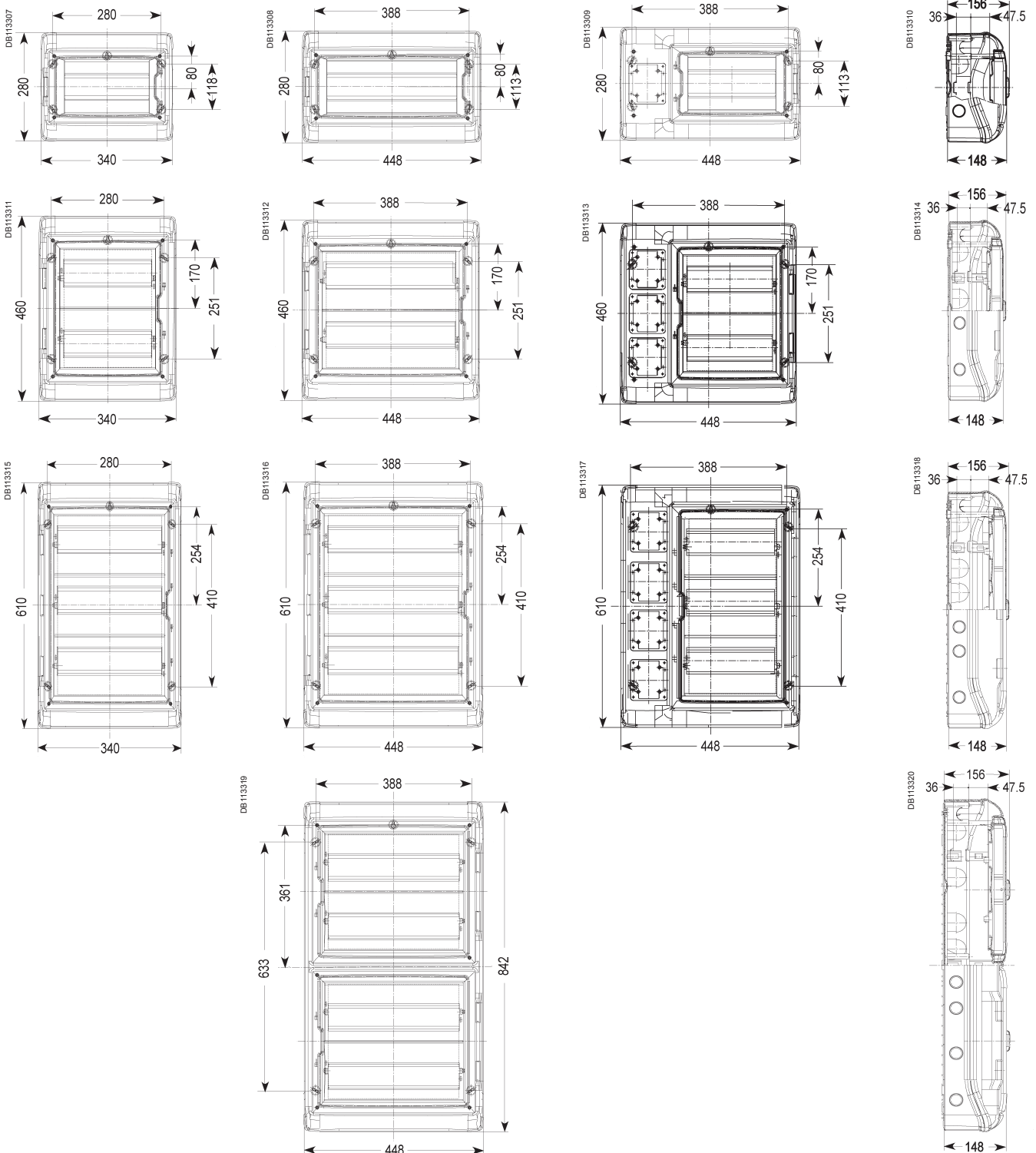
Mini enclosures for modular devices



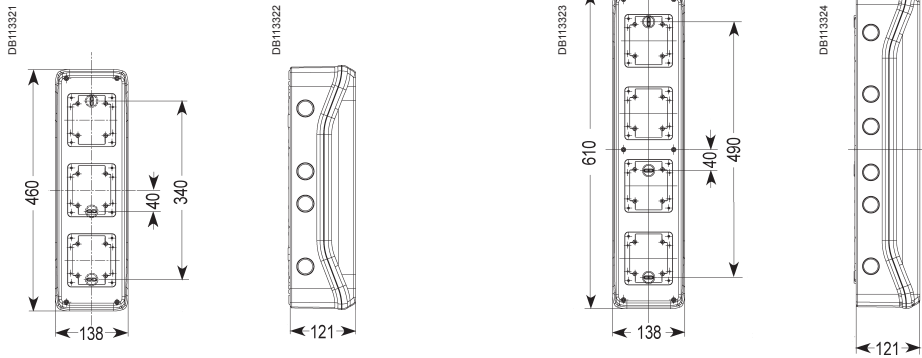
Modules	A	L
4	-	123
6	-	159
8	88	195
12	160	267

Enclosures for modular devices

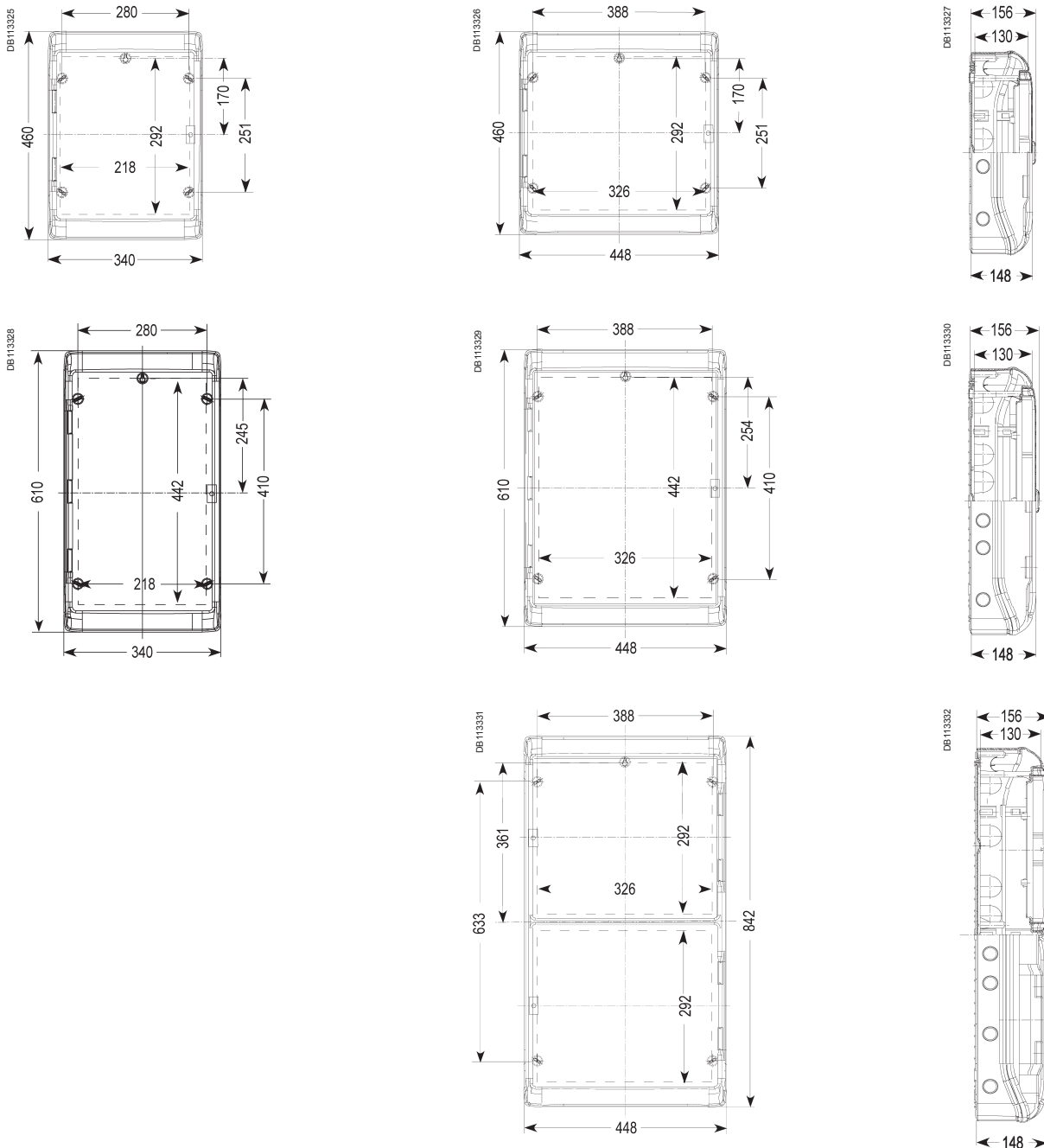
With interface



Interface enclosures



Universal enclosures



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10200	64	13925	64	81290	26, 33	81677	26, 33	81824	15, 20	82090	41, 42
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13142	47, 63	13986	56, 59	81388	14, 16	81698	26, 33	81895	14, 20	82111	37, 39
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