

TECHNICAL MANUAL
Power connectors EKF

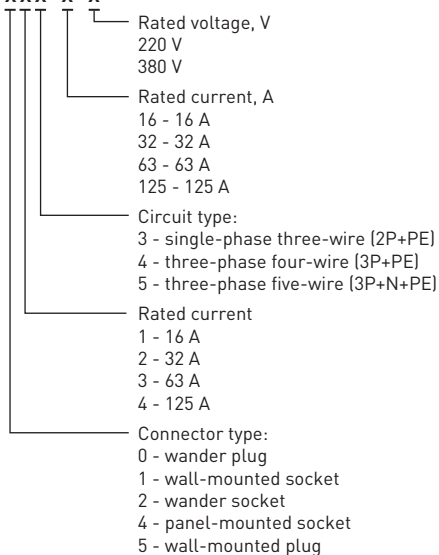
DESCRIPTION

The industrial power connectors PS EKF are designed for use in single-phase 230V and three-phase 400V 50Hz AC circuits.

Connectors are used for power supply of industrial and construction electrical equipment, electric-driven tools, mobile shop & food trucks, etc. The connectors PS EKF comply with the CEE standard, IEC 60309-1 and IEC 60309-2.

TYPE CODE

PS-XXX-X-X



2 TECHNICAL DATA

Main specifications are listed in Tables 1 – 5.

Table 1 – Characteristics of wall-mounted sockets

Characteristics	Values									
Item code	ps-113-16-220	ps-114-16-380	ps-115-16-380	ps-123-32-220	ps-124-32-380	ps-125-32-380	ps-133-63-220	ps-134-63-380	ps-135-63-380	ps-145-125-380
Number of contacts	2P + PE	3P+PE	3P+PE+N	2P + PE	3P+PE	3P+PE+N	2P + PE	3P+PE		3P+PE+N
Rated current, A	16			32			63		125	
Rated operating voltage, V	200-250	380-415		200-250	380-415		200-250	380-415		
Rated insulation voltage U_i , V	500									
Rated frequency, Hz	50									
Cross-section of connected wires, mm ²	1-2,5			2,5-6			6-16		16-50	
Connected cable diameter, mm	From 6,5			From 6,5			PG-29 gland (included)		PG-36 gland (included)	
Protective cover	+			+			+			
Connection	Screw clamp / terminal			Screw clamp / terminal			Screw clamp / terminal			
Cable entry	Inclined / angled			Inclined / angled			Inclined / angled			
PE contact position, h	6			6			6			
Degree of protection according to IEC 60529	IP44			IP44			IP67			
Color	Blue	Red		Blue	Red		Blue	Red		
Service life, years	10									

Table 2 – Characteristics of panel-mounted sockets

Characteristics	Values					
	ps-413-16-220	ps-414-16-380	ps-415-16-380	ps-423-32-220	ps-424-32-380	ps-425-32-380
Item code						
Number of contacts	2P+PE	3P+PE	3P+PE+N	2P + PE	3P+PE	3P+PE+N
Rated current, A	16	16		32		
Rated operating voltage, V	200-250	380-415		200-250	380-415	
Rated insulation voltage U_i ,	500					
Rated frequency, Hz	50					
Cross-section of connected wires, mm ²	1-2,5			2,5-6		
Protective cover	+	+		+		
Connection	Screw clamp / terminal	Screw clamp / terminal		Screw clamp / terminal		
Cable entry	Inclined / angled	Inclined / angled		Inclined / angled		
PE contact position, h	6	6		6		
Degree of protection according to IEC 60529	IP44	IP44		IP44		
Color	Blue	Red		Blue	Red	
Service life, years	10					

Table 3 – Characteristics of wander sockets

Characteristics	Values								
Item code	ps-213-16-220	ps-214-16-380	ps-215-16-380	ps-223-32-220	ps-224-32-380	ps-225-32-380	ps-233-63-220	ps-234-63-380	ps-235-63-380
Number of contacts	2P + PE	3P+PE	3P+PE+N	2P + PE	3P+PE	3P+PE+N	2P + PE	3P+PE	3P+PE+N
Rated current, A	16			32			63		
Rated operating voltage, V	200-250	380-415		200-250	380-415		200-250	380-415	
Rated insulation voltage U_i , V	500								
Rated frequency, Hz	50								
Cross-section of connected wires, mm ²	1-2,5			2,5-6			6-16		
Connected cable diameter, mm	From 6 to 16			From 8 to 20			From 16 to 38		
Protective cover	+			+			+		
Connection	Screw clamp / terminal			Screw clamp / terminal			Screw clamp / terminal		
Cable entry	Seal nut			Seal nut			Seal nut		
Connection position (angle)	Straight			Straight			Straight		
PE contact position, h	6			6			6		
Degree of protection according to IEC 60529	IP44			IP44			IP67		
Color	Blue	Red		Blue	Red		Blue	Red	
Service life, years	10								

Table 4 – Characteristics of wall-mounted plugs

Characteristics	Values					
Item code	ps-513-16-220	ps-514-16-380	ps-515-16-380	ps-523-32-220	ps-524-32-380	ps-525-32-380
Number of contacts	2P + PE	3P+PE	3P+PE+N	2P + PE	3P+PE	3P+PE+N
Rated current, A	16			32		
Rated operating voltage, V	200-250	380-415	380-415	200-250	380-415	
Rated insulation voltage U_i , V	500					
Rated frequency, Hz	50					
Cross-section of connected wires, mm ²	1-2,5			2,5-6		
Connected cable diameter, mm	From 3 to 18			From 3 to 18		
Protective cover	N/A					
Design	Surface mount plug					
Connection position (angle)	Rectangular (90°)			Rectangular (90°)		
PE contact position, h	6			6		
Degree of protection according to IEC 60529	IP44			IP44		
Color	Blue	Red		Blue	Red	
Service life, years	10					

Table 5 – Characteristics of wander plugs

For overall and installation dimensions refer to Figures 1 – 9 and Tables 6 – 10.

Wander plugs

Table 6 – Dimensions of wander plugs

Model	Figure no.	Dimensions, mm		
		A	B	C
013	1	122	55	51
023		135	71	64
014		122	61	54
024		134	71	64
015		125	69	64
025		145	78	70
033	2	231,5	110	16-110
034		231,5	110	16-110
035		231,5	110	16-110
045		295	123	30-123

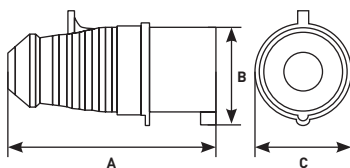


Figure 1

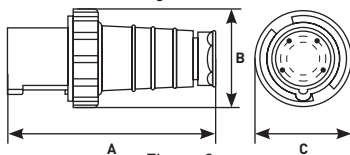


Figure 2

Wall-mounted plugs

Table 7 – Dimensions of wall-mounted plugs

Model	Figure no.	Dimensions, mm		
		A	B	C
513	3	125	71	43
523		139	81	58
514		130	72	49,5
524		139	81	58
515		130	77	55,5
525		143	83	63

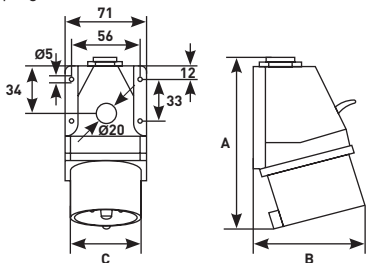


Figure 3

Wander sockets

Table 8 – Dimensions of wander sockets

Model	Figure no.	Dimensions, mm		
		A	B	C
213	4	130	71	51
223		145	92	64
214		131	77	55
224		144	92	64
215		135	90	63
233	5	240	115	108
234		240	115	108
235		240	115	108

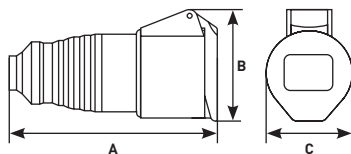


Figure 4

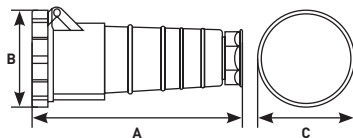


Figure 5

Wall-mounted sockets

Table 9 – Dimensions of wall-mounted sockets

Model	Figure no.	Dimensions, mm						
		A	B	C	D	E	F	G
113	6	135	88	51	-	-	-	-
123		151	98	64	-	-	-	-
114		139	92	55	-	-	-	-
124		151	99	64	-	-	-	-
115		139	96	63	-	-	-	-
125		152	104	70	-	-	-	-
133	7	134	311	108	111	20	155	6
134		134	311	108	111	20	155	6
135		134	311	108	111	20	155	6
145		154	338	122	130	20	187	6,2

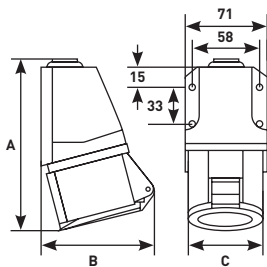


Figure 6

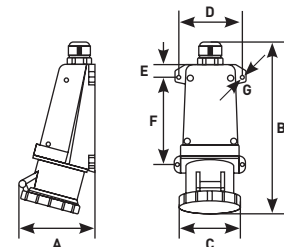


Figure 7

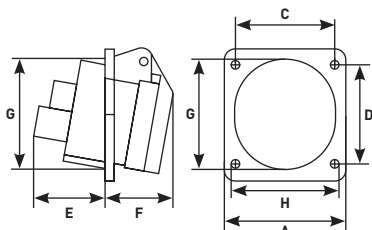


Figure 8

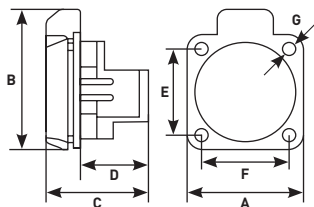


Figure 9

Panel-mounted sockets

Table 10 – Dimensions of panel-mounted sockets

Model	Figure no.	Dimensions, mm							
		A	B	C	D	E	F	G	H
413	8	62	70	48	49	34	38	55	49
423		82	100	61	72	44	43	74	65
414		77	88	62	63	40	36	63	56
424		81	100	61	72	44	43	74	64
415		75	86	60	62	39	35	70	61
425		82	100	62	73	45	45	81	71
112	9	50,6	65	41	26	38,5	38,5	5	-

3 DELIVERY SCOPE

The connectors are supplied in an individual package. For all available documentation, scan the QR-code on the insert or on the inside of the package.

4 SAFETY REQUIREMENTS

The connectors shall be operated only by qualified specialists, complying with national safety rules for operation of electrical installations.

DO NOT operate connectors with damaged housing or insulation.


DO NOT operate connectors with removed protective cases!

DO NOT connect connectors to damaged electrical wiring.

The total power consumption of electrical appliances connected to the connectors should not exceed the maximum power of the connector.

Before installation, disconnect mains power. Make sure the power is OFF before any work.

The connectors must be operated only with ground connection.

The ground is connected to the connector via a designated clamp .

To ensure protection degree compliant with IEC 60529, use the connectors only with the mating parts of compatible IP rating.

Discontinue using the connector, if it is damaged. Contact the seller, if the damage occurs within the warranty period.

5 MAINTENANCE

The connectors do not require special maintenance during operation.

The connectors are not serviceable. Replace the connectors in case of their failure.

6 OPERATION CONDITIONS

The ambient temperature ranges from -25 °C to +50 °C.

The maximum altitude above sea level is 2000 m.

7 TRANSPORTATION AND STORAGE

Power connectors can be transported by any means of enclosed transport that protects the packaged goods from mechanical impact and weather exposure. Products shall be transported at the temperature of -45°C to +50°C. The maximum air RH shall not exceed 100% at + 25°C.

The power connectors shall be stored indoors in the original package at the ambient temperature from -45°C to +50°C and relative humidity of max. 98% at +25°C.

8 DISPOSAL

Life-expired and failed products shall be disposed of in compliance with the effective national and local laws and regulations. To dispose of the product, send it to an authorized company for recycling in compliance with the effective national and local laws and regulations.

9 MANUFACTURER'S WARRANTY

The manufacturer guarantees the products comply with the declared characteristics, provided that consumers follow the operation, transportation and storage conditions.

Warranty period: 7 years from the date of sale specified in the sales receipt.

Shelf life: 7 years from the date of manufacture specified on the product packaging or housing.

Service life: 10 years.

Manufacturer: for information, refer to the product packaging.

Importer and EKF trademark service representative:

EKF ELECTRICAL SOLUTION – FZCO, Dubai Silicon Oasis, DDP, Building A2, Dubai, United Arab Emirates.

**Importer and EKF trademark service representative
on the territory of the Russian Federation:**

000 «Electroresheniya», Otradnaya st., 2b bld. 9, 5th floor, 127273, Moscow, Russia. Tel.: +7 (495) 788-88-15.

**Importer and EKF trademark service representative
on the territory of the Republic of Kazakhstan:**

TOO «Energoresheniya Kazakhstan», Kazakhstan, Almaty, Bostandyk district, Turgut Ozal st., 247, apt 4.

10 ACCEPTANCE CERTIFICATE

The power connectors have been approved for operation.

Date of manufacture: for information, refer to the product package.

Quality control stamp



EAC

v3



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