PHŒNIX CONTACT

Device connector, rear mounting - PRC 3-FT25-MC - 1409218

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Circular connectors (device-side), Range of articles: PRC, Device connector, rear mounting, housing material: PPE, color: black, number of positions: 3, nom. voltage: 690 V AC, rated current: 35 A, Connection method: Crimp connection, Type of contact: Pin

Your advantages

☑ Up to 75% smaller in size than industrial connectors with the same rating

☑ Locking mechanism can be unlocked manually or using a tool

☑ Ideal for indoor and outdoor use due to weatherproof materials

☑ Either pre-assembled or for assembly

RoHS

Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	4 046356 867719
GTIN	4046356867719

Technical data

General data

Number of positions	3
Protection class	II
Color	black
Locking type	Snap-in locking
Insertion/withdrawal cycles	50
Insertion force	30 N ±10 N
Degree of protection (not plugged in)	IP65 (Longitudinal watertightness, only in conjunction with contacts from the accessories range)
Degree of protection (when plugged in)	IP66 / IP68 (2m / 24h) / IP69K
Width	35 mm
Height	46.6 mm
Length	35 mm

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Technical data

Connection data

Rated current	35 A (With 6 mm² conductor cross section in accordance with IEC 61984)
	32 A (With 6 mm² conductor cross section in accordance with IEC 61535)
	21.4 A (With 6 mm² conductor cross section and 85 °C in accordance with 2 PfG 1915)
	35 A (With 6 mm²/AWG 10, in accordance with UL 2238)
Nominal voltage ATD	690 V AC (in accordance with IEC 61984)
	500 V AC (in accordance with IEC 61535/2 PfG 1915)
	600 V AC (In accordance with UL 2238)
Rated voltage (III/2)	690 V
Stripping length	12 mm
Torque	2.5 Nm ±0.1 Nm (Tightening torque nut)
Wrench size, union nut	32 mm
Type of contact	Pin
Stripping length of the sheath	12 mm
Connection method	Crimp connection
Degree of protection	IP66 / IP68 (2m / 24h) / IP69K
Insertion force	30 N ±10 N
Stripping length of the individual wire	12 mm
Overvoltage category	III
Insulating material group	I

Material data

Contact material	Cu alloy
Contact surface material	Ag
Contact carrier material	PPE
Housing material	PPE
Seal material	EPDM
O-ring material	Silicon
Cable gland material	PPE
Color of the housing part	black

Standards and Regulations

Flammability rating according to UL 94	V0
Safety note	• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.

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Standards and Regulations

|	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• Assembled products may not be manipulated or improperly opened.
	• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that the protective or functional ground has been properly connected.
	• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	• Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	• Only use tools recommended by Phoenix Contact
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	• Operate the connector only when it is fully plugged in.
	• Operate the connector only when it is fully plugged in and interlocked.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the minimum bending radius of the cable. Lay the cable without twisting it.
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Environmental Product Compliance

| China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Device connector, rear mounting - PRC 3-FT25-MC - 1409218

Dimensional drawing

Dimensional drawing

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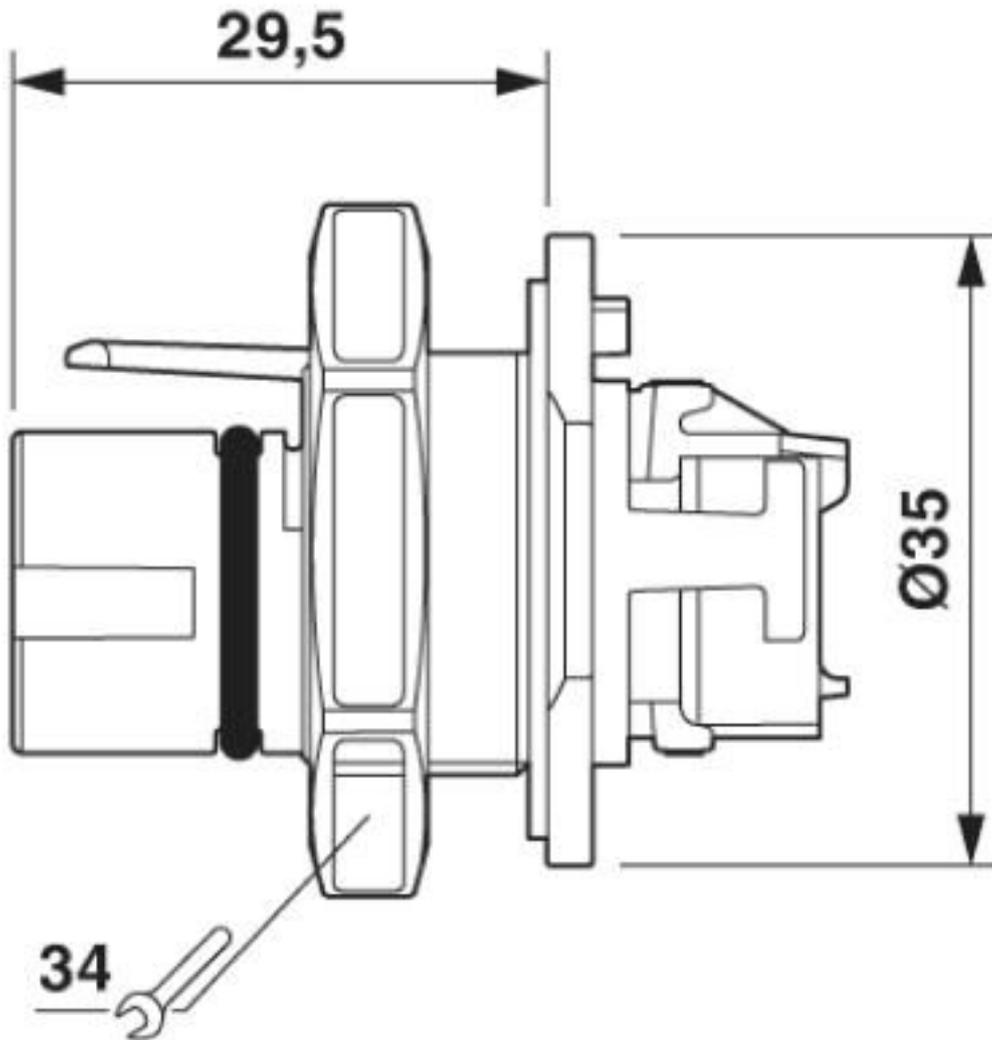
Device connector, rear mounting - PRC 3-FT25-MC - 1409218

Schematic diagram
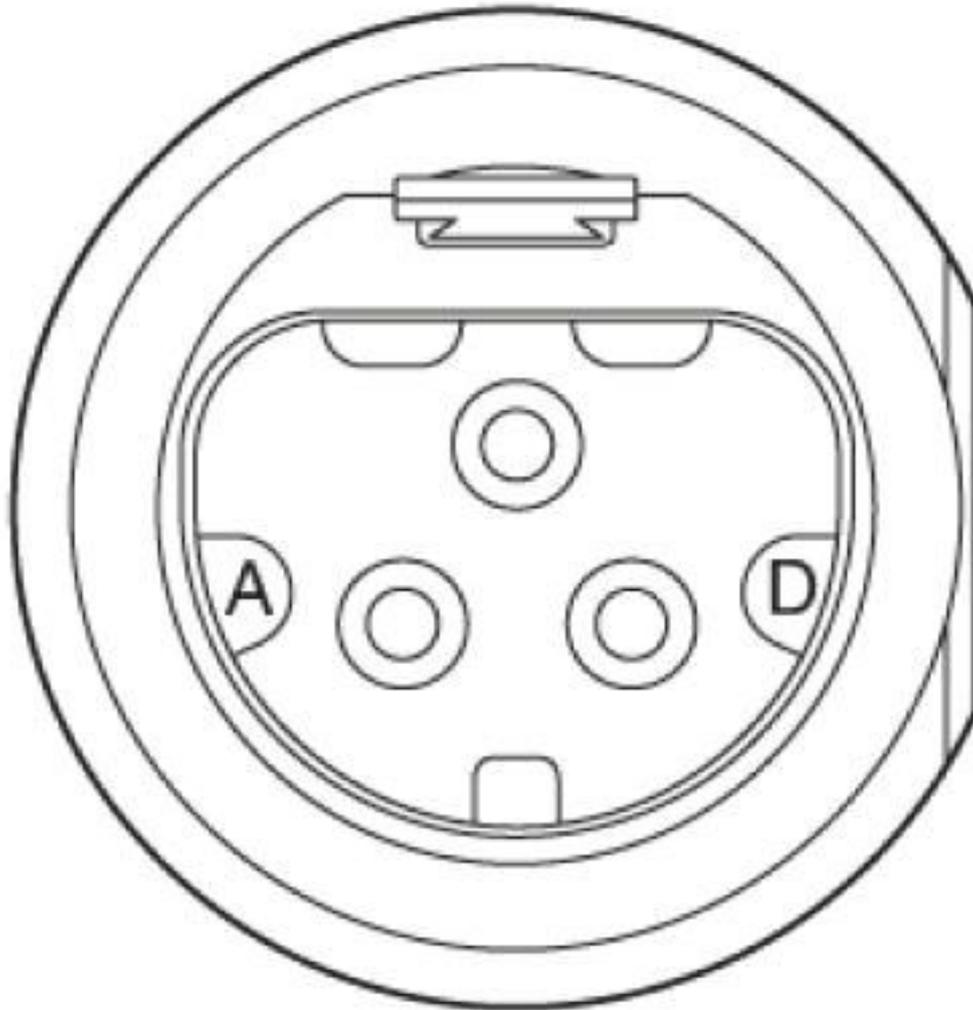
Connector pin assignment

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Dimensional drawing
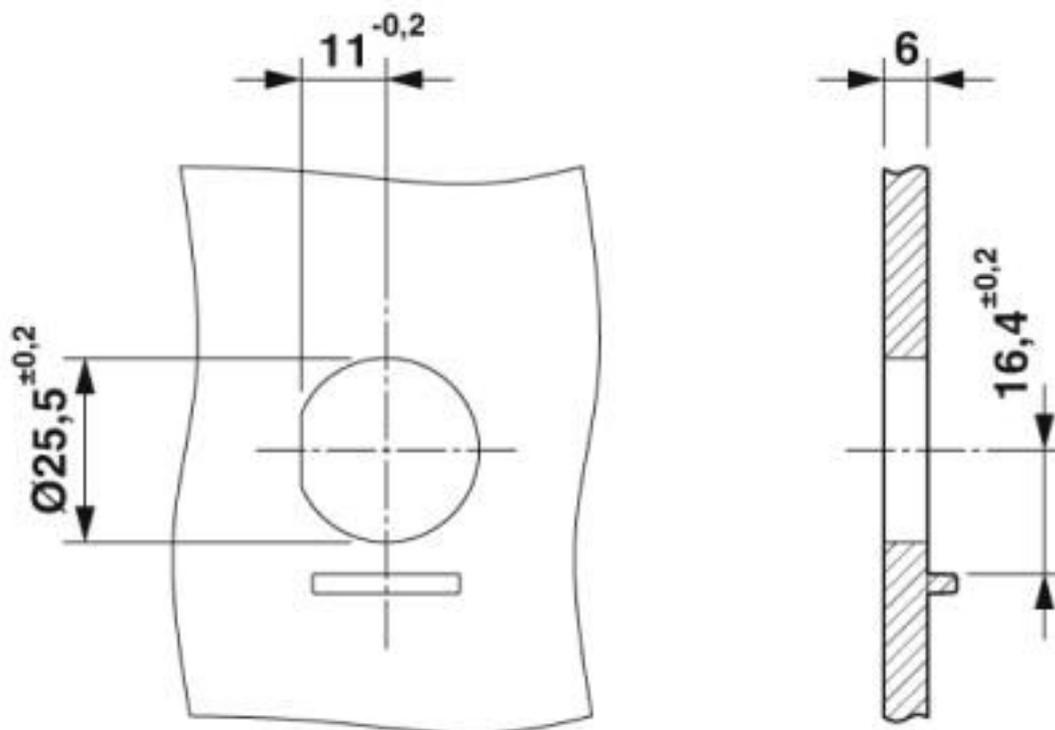
Housing cutout

Classifications

eCl@ss

eCl@ss 10.0.1	27440109
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27279200
eCl@ss 7.0	27440103
eCl@ss 8.0	27440102
eCl@ss 9.0	27440103

ETIM

ETIM 4.0	EC002061
ETIM 5.0	EC002061
ETIM 6.0	EC002061

UNSPSC

UNSPSC 6.01	30211923

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Classifications

UNSPSC

UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121413
UNSPSC 18.0	39121413
UNSPSC 19.0	39121413
UNSPSC 20.0	39121413
UNSPSC 21.0	39121413

Approvals

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EAC / DNV GL / UL Listed / cUL Listed / TÜV Rheinland / TÜV Rheinland / TÜV Rheinland / cULus Listed

Ex Approvals

Approval details

EAC	EAC		B.01687

DNV GL	DNV·GL	https://approvalfinder.dnvgl.com/	TAE00002KM

UL Listed	UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474-20150513

Nominal voltage UN	600 V
Nominal current IN	35 A
mm²/AWG/kcmil	14-10

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Approvals

cUL Listed	c(UL) LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E221474-20150513

Nominal voltage UN	600 V
Nominal current IN	35 A
mm²/AWG/kcmil	14-10

TÜV Rheinland	TÜVRheinland CERTIFIED	http://www.certipedia.com	R 60117908

TÜV Rheinland	TÜVRheinland CERTIFIED	http://www.certipedia.com	R 60117904-0002

Nominal voltage UN	690 V
Nominal current IN	35 A
mm²/AWG/kcmil	6

TÜV Rheinland	TÜVRheinland CERTIFIED	http://www.certipedia.com	R 60117904-0001

cULus Listed	c(UL)us LISTED

Accessories

Accessories

Circular connector (cable-side)

Crimp contact - CK2,5-M-2,5 AG - 1409207

Circular connectors (cable-side), Range of articles: PRC, Crimp contact, max. conductor cross section: 2.5 mm², Connection method: Crimp connection, Type of contact: Pin. Crimping recommendation: Crimp the conductors with the crimp contact in accordance with DIN EN 60352-2.

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Accessories

Crimp contact - CK2,5-M-4 AG - 1409208

Circular connectors (cable-side), Range of articles: PRC, Crimp contact, max. conductor cross section: 4 mm², Connection method: Crimp connection, Type of contact: Pin. Crimp the wire with the crimp contact in accordance with DIN EN 60352-2

Crimp contact - CK2,5-M-6 AG - 1409209

Circular connectors (cable-side), Range of articles: PRC, Crimp contact, max. conductor cross section: 6 mm², Connection method: Crimp connection, Type of contact: Pin. Crimp the wire with the crimp contact in accordance with DIN EN 60352-2

Crimping tool

Crimping pliers - CRIMPFOX-1,6/2,5-ED-4,0 - 1687419

Crimping pliers, for turned contacts, CK 1.6 ED... and CK 2.5 ED...

Crimping pliers - CRIMPFOX-4,0-ED-6,00 - 1205859

Crimping pliers, for CK 4,0... contacts, for 4.0 - 6.0 mm² conductor cross sections

Protective cover

Protective cap - PRC COVER M - 1409237

Protective cover, Range of articles: PRC, Protective cap, housing material: PPE, color: black. Suitable for connectors (MS)

Screwdriver tools

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Accessories

Screwdriver - SZF 1-0,6X3,5 - 1204517

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Screwdriver - SZF 0-0,4X2,5 - 1204504

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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