PRC 20/3-C1-FC-MC2,5 SET50 - Connector

1468417

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CRIMP



Connector, Range of articles: PRC 20, color: black, number of positions: 3, min. conductor cross-section: 0.5 mm^2, max. conductor cross-section: 2.5 mm^2, rated voltage: 400 V, rated current: 20 A, Connection method: Crimp connection, Setting option for release: 1. with a tool or 2. by hand

Your advantages

- More space on the device front with current transmission up to 20 A in a minimum amount of space
- Duo-Unlock technology for greater flexibility during installation and maintenance
- Reliable use under extreme ambient conditions with high degrees of protection and impact resistance
- Simple handling with proven crimp or screw connection technology
- Mechanical and color coding for quick and error-free startup

Commercial data

Item number	1468417
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	ABLHBB
Product key	ABLHBB
GTIN	4063151866426
Weight per piece (including packing)	32.456 g
Weight per piece (excluding packing)	32.249 g
Customs tariff number	85389099
Country of origin	PL

Technical data

Notes

Order information:	Setting option for release: 1. with a tool or 2. by hand
Note on application	For assembly notes, please refer to the packing slip

Product properties

Product type	Installation connector
Product family	PRC 20
Number of positions	3
Connection profile	2+PE
Coding	3-C1

Insulation characteristics

Protection class	II

Electrical properties

Rated voltage	400 V (III/2) in accordance with IEC 61984
	400 V AC (III/2) in accordance with IEC 61535
	600 V AC / DC (III/2) in accordance with UL 2238 / UL 2237
	500 V DC (III/2) in accordance with IEC 61535
Rated current	20 A (With 2.5 mm² conductor cross-section in accordance with IEC 61535)

Connection data

Connection technology

Connection method	Crimp connection

Dimensions

Width	28.5 mm
Height	28.5 mm
Length	80.4 mm

Material specifications

Color (Housing)	black (RAL 9005)
Material Seal	EPDM (Cable seal)
Material Housing	PPE
Material Contact carrier	PPE
Material Cable gland	PC
Material Contact	CuZn (Contact material, Pb < 0.1)

Cable/line

Single wire, cross section	0.5 mm² 2.5 mm²

Electrical tests

Specification	IEC 60352-2:2006-02
Connection method	Crimp connections

Impulse withstand voltage

Specification	IEC 60060-1:2010-09
Requirements, dielectric strength	No disruptive charge or sparkover
Additional text	The values specified apply to all repetitions of the same test within the normative test sequence.

Voltage proof

Specification	IEC 60512-4-1:2003-05
Requirements, dielectric strength	No disruptive charge or sparkover
Test voltage	3.31 kV AC
Additional text	The values specified apply to all repetitions of the same test within the normative test sequence.

Mechanical tests

Specification	IEC 60512-1-1:2002-02
Requirements, visual check	No defects that impair normal functionality.
Additional text	The values specified apply to all repetitions of the same test within the normative test sequence.

Dimensional examination

Specification	IEC 60512-1-2:2002-02
Requirements	There are releases available for all singleparts for the current revision status.
Specification	IEC 60512-13-2:2006-02
Requirements, insertion and withdrawal forces	No abrasion down to base material
No. of cycles	100

Polarization and coding

Specification	IEC 60512-13-5:2006-02
Insertion force	1,5 x mating force; 80 N max.

Provisions for earthing

Specification	IEC 61984:2008-10
Requirements	A protective contact connects first and disconnects last.

Contact retention in insert

Specification	IEC 60512-15-1:2008-05
Requirements	No axial offset should occur that can affect functions.

Cable clamp resistance to cable pull

Specification	IEC 60512-17-3:2010-06
Requirements	The permissible displacement or twisting must not exceed the values specified in the relevant standards based on the conductor properties.

Cable clamp resistance to cable torsion

Specification	IEC 60512-17-4:2010-06
Requirements	The permissible displacement or twisting must not exceed the values specified in the relevant standards based on the conductor properties.
Requirements, visual check	Loose parts or damage that would impair functionality are not permitted.

Mechanical strength impact

Specification	IEC 60512-7-2:2011-11
Requirements, visual check	Loose parts or damage that would impair functionality are not permitted.

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 2 h)
	IP69

Temperature rise

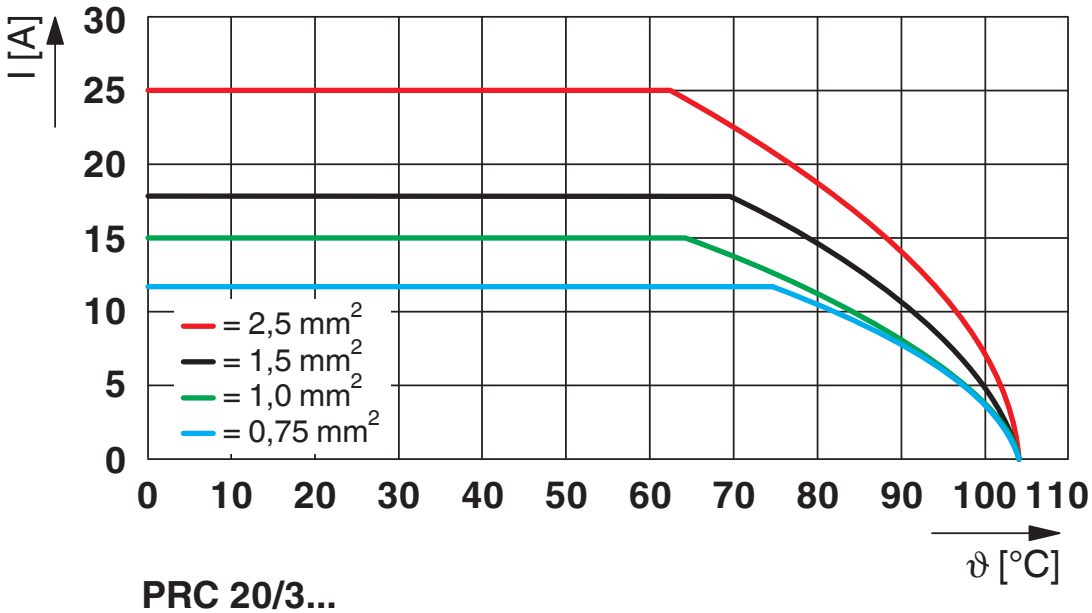
Specification	DIN EN 60512-5-1:2003-01 (following)
Requirements	The specified upper limiting temperature must not be exceeded.
Upper limiting temperature	105 °C
Specification	IEC 60512-11-10:2002-02
Requirements, visual check	No damage that can affect the intended use.
Cold stress	-40 °C/2 h
Specification	IEC 60512-11-9:2002-02
Requirements, visual check	No damage that can affect the intended use.
Thermal stress	105 °C/168 h

IP code X8 - continuous immersion

Specification	IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08
Requirements	Water may not penetrate in a harmful quantity when the housing is submerged in water continuously under conditions to be agreed between the manufacturer and user. However, the conditions must be more stringent than those of digit 7.
Test duration	2 h

Drawings

Diagram



Derating

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1468417

VDE Zeichengenehmigung
Approval ID: 334664-TL3-1

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	20 A	-	0.5 - 2.5

UL Listed
Approval ID: E221474-20240312

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	20 A	20 - 14	-

cUL Listed
Approval ID: E221474-20240312

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	20 A	20 - 14	-

Classifications

ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

ETIM

ETIM 10.0	EC002560

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Triphenyl phosphate(CAS: 115-86-6)

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