PHŒNIX CONTACT

Flush-type connector - SACC-DSI-M12MSS-3P-M16/0,5 PE - 1411653

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Flush-type connector, Universal, 3-position, PlugLink:M12, S power, Rear mounting, M16 x 1.5, Individual wires, Cable length: 0.5 m

Why buy this product

☑ Compact power supply voltage connector

☑ For industrial infrastructure applications

☑ Protection against mismatching thanks to S-coding

☑ Pre-assembled with litz wires for immediate use

☑ Customer-specific assemblies and litz wire lengths available

☑ Sealed on the litz wire side for optimum leak-tightness

☑ For high transmission safety: shield connection to the housing with optional EMC nut

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 937405
GTIN	4046356937405
Weight per Piece (excluding packing)	45.800 g
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Length of cable	0.5 m

Ambient conditions

Ambient temperature (operation)	-25 °C ... 105 °C (Plug / socket)
	-40 °C ... 105 °C (without mechanical actuation)
Degree of protection	IP65
	IP67

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Technical data

General

Note	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Rated current at 40°C	16 A
Rated voltage	630 V
Rated surge voltage	2 kV
Number of positions	3
Insulation resistance	≥ 100 MΩ
Coding	S power
Standards/regulations	M12 connector
Signal type/category	Universal
Status display	No
Overvoltage category	III
Degree of pollution	3
Connection method	Individual wires
Insertion/withdrawal cycles	> 100
Torque	3 Nm ... 4 Nm (M12 connector)
Mounting type	Rear mounting M16 x 1.5 With flat nut

Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material, knurls	CuZn alloy, nickel-plated
Sealing material	FKM

Cable

Cable type	PP litz wire
Conductor cross section	1.5 mm²
AWG signal line	16
Wire colors	black 1, black 2, green/yellow
Conductor material	Bare Cu litz wires
Standards/specifications	M12 connector
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-30 °C ... 90 °C (cable, flexible installation)

Standards and Regulations

Standard designation	M12 connector
Flammability rating according to UL 94	V0

Environmental Product Compliance

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Environmental Product Compliance

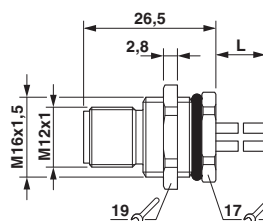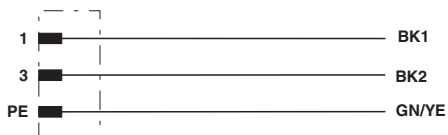| China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Schematic diagram

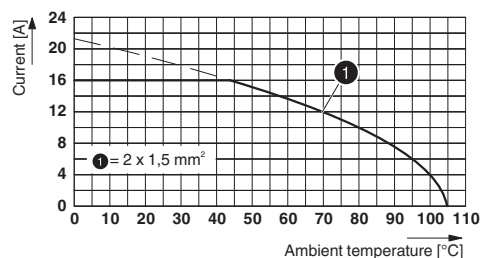Pin assignment of M12 plug, 3-pos., S-coded, view of pin side

Dimensional drawing

M12 flush-type plug

Circuit diagram

1 — BK1
3 — BK2
PE — GN/YE

Contact assignment of the M12 plug

Diagram

Derating diagram

Classifications

eCl@ss

eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 8.0	27440103
eCl@ss 9.0	27440102

ETIM

ETIM 4.0	EC002061
ETIM 5.0	EC002061
ETIM 6.0	EC002061

UNSPSC

UNSPSC 13.2	39121413

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Approvals

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EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

EAC	EAC	B.01742

UL Listed	UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 468743

mm²/AWG/kcmil	16
Nominal current IN	12 A
Nominal voltage UN	600 V

cUL Listed	c UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 468743

mm²/AWG/kcmil	16
Nominal current IN	12 A
Nominal voltage UN	600 V

cULus Listed	c UL us LISTED