ES-FT-BPC-S 16-25 OG - Connector

1106303

https://www.phoenixcontact.com/us/products/1106303

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Connector, Range of articles: BPC, color: orange, number of positions: 1, min. conductor cross section: 16 mm^2, max. conductor cross section: 25 mm^2, rated voltage: 1500, rated current: 120 A, Connection method: Screw connection, Contact connection type: Pin

Your advantages

- Patented design with "three proofs and one rotation"
- Mismatching and short circuit proof
- Touch-proof
- Foolproof mechanism installed
- 360° free rotation and flexible wiring
- Safety lock

Commercial data

Item number	1106303
Packing unit	15 pc
Minimum order quantity	15 pc
Sales key	AB04
Product key	ABLDBA
GTIN	4063151003494
Weight per piece (including packing)	29.707 g
Weight per piece (excluding packing)	24.8 g
Customs tariff number	85359000
Country of origin	CN

Technical data

Notes

Safety note

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.
	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• 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.
	• 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
	• 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
	• 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).
	• 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.

Product properties

Product type	Connectors for energy storage
Product family	BPC
Number of positions	1

Insulation characteristics

Degree of pollution	2

Electrical properties

Rated voltage (III/2)	1500 V DC
Nominal voltage ATD	1500 (III/2.00) in accordance with IEC 61984
	1000 in accordance with UL 4128
Rated current	120 A (with 25 mm² conductor cross-section, in accordance with IEC 61984)
	76 A (with 16 mm² conductor cross-section, in accordance with IEC 61984)
	120 A (with AWG 4, in accordance with UL 4128)
Contact resistance	≤ 5 mΩ
Insulation resistance	1000 MΩ
Nominal voltage U_N	1000 V (in accordance with UL 4128)

Connection data

Connection method	Screw connection
Tightening torque	0.6 ... 0.6 Nm

Material specifications

Color	orange
Material	Polyamide
	Copper
	Silicon
Flammability rating according to UL 94	V0

Cable/line

Single wire, cross section	16 mm² 25 mm²
AWG signal line	4
Cable pull-out force	≥ 10 N

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	100
Insertion force	≤ 75 N
Withdrawal force	≥ 10 N

Environmental and real-life conditions

Ambient conditions

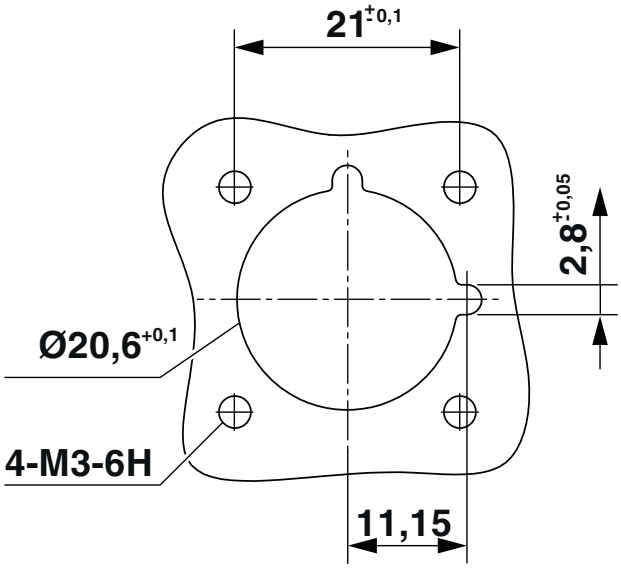
Degree of protection (when plugged in)	IP65 (The panel is feed-through hole)
Degree of protection (not plugged in)	IP20
Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	4000 m

Standards and regulations

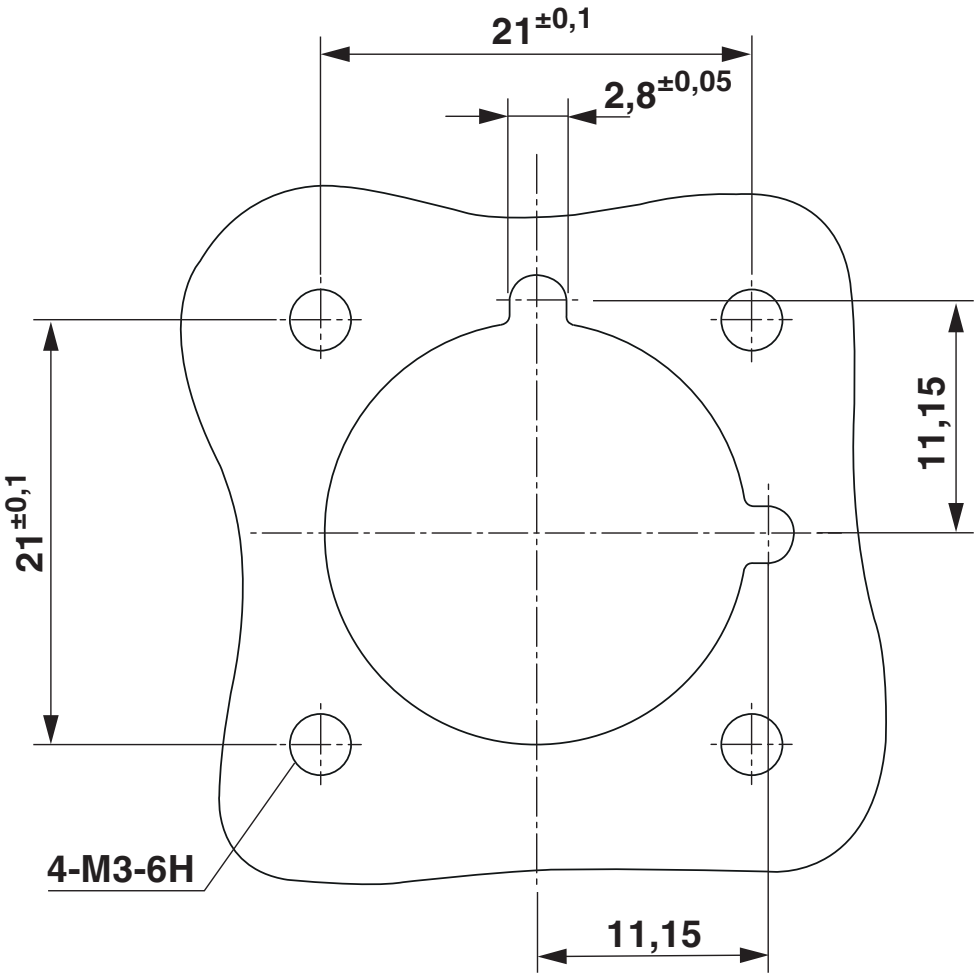
Standards/specifications	IEC 61984:2008
	EN 61984:2008
	UL 4128
	PPP 51090A

Drawings

Dimensional drawing



Drilling plan/solder pad geometry



Classifications

ECLASS

ECLASS-11.0	27060106
ECLASS-12.0	27060106
ECLASS-13.0	27060106

ETIM

ETIM 9.0	EC003250

UNSPSC

UNSPSC 21.0	26121600

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.)	No substance above 0.1 wt%

Accessories

ES-FT-BPC PROTECTION CAP - Dust protection cover

1130817

https://www.phoenixcontact.com/us/products/1130817



Dust protection cap for energy storage connector , color: black RAL9005, ambient temperature for storage and transportation: -40°C ~70°C, operating temperature: -20°C ~105°C, halogen-free, engineering plastics: UL94 HB, protection class: IP65 (with socket)

ES-BPC-C 16-25 OG - Connector

1106306

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Connector, Range of articles: BPC, color: orange, number of positions: 1, min. conductor cross section: 16 mm^2, max. conductor cross section: 25 mm^2, rated voltage: 1500, rated current: 120 A, Connection method: Crimp, Contact connection type: Socket, min. cable diameter: 7.2 mm, max. cable diameter: 10.7 mm

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