

1607054

https://www.phoenixcontact.com/us/products/1607054

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Rear panel feed-through, straight long, Screw locking mechanism, M23, number of positions: 4+3+PE, contact connection type: Pin, Axial O-ring, 4xM3, shielded: yes, degree of protection: IP67, cable diameter range: 9 mm ... 12 mm, number of positions: 8, connection method: Crimp connection, series: SF

Your advantages

- Consistent EMC protection for reliable connection solutions in the industrial environment
- · Crimping connection: vibration- and temperature-resistant assembly
- · Flexible use: reliably connect various cable diameters

Commercial data

Item number	1607054
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	AB32
Product key	ABRBFJ
Catalog page	Page 158 (C-2-2019)
GTIN	4046356253819
Weight per piece (including packing)	138.89 g
Weight per piece (excluding packing)	138.89 g
Customs tariff number	85366990
Country of origin	DE



1607054

https://www.phoenixcontact.com/us/products/1607054

Technical data

Notes

General	Order crimp contacts 4 x Ø 1 mm, 4 x Ø 2 mm separately
Safety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	 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.
	 The products are suitable for applications in plant, controller, and electrical device engineering.
	 When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	 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
	 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.
	 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



1607054

Type

https://www.phoenixcontact.com/us/products/1607054

Mounting 4x M3 oduct properties Product type Circular connectors (device side) Number of positions 8 Connection profile 4+3+PE Application Power Series SF Shielded yes Coding N Thread type M23 aterial specifications Seal material FPM Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GE Zn) Insulator material PPM ectrical properties Contact Contact diameter 2 mm Max. current 30 A Nominal votage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V		warnings (e.g. DIN EN ISO 13732-1:2008-12).
Mounting 4x M3 coduct properties Product type Circular connectors (device side) Number of positions 8 Connection profile 4+3+PE Application Power Series SF Shielded yes Coding N Thread type M23 aterial specifications Seal material FPM Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (SIZn) Insulator material PA 6.6 Gasket and O-ring material FPM ectrical properties Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact 9 A Nominal voltage U _N 630 V Overvoltage category III Nominal voltage U _N 630 V Overvoltage category		
roduct properties Product type Number of positions Connection profile Application Power Series Sriedd Application Power Series Sriedd yes Coding N Thread type M23 laterial specifications Seal material Housing material Housing material FPM Insulator material Gasket and O-ring material PA 6.6 Gasket and O-ring material FPM Insulator material Contact Contact diameter Max. current Max. current Max current Degree of pollution Rated surge voltage Contact Contact diameter 1 mm Max. current Max. cu	lounting	
Number of positions 8 Connection profile 4+3+PE Application Power Series SF Shielded yes Coding N Thread type M23 Iaterial specifications Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (SEZn) Insulator material FPM Housing material PA 6.6 Gasket and O-ring material FPM lectrical properties Contact Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact Contact diameter Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3<	Mounting	4x M3
Number of positions 8 Connection profile 4+3+PE Application Power Series SF Shielded yes Coding N Thread type M23 Iaterial specifications FPM Seal material FPM Housing material PA 6.6 Gasket and O-ring material PA 6.6 Gasket and O-ring material FPM lectrical properties Contact 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact Contact diameter Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Onnection data Contact tonnection Crimp c	roduct properties	
Connection profile 4+3+PE Application Power Series SF Shielded yes Coding N Thread type M23 Material Specifications FPM Seal material FPM Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (StZn) Insulator material PA 6.6 Gasket and O-ring material FPM Electrical properties Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V	Product type	Circular connectors (device side)
Application Power Series SF Shielded yes Coding N Thread type M23 laterial specifications FPM Housing material FPM Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GEZn) Insulator material PA 6.6 Gasket and O-ring material FPM Ilectrical properties Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 connection data Connection method Crimp connection	Number of positions	8
Series Shielded yes Coding N Thread type M23 Iaterial specifications Seal material Housing material FPM Housing material PA 6.6 Gasket and O-ring material FPM Iectrical properties Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category III Degree of pollution Rated surge voltage Contact Contact diameter 1 mm Max. current Max. current 9 A Nominal voltage U _N Overvoltage category III Degree of pollution 3 Rated surge voltage Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N Overvoltage category III Degree of pollution 3 a Rated surge voltage I mm Max. current 9 A Nominal voltage U _N Overvoltage category III Degree of pollution 3 a Nominal voltage U _N Overvoltage category III Degree of pollution 3 a Nominal voltage U _N Overvoltage category III Degree of pollution 3 a Onnection data Conductor connection Connection method Crimp connection	Connection profile	4+3+PE
Shielded yes Coding N Thread type M23 Iaterial specifications Seal material FPM Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GEZn) Insulator material PA 6.6 Gasket and O-ring material FPM Iectrical properties Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage U _N 630 V Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact Overvoltage voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Covervoltage category IIII Degree of pollution 3 Rated surge voltage U _N 630 V Covervoltage category IIII Degree of pollution 3 Connection data Connection data Conductor connection Connection method Crimp connection	Application	Power
Coding Thread type Maximaterial specifications Seal material Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GCZn) Insulator material PA 6.6 Gasket and O-ring material FPM Ilectrical properties Contact Contact Contact diameter Max. current Max. current 30 A Nominal voltage U _N 0 e30 V Overvoltage category III Degree of pollution Rated surge voltage Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 0 630 V Overvoltage category III Degree of pollution 3 a Rated surge voltage 1 mm Max. current 9 A Nominal voltage U _N 0 630 V Overvoltage category III Degree of pollution 3 a Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 0 overvoltage category III Degree of pollution 3 a Connection data Connection method Crimp connection	Series	SF
Interest type Material specifications	Shielded	yes
laterial specifications Seal material FPM Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GEZn) Insulator material PA 6.6 Gasket and O-ring material FPM Idectrical properties Contact Contact Contact diameter 2 mm Max. current 30 A Nominal voltage UN Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage UN Overvoltage category III Degree of pollution 3 Contact Contact diameter 1 mm Max. current 9 A Nominal voltage UN Overvoltage category III Degree of pollution 3 Contact Contact diameter 1 mm Contact diameter 1 mm Max. current 9 A Nominal voltage UN Overvoltage category III Degree of pollution 3 Connection data Conductor connection Connection method Crimp connection	Coding	N
Seal material FPM Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GEZn) Insulator material PA 6.6 Gasket and O-ring material FPM lectrical properties Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 3 mm Max. current 9 A Nominal voltage U _N 630 V Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Nominal voltage contact 3 mm Max. current 9 A Nominal voltage contact 3 mm Contact Cortact diameter 1 mm Max. current 9 A Nominal voltage contact 3 mm Contact Cortact diameter 3 mm Contact Cortact diameter 3 mm Contact Cortact diameter 3 mm Cortact Cortact Cortact diameter 3 mm Cortact	Thread type	M23
Seal material FPM Housing material Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GEZn) Insulator material PA 6.6 Gasket and O-ring material FPM lectrical properties Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 3 mm Max. current 9 A Nominal voltage U _N 630 V Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Nominal voltage contact 3 mm Max. current 9 A Nominal voltage contact 3 mm Contact Cortact diameter 1 mm Max. current 9 A Nominal voltage contact 3 mm Contact Cortact diameter 3 mm Contact Cortact diameter 3 mm Contact Cortact diameter 3 mm Cortact Cortact Cortact diameter 3 mm Cortact	laterial specifications	
Insulator material		FPM
Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 30 A Nominal voltage U _N 6 kV Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Contact diameter 1 mm Contact diameter 1 mm Contact diameter 3 A Nominal voltage U _N 630 V Contact diameter 3 A Nominal voltage Contact diameter 3 Con	Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GEZn)
lectrical properties Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 a Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Connection data Conductor connection Connection method Crimp connection	Insulator material	PA 6.6
Contact Contact diameter 2 mm Max. current 30 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category IIII Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category IIII Degree of pollution 3 connection data Conductor connection Connection method Crimp connection	Gasket and O-ring material	FPM
Max. current Nominal voltage U _N Overvoltage category III Degree of pollution Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N Overvoltage category III Degree of pollution 3 Connection data Conductor connection Connection method Crimp connection		
Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N Overvoltage category III Degree of pollution 3 Connection data Conductor connection Connection method 630 V Crimp connection		2 mm
Overvoltage category Degree of pollution Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 connection data Conductor connection Connection method Crimp connection	Contact diameter	
Degree of pollution Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Connection data Conductor connection Connection method Crimp connection	Contact diameter Max. current	30 A
Rated surge voltage 6 kV Contact Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 connection data Conductor connection Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N	30 A 630 V
Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 Connection data Conductor connection Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category	30 A 630 V III
Contact diameter 1 mm Max. current 9 A Nominal voltage U _N 630 V Overvoltage category III Degree of pollution 3 onnection data Conductor connection Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	30 A 630 V III 3
Nominal voltage U _N Overvoltage category Degree of pollution 3 onnection data Conductor connection Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage	30 A 630 V III 3
Nominal voltage U _N Overvoltage category Degree of pollution 3 Connection data Conductor connection Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact	30 A 630 V III 3 6 kV
Overvoltage category III Degree of pollution 3 connection data Conductor connection Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter	30 A 630 V III 3 6 kV
Degree of pollution 3 Connection data Conductor connection Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current	30 A 630 V III 3 6 kV
Connection data Conductor connection Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N	30 A 630 V III 3 6 kV 1 mm 9 A 630 V
Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category	30 A 630 V III 3 6 kV 1 mm 9 A 630 V III
Connection method Crimp connection	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	30 A 630 V III 3 6 kV 1 mm 9 A 630 V III
	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	30 A 630 V III 3 6 kV 1 mm 9 A 630 V III
	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution	30 A 630 V III 3 6 kV 1 mm 9 A 630 V III 3
	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Connection data Conductor connection Connection method Contact connection type	30 A 630 V III 3 6 kV 1 mm 9 A 630 V III 3
Connector	Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Rated surge voltage Contact Contact diameter Max. current Nominal voltage U _N Overvoltage category Degree of pollution Connection data Conductor connection Connection method	30 A 630 V III 3 6 kV 1 mm 9 A 630 V III 3

straight long



1607054

https://www.phoenixcontact.com/us/products/1607054

Cable/line

External cable diameter	9 mm 12 mm
-------------------------	------------

Environmental and real-life conditions

Ambient conditions

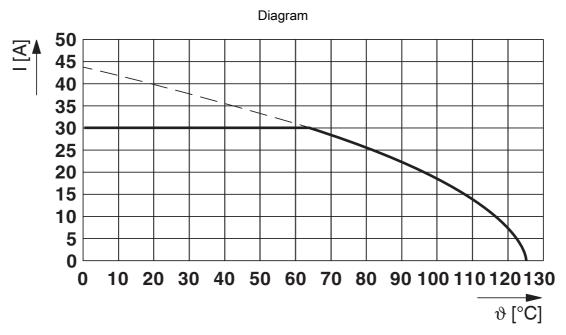
Degree of protection	IP67
Ambient temperature (operation)	-40 °C 125 °C
Altitude	3000 m



1607054

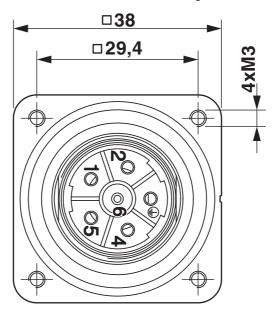
https://www.phoenixcontact.com/us/products/1607054

Drawings



I = current strength, T = ambient temperature

Dimensional drawing

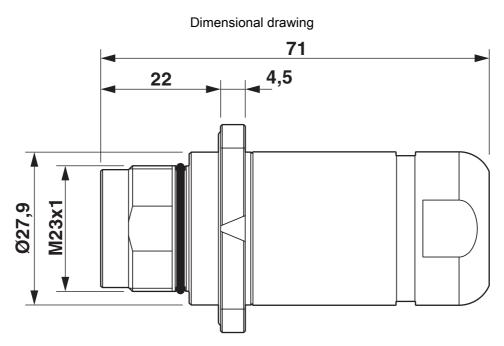


Flange dimensions (Figure shows the 6-pos. version)



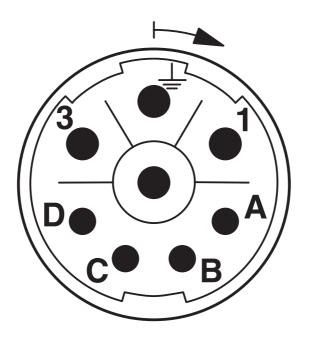
1607054

https://www.phoenixcontact.com/us/products/1607054



Dimensional drawing

Schematic diagram

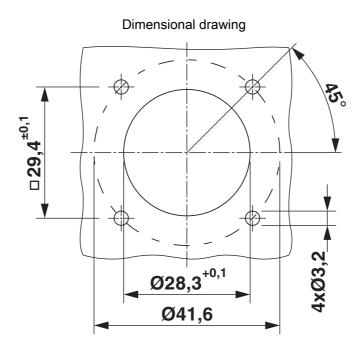


Connector pin assignment



https://www.phoenixcontact.com/us/products/1607054





Installation dimensions



1607054

https://www.phoenixcontact.com/us/products/1607054

Classifications

_	\sim	$\Lambda \cap \cap$
		A.7.7

	ECLASS-11.0	27440102
F	ГІМ	
_		
	ETIM 8.0	EC002635
UI	NSPSC	
	UNSPSC 21.0	39121400



1607054

https://www.phoenixcontact.com/us/products/1607054

Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com