

1627204

https://www.phoenixcontact.com/us/products/1627204

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M23, Device connector rear mounting, series: SH, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+4+PE, contact connection type: Socket, Crimp connection, Flat gasket, Central fastening M26 x 1, Panel thickness min.: 1.5 mm, Panel thickness max.: 5 mm, coding: N

## Your advantages

- · All housing can be fitted with pin or socket contacts
- · A total of eight contacts are available for signal transmission
- · Safe use in the field, thanks to high degree of protection
- · Consistent EMC protection for reliable connection solutions in the industrial environment

## Commercial data

Item number	1627204
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB33
Product key	ABRCDR
Catalog page	Page 120 (C-2-2019)
GTIN	4055626407999
Weight per piece (including packing)	72.6 g
Weight per piece (excluding packing)	72.2 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Safely note       WARNING: The connectors may not be upugged in or disconnected under load, liporing the warning or improper use may damage persons and/or property.         • WARNING: Commission property functioning products only. The products must be required leading of products. Replace damaged products. Replace	Safety note	
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 ontes. The qualified personnel may be familiar with the basics of electrical engineering. They must be able to lowing safety prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with the basics of electrical device engineering. • When operating the connectors in outdoor applications, they must be separately protected against environmental influences. • Assembled products may not be maipulated 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 phoenixconitact.com/products). • When using the product in direct connector with third-party manufacturers, the user is responsible. • For operating voltages > 50 V AC, conductive connector housings must be grounded • For operating voltages > 50 V AC, conductive connector housings must be grounded • Only use that the protective or functional ground has been properly connector • Only use tools recommended by Phoenix Contact • Only use tools recommended by Phoenix Contact • Only use tools recommended by Phoenix Contact • Only use tools reconnector only when it is fully plugged in and interlocked. • Only use tools reconnector only when it is fully plugged in and interlocked. • Observe the minimum bending radius of the cable. Lay the cable without twisting it. • Observe the minimum bending radius of the cable. Lay the cable without twisting it.	Safety note	disconnected under load. Ignoring the warning or improper use
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### Product properties

Product type	Circular connectors (device side)	
Data management status		
Article revision	08	
Material specifications		
Flammability rating according to UL 94	V0	

#### Connector

Insulating body

Note	Order information: Crimp contacts, 8 x Ø 1 mm, 5 x Ø 2 mm, order separately
Protection against electric shock	IEC 61984 and VDE 0623
Coding	Ν
Insulation body material	PA 6.6
Insertion/withdrawal cycles	100
Connection method	Crimp connection
Contact switching type	Socket
Application	Hybrid
Number of positions	13
Connection profile	8+4+PE
Contact diameter Power contacts	2 mm
Litz wire cross-section Power contacts min.	0.25 mm <sup>2</sup>
Litz wire cross-section Power contacts max.	4 mm <sup>2</sup>
Rated current Power contacts	30 A
Rated surge voltage	6 kV
Rated voltage (II/3) power contact	850 V DC
Rated voltage (III/3) power contact	630 V AC
Contact diameter Signal contacts	1 mm
Litz wire cross-section Signal contacts min.	0.06 mm <sup>2</sup>
Litz wire cross-section Signal contacts max.	1 mm <sup>2</sup>
Nominal current per signal contact	8 A
Note	for max. connection cross section
Rated surge voltage	1.5 kV
Rated voltage (III/3) signal contact	50 V
Installation height	2000 m

#### Housing

Housing material	CuZn
Type of locking	for standard and SPEEDCON interlock
Degree of protection (plugged in)	IP67



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Inread type M23
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### Environmental and real-life conditions

Ambient conditions

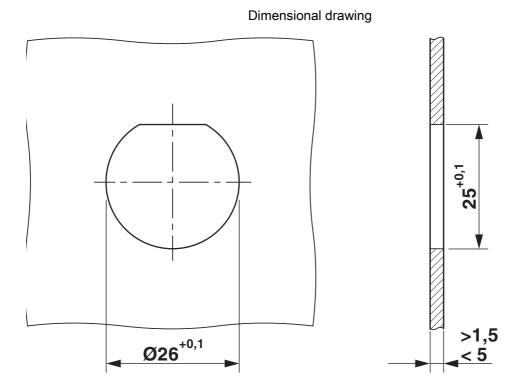
Ambient temperature (operation)	-40 °C 115 °C (see derating curve)
Ambient temperature (storage/transport)	15 °C 25 °C
Permissible humidity (storage/transport)	50 % 65 %



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## Drawings

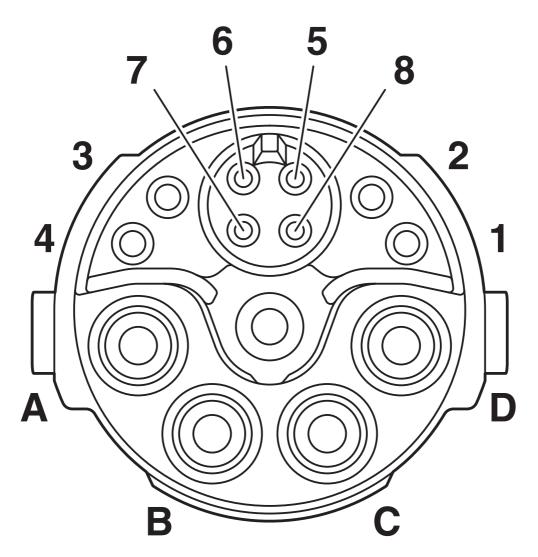


Installation dimensions



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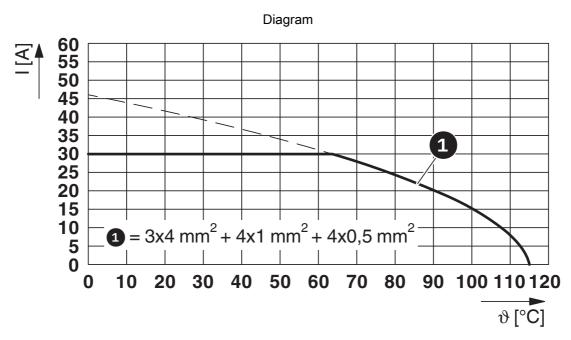
Schematic diagram



Socket pin assignment, signal



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I = current strength,  $\vartheta$  = ambient temperature, power contacts A-C: 3 x up to 30 A, signal contacts: 4 x 2 A constant, data contacts: 4 x 1 A constant



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## Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1627204





UL Recognized Approval ID: E153698-20181206

cULus Recognized



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## Classifications

### ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

### ETIM

	ETIM 9.0	EC003569
UNSPSC		
	UNSPSC 21.0	39121400



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## 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%

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