

https://www.phoenixcontact.com/us/products/3209905



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Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 5, number of positions: 5, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: Plug-in mounting, color: gray

Your advantages

- · Large-surface labeling option
- · The Push-in technology COMBI plugs for self-assembly provide solutions that users can implement themselves
- · Tested for railway applications

Commercial data

Item number	3209905
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2244
Catalog page	Page 298 (C-1-2019)
GTIN	4046356366793
Weight per piece (including packing)	16.916 g
Weight per piece (excluding packing)	16.78 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Notes

General

Note	For the rated insulation voltage, the most unfavorable paths
	when plugged in are those that count.

Product properties

Product type	Terminal plug
Area of application	Railway industry
	Machine building
	Plant engineering
Number of positions	5
Pitch	5.2 mm
Number of connections	5
Number of rows	1
Potentials	1
Data management atatus	

Data management status

Article revision	05
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	5
Nominal cross section	2.5 mm ²

1 level

1.000	
Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 61984
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	26 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² 0.5 mm²



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2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	24 A
Maximum load current	24 A (with 4 mm² conductor cross section)
Nominal voltage	500 V
Nominal cross section	2.5 mm²
evel Connection cross sections directly pluggable Conductor cross section rigid	0.34 mm² 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² 2.5 mm²
,	0.34 mm² 2.5 mm² 0.34 mm² 2.5 mm²
Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) ensions	

15.8 mm 40.2 mm

5.2 mm

Material specifications

Height

Depth Pitch

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Mechanical properties

Mechanical data

Open side panel	No

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C (max. operating temperature see derating curve)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, no longer than 24 h, -60 °C to +70 °C)

Thread type



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Ambient temperature (assembly)	-5 °C 70 °C		
Ambient temperature (actuation)	-5 °C 70 °C		
Permissible humidity (operation)	20 % 90 %		
Permissible humidity (storage/transport)	30 % 70 %		
Standards and regulations			
Connection in acc. with standard	IEC 61984		
Mounting			
Mounting type	Plug-in mounting		

3209905

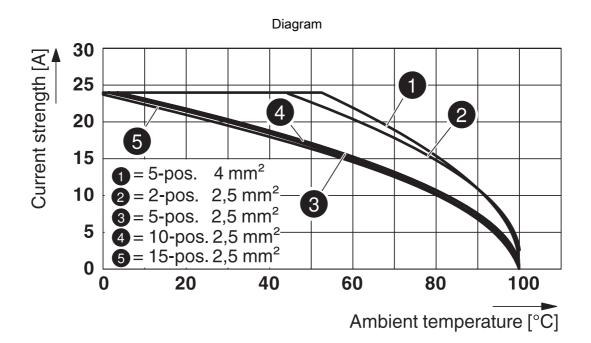
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Drawings

Circuit diagram







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3209905

CSA Approval ID: 2030668				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	20 A	26 - 12	-
Use group C				
	300 V	20 A	26 - 12	-

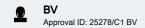
EHC	EAC
	Approval ID: RU C-DE.BL08.B.00511

c 911 us	cULus Recognized
	Approval ID: E60425

Lloyds	LR
Negota	Approval ID: LR2371832TA

ClassNK	NK
	Approval ID: 14ME0912

. 712 us	cULus Recognized
	Approval ID: E60425



ABS
Approval ID: 21-2192245-PDA

DNV Approval ID: TAE000010T			
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Classifications

ECLASS

	ECLASS-11.0	27141151	
	ECLASS-13.0	27250306	
	ECLASS-12.0	27141151	
ETIM			
	ETIM 9.0	EC002021	
LINI	SPSC		

UNSPSC



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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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