1078966

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 3, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · Clear wiring, thanks to lateral conductor entry
- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system
- · The compact design enables wiring in a confined space

Commercial data

Item number	1078966
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE23
Product key	BE2312
Catalog page	Page 88 (C-1-2019)
GTIN	4055626797076
Weight per piece (including packing)	8.38 g
Weight per piece (excluding packing)	7.396 g
Customs tariff number	85369010
Country of origin	CN

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Technical data

Notes

Note	The max. load current must not be exceeded by the total curren of all connected conductors.
oduct properties	
Product type	Multi-conductor terminal block
Product family	PTV
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	3
Number of rows	1
Potentials	1
nsulation characteristics	
Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	3
Nominal cross section	2.5 mm ²
Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² 4 mm ²
Conductor cross section, flexible [AWG]	26 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² 2.5 mm ²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1 mm²
Nominal current	24 A (with 2.5 mm ² conductor connection cross section)
Maximum load current	28 A (with 4 mm ² conductor cross section, rigid)

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Nominal voltage	800 V
Nominal cross section	2.5 mm ²
Connection cross sections directly pluggable	
Conductor cross section rigid	0.5 mm ² 4 mm ²
Conductor cross section, rigid [AWG]	20 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm ² 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm ² 2.5 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	🐵 II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1088747 D-PTV 2,5/4-TWIN
	1083618 DS-PTV 2,5/4
	3024481 ATP-ST 6
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
List of bridges	Plug-in bridge / FBS 2-5 / 3030161
	Plug-in bridge / FBS 3-5 / 3030174
	Plug-in bridge / FBS 4-5 / 3030187
	Plug-in bridge / FBS 5-5 / 3030190
	Plug-in bridge / FBS 10-5 / 3030213
	Plug-in bridge / FBS 20-5 / 3030226
	Plug-in bridge / FBS 50-5 / 3038930
Bridge data	20.5 A / 2.5 mm²
Ex temperature increase	40 K (21,1 A / 2,5 mm²)
Rated voltage	550 V
for bridging with bridge	550 V
- At bridging between non-adjacent terminal blocks	352 V
- At cut-to-length bridging	275 V
- At cut-to-length bridging with cover	275 V
- At cut-to-length bridging with partition plate	550 V
Rated insulation voltage	500 V
output	(Permanent)
x level General	
Rated current	20.5 A (2.5 mm²)
Maximum load current	24.5 A (4 mm²)
Contact resistance	0.8 mΩ
x connection data General	
Nominal cross section	2.5 mm ²
Rated cross section AWG	14
Connection capacity rigid	0.14 mm ² 4 mm ²



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Connection capacity AWG	26 12
Connection capacity flexible	0.14 mm ² 4 mm ²
Connection capacity AWG	26 12

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	60 mm
Depth	45.7 mm
Depth on NS 35/7,5	47.2 mm
Depth on NS 35/15	54.7 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	1
Insulating material	PA
Static insulating material application in cold	-60 °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
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

Electrical tests

Surge voltage test	
Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm ²	0.3 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties

Mechanical data	
Open side panel	Yes

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Mechanical tests

Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed
Test for conductor damage and slackening Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed

Environmental and real-life conditions

Aging				
Temperature cycles	192			
Result	Test passed			
Needle-flame test				
Time of exposure	30 s			
Result	Test passed			
Oscillation/broadband noise				
Specification	DIN EN 50155 (VDE 0115-200):2018-05			
Spectrum	Service life test category 2, bogie-mounted			
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$			
ASD level	6.12 (m/s ²) ² /Hz			
Acceleration	3.12g			
Test duration per axis	5 h			
Test directions	X-, Y- and Z-axis			
Result	Test passed			
Shocks				
Specification	DIN EN 50155 (VDE 0115-200):2018-05			
Pulse shape	Half-sine			
Acceleration	30g			
Shock duration	18 ms			
Number of shocks per direction	3			
Test directions	X-, Y- and Z-axis (pos. and neg.)			
Result	Test passed			

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Ambient conditions	
Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
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 %
tandards and regulations	
Connection in acc. with standard	IEC 60947-7-1
lounting	
Mounting type	NS 35/7,5
	NS 35/15

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Classifications

ECLASS

	ECLASS-11.0	27141120		
	ECLASS-13.0	27250101		
ETIM				
	ETIM 9.0	EC000897		
UNSPSC				
	UNSPSC 21.0	39121400		

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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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