

1078971

https://www.phoenixcontact.com/sg/products/1078971

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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 mm 2 , cross section: 0.14 mm 2 - 4 mm 2 , mounting type: NS 35/7,5, NS 35/15, color: blue

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 compact design enables wiring in a confined space
- · The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system

Commercial data

Item number	1078971
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BE2312
Catalog page	Page 88 (C-1-2019)
GTIN	4055626797274
Weight per piece (including packing)	8.38 g
Weight per piece (excluding packing)	7.409 g
Customs tariff number	85369010
Country of origin	CN



1078971

https://www.phoenixcontact.com/sg/products/1078971

Technical data

Product 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
Insulation 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 mm² 4 mm²
Conductor cross section, flexible [AWG]	26 12 (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
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Nominal current	24 A (with 2.5 mm² conductor connection cross section)
Maximum load current	28 A (with 4 mm² conductor cross section)
Nominal voltage	800 V
Nominal cross section	2.5 mm²

Connection cross sections directly pluggable

Conductor cross section rigid	0.5 mm² 4 mm²
Conductor cross section, rigid [AWG]	20 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm² 2.5 mm²



1078971

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Ex data

atou data (711 E741 E EEX)	
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)

Ex level General

Rated current	20.5 A (2.5 mm²)
Maximum load current	24.5 A (4 mm²)
Contact resistance	$0.8\ m\Omega$

Ex connection data General

Nominal cross section	2.5 mm²
Rated cross section AWG	14
Connection capacity rigid	0.14 mm² 4 mm²
Connection capacity AWG	26 12
Connection capacity flexible	0.14 mm² 4 mm²
Connection capacity AWG	26 12

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	60 mm



1078971

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DIN rail/fixing support

Test force setpoint

Depth	45.7 mm
Depth on NS 35/7,5	47.2 mm
Depth on NS 35/15	54.7 mm
Material specifications	
Color	blue (RAL 5015)
Flammability rating according to UL 94	V0
Insulating material group	ı
	PA
Insulating material	-60 °C
Static insulating material application in cold	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	
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
Surge voltage test Result	Test passed
	Test passed
Result	Test passed Increase in temperature ≤ 45 K
Result Temperature-rise test	
Result Temperature-rise test Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result Temperature-rise test Requirement temperature-rise test Result	Increase in temperature ≤ 45 K Test passed
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm²	Increase in temperature ≤ 45 K Test passed 0.3 kA
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result	Increase in temperature ≤ 45 K Test passed 0.3 kA
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage	Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint	Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result	Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result Mechanical properties	Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result Mechanical properties Mechanical data	Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed 2 kV Test passed
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result Mechanical properties Mechanical data Open side panel	Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed 2 kV Test passed
Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result Mechanical properties Mechanical data Open side panel Mechanical tests	Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed 2 kV Test passed

NS 35



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Result	Test passed
est 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
vironmental and real-life conditions	
nging	
Temperature cycles	192
Result	Test passed
leadle flores took	
leedle-flame test Time of exposure	30 s
Result	Test passed
resuit	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/s²)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
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, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C



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Permissible humidity (storage/transport)	30 % 70 %	
Standards and regulations		
Connection in acc. with standard	IEC 60947-7-1	
Mounting		
Mounting type	NS 35/7,5	
	NS 35/15	



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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/1078971

CSA Approval ID: 158887				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	20 A	26 - 12	-
Use group C				
	600 V	20 A	26 - 12	-

CB scheme	IECEE CB Scheme Approval ID: DE1-67139	,			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		800 V	24 A	-	0.2 - 4

EHC	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00644

e 911 us	cULus Recognized
C That US	Approval ID: E60425

: 712 :	cULus Recognized
C TABUS	Approval ID: E60425

VDE approval of drawings Approval ID: 40056318				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	800 V	24 A	-	0.2 - 4

[(IEĈEx	IECEx Approval ID: IECExPTB20.0037U

] [(IEĈE×	IECEx
*	Approval ID: IECExPTB20.0037U

Æ.	ATEX
(LX)	Approval ID: PTR20ATEX1016LL



1078971

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CCC

Approval ID: 2021122313114374



UKCA-EX

Approval ID: CSAE 22UKEX1099U



1078971

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Classifications

ECLASS

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
ET	TIM	
	ETIM 9.0	EC000897
UN	ISPSC	

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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