

1079059

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Knife-disconnect terminal block, nom. voltage: 400 V, nominal current: 20 A, connection method: Push-in connection, Rated cross section: $2.5~\text{mm}^2$, cross section: $0.14~\text{mm}^2$ - $4~\text{mm}^2$, mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

- The secure end position of the lever-type disconnect knife ensures that the switching states of the knife disconnect terminal blocks are permanently secured and are always clearly recognizable
- · The circuits can be opened easily with a standard screwdriver
- · Clear wiring, thanks to lateral conductor entry
- · 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
- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

Commercial data

Item number	1079059
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE2331
Product key	BE2331
Catalog page	Page 89 (C-1-2019)
GTIN	4055626796925
Weight per piece (including packing)	6.98 g
Weight per piece (excluding packing)	6.27 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Notes

Nata	The association and account of a simple plantage weit as at heat he
Note	The maximum load current of a single clamping unit must not be exceeded.
roduct properties	
Product type	Disconnect terminal block
Number of connections	2
Number of rows	1
Potentials	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
lectrical properties	
Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W
onnection data	
Number of connections per level	2
Nominal cross section	2.5 mm ²
Level 1 above 1 below 1	
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 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
Conductor cross-section rexible (remain without plastic siceve)	
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
	0.14 mm ² 2.5 mm ² 0.5 mm ² 1 mm ²
Flexible conductor cross section (ferrule with plastic sleeve) Conductor cross-section flexible (2 conductors with the same	

Level 1 above 1 below 1 Connection cross sections directly pluggable

Maximum load current

Nominal voltage

Nominal cross section

20 A (with 4 mm² conductor cross section, rigid)

400 V

2.5 mm²



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Conductor cross section rigid	1 mm² 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm²

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	50.8 mm
Depth	35.3 mm
Depth on NS 35/7,5	36.8 mm
Depth on NS 35/15	44.3 mm

Material specifications

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))	125 °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)	27,5 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

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 mm²	0.3 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties



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Mechanical data	
Open side panel	Yes
echanical tests	
Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
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
Aging	
Aging	
Temperature cycles	192
	192 Test passed
Temperature cycles	
Temperature cycles Result	
Temperature cycles Result Needle-flame test	Test passed
Temperature cycles Result Needle-flame test Time of exposure	Test passed 30 s
Temperature cycles Result Needle-flame test Time of exposure Result	Test passed 30 s
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise	Test passed 30 s Test passed
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ 6.12 (m/s²)²/Hz
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted $f_1 = 5$ Hz to $f_2 = 250$ Hz 6.12 (m/s²)²/Hz 3.12g 5 h
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis Test passed
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Pulse shape	Test passed 30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis Test passed Half-sine
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Pulse shape Acceleration	30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis Test passed Half-sine 30g
Temperature cycles Result Needle-flame test Time of exposure Result Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Pulse shape Acceleration Shock duration	30 s Test passed DIN EN 50155 (VDE 0115-200):2018-05 Long life test category 2, bogie-mounted f ₁ = 5 Hz to f ₂ = 250 Hz 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis Test passed Half-sine 30g 18 ms



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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, not exceeding 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 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1

Mounting

Mounting type	NS 35/7,5
	NS 35/15

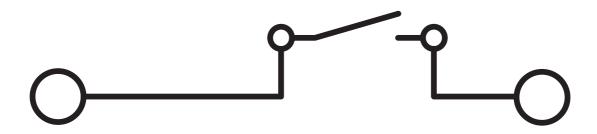


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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1079059

CSA Approval ID: 158887				
	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 D				
	300 V	10 A	26 - 12	-

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

e 91 1 us	cULus Recognized
G TABUS	Approval ID: E60425

e 911 us	cULus Recognized
C 7742 US	Approval ID: E60425



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Classifications

ECLASS

	ECLASS-11.0	27141126		
	ECLASS-12.0	27141126		
	ECLASS-13.0	27250108		
ETIM				
	ETIM 9.0	EC000902		
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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