

PT 4-WE/39 - Panel feed-through terminal block



3044944

<https://www.phoenixcontact.com/us/products/3044944>

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Panel feed-through terminal block, nom. voltage: 500 V, nominal current: 24 A, number of connections: 78, number of positions: 39, connection method: Push-in connection, Rated cross section: 4 mm², cross section: 0.14 mm² - 4 mm², mounting type: Panel mounting, color: gray

Your advantages

- Easy grouping with engagement pin versions
- CLIPLINE complete accessories for easy bridging, testing, and marking
- Highly flexible, thanks to alignable single terminal blocks
- Easy connection of the conductors, thanks to fast Push-in spring connection
- Automatic compensation of the panel thickness via the snap principle integrated in the insulation housing

Commercial data

Item number	3044944
Packing unit	5 pc
Minimum order quantity	5 pc
Product key	BE6112
GTIN	4055626461779
Weight per piece (including packing)	231.09 g
Weight per piece (excluding packing)	231.09 g
Country of origin	RU

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Technical data

Notes

Assembly note	Minimum distance to other conductive surfaces: min 5 mm
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Product properties

Product type	Feed-through terminal block
Product family	PT 4-WE
Number of positions	39
Pitch	5.2 mm
Number of connections	78
Number of rows	1
Potentials	39

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Maximum power dissipation for nominal condition	1.02 W
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Connection data

Nominal cross section	4 mm ²
Rated cross section AWG	14
Connection method	Push-in connection
Note	Derating curve on request.
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.14 mm ² ... 4 mm ²
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
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 0.5 mm ²
Nominal current	24 A
Maximum load current	30 A (with 6 mm ² conductor cross-section, rigid)
Nominal voltage	500 V
Nominal cross section	4 mm ²

Connection cross sections directly pluggable

Conductor cross-section rigid	0.34 mm ² ... 4 mm ²
Conductor cross-section, rigid [AWG]	24 ... 12 (converted acc. to IEC)

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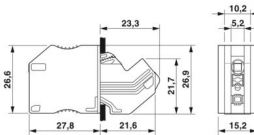


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Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm ² ... 2.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.34 mm ² ... 2.5 mm ²

Dimensions

Dimensional drawing	
Width	205.9 mm
Height	26.6 mm
Pitch	5.2 mm
Plate thickness	1 mm ... 2.5 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
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

Test voltage setpoint	7.3 kV
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	0.15 kA
Short-time withstand current 4 mm ²	0.15 kA
Short-time withstand current 2.5 mm ²	0.3 kA
Short-time withstand current 4 mm ²	0.3 kA
Short-time withstand current 2.5 mm ²	0.5 kA

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Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data	
Open side panel	No

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	
Conductor cross-section/weight	0.14 mm ² / 0.2 kg
	2.5 mm ² / 0.7 kg
	4 mm ² / 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):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.964 (m/s ²) ² /Hz
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks	
Specification	DIN EN 50155 (VDE 0115-200):2008-03

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Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

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 (storage/transport)	30 % ... 70 %

Standards and regulations

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

Mounting type	Panel mounting
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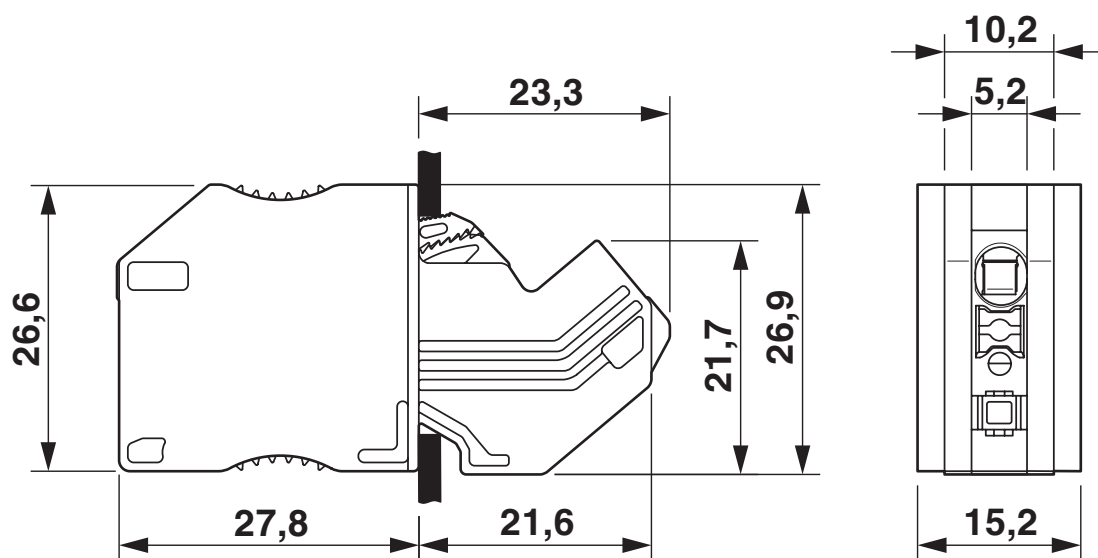
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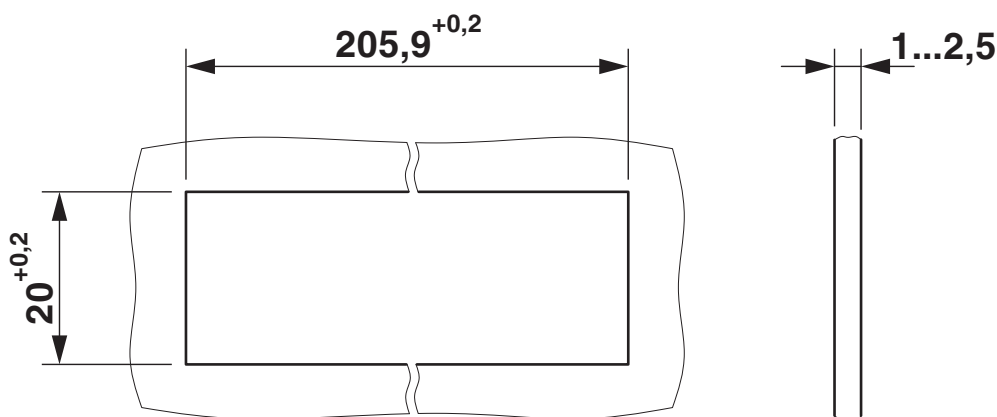


Drawings

Dimensional drawing



Dimensional drawing

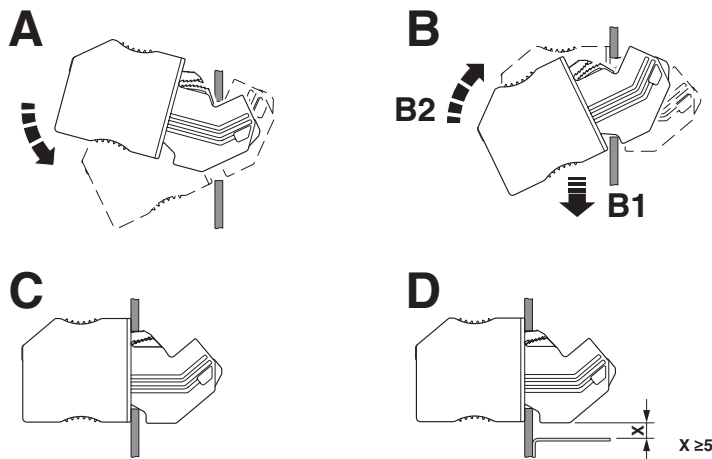


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Schematic diagram



Assembly drawing

Circuit diagram



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Classifications

ETIM

ETIM 8.0	EC000897
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com