PWO 4-POT-SL/S - Panel feed-through terminal block

3059728

https://www.phoenixcontact.com/us/products/3059728

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Panel feed-through terminal block, connection method: Push-in spring connection, Solder connection, number of positions: 1, load current: 32 A, cross section: 0.2 mm^2 - 4 mm^2, connection direction of the conductor to plug-in direction: 45 °, width: 8.1 mm, color: gray

Your advantages

- Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- Tool-free snap-in principle enables easy mounting on the device panel
- Automatic panel thickness compensation enables universal use
- Reliable seal even with low-viscosity molding compounds

Commercial data

Item number	3059728
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA28
Product key	AA1AED
GTIN	4046356520881
Weight per piece (including packing)	9.48 g
Weight per piece (excluding packing)	7.526 g
Customs tariff number	85369010
Country of origin	CN

Technical data

Product properties

Product type	Panel feed-through terminal block
Product family	PWO 4-POT-SL
Number of positions	1
Pitch	8.1 mm
Number of connections	2
Number of rows	1
Number of potentials	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Fitting of components

Partial assembly	No

Electrical properties

Properties

Nominal current I_N	32 A
Nominal voltage U_N	800 V
Rated voltage (III/3)	800 V
Rated surge voltage (III/3)	8 kV

Connection data

Connection technology

Connector system	PW 4
Nominal cross section	4 mm²

Conductor connection exterior

Connection method	Push-in spring connection
Connection direction of the conductor to plug-in direction	45 °
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Conductor cross-section flexible	0.2 mm² ... 6 mm²
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm² ... 6 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 1 mm²
Internal cylindrical gage	A4
Stripping length	10 mm

Conductor connection interior

Connection method	Solder connection
Connection direction of the conductor to plug-in direction	0 °

Mounting

Panel thickness	1 mm...4 mm

Attachment to feed-through panel

Tightening torque	0.5 Nm ... 0.6 Nm (Mounting screw torque)

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	tin-plated

Material data - housing

Color (Housing)	gray (7042)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Material data – actuating element

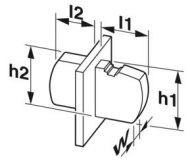
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Notes

Safety note

Safety note	• Only electrically qualified personnel may install and operate the product. To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering.
	• Observe the technical data provided here and refer to the documents listed under “Downloads”. The download area contains important information, such as installation notes, technical drawings, and 3D data.
	• To maintain the nominal voltage, cast the terminals on the inside.

Dimensions

Dimensional drawing	
Pitch	8.1 mm
Width [w]	8.1 mm

External dimensions

Height [h1]	30 mm
Length [l1]	30.5 mm

Internal dimensions

Height [h2]	27 mm
Length [l2]	15 mm

Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60947-7-1:2009-04
Result	Test passed

Pull-out test

Specification	IEC 60947-7-1:2009-04
Conductor cross-section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	4 mm² / solid / > 60 N
	4 mm² / flexible / > 60 N

Electrical tests

Temperature-rise test

Specification	IEC 60512-5-1:2002-02
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Short-time withstand current

Specification	IEC 60947-7-1:2009-04

Air clearances and creepage distances | 1. Insulation coordination

Application	Metal wall 1.0 mm ... 4.0 mm
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	800 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	10 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 Hz ... 150 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz ... 60.1 Hz)
Acceleration	5g (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Glow-wire test

Specification	IEC 60695-2-11:2000-10
Temperature	960 °C
Time of exposure	30 s

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)

Ambient conditions

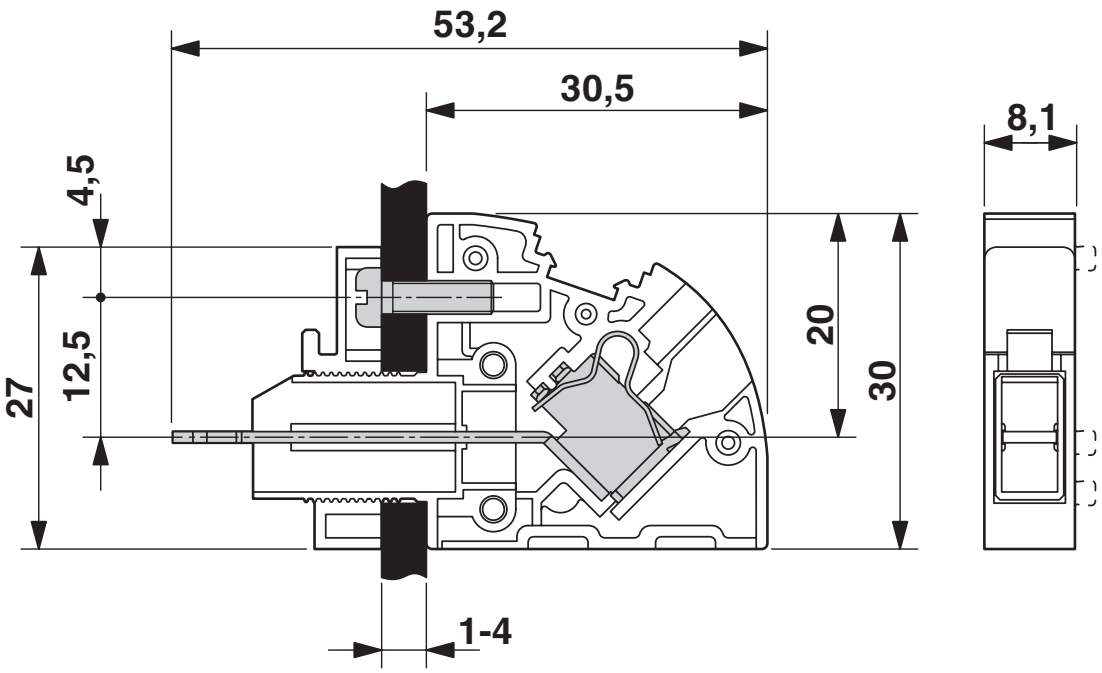
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Packaging specifications

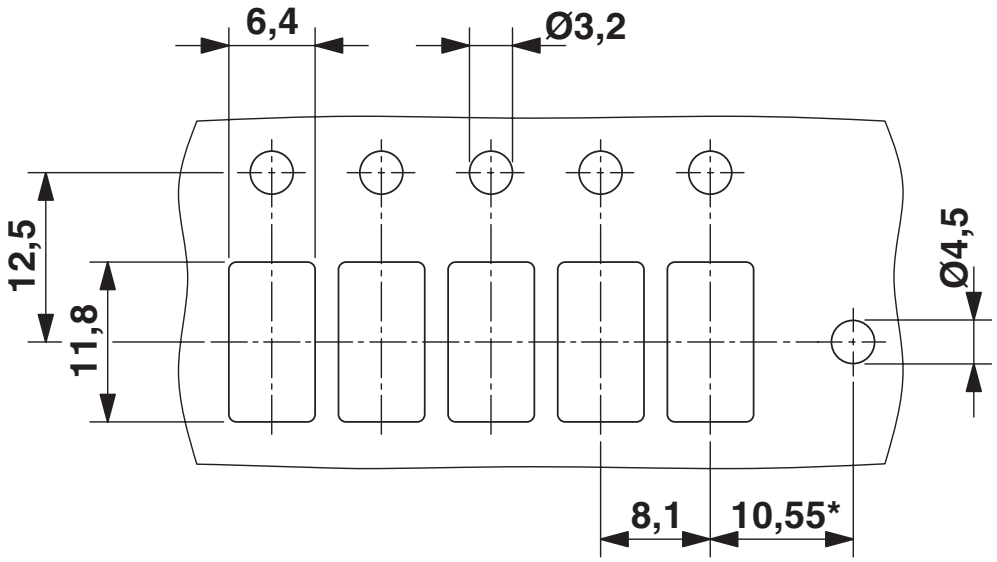
Type of packaging	packed in cardboard

Drawings

Dimensional drawing

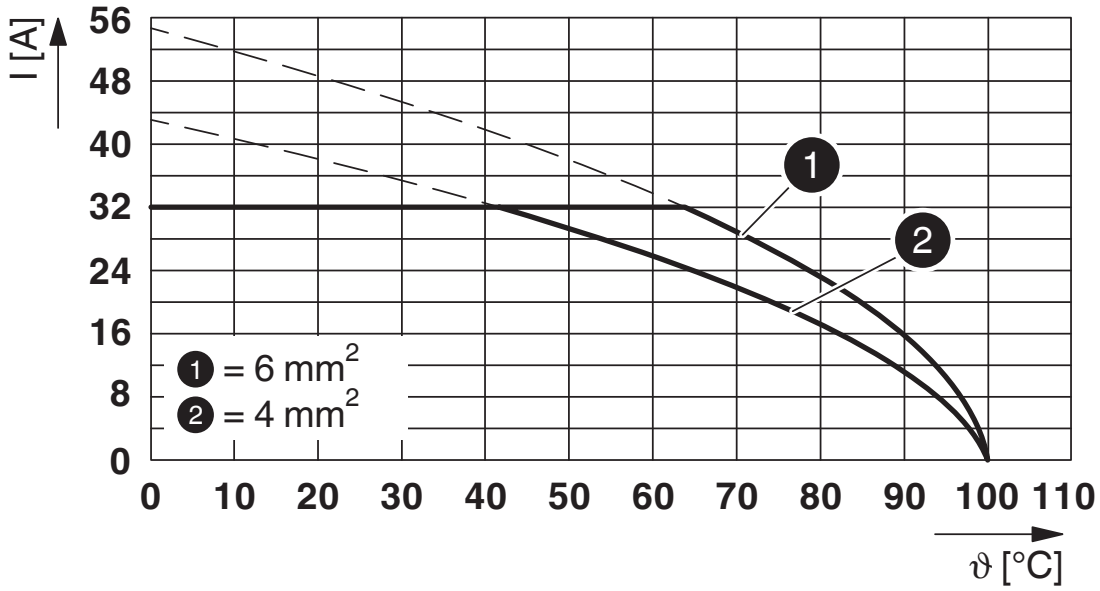


Dimensional drawing



*Only when using the PW 4-F flange plate

Diagram



Type: PW(O) 4-POT-SL(/S)

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3059728

CSA
Approval ID: 2618381-158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	30 A	24 - 10	-
D				
	300 V	10 A	24 - 10	-

UL Recognized
Approval ID: E60425-20100423

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	30 A	24 - 10	-
C				
	300 V	30 A	24 - 10	-
D				
	600 V	5 A	24 - 10	-

Classifications

ECLASS

ECLASS-13.0	27141134
ECLASS-15.0	27141134

ETIM

ETIM 10.0	EC001283

UNSPSC

UNSPSC 21.0	39121400

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%

EF3.1 Climate Change

CO2e kg	0.135 kg CO2e

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