

G 5/ 2-EX - Device terminal block



1089161
<https://www.phoenixcontact.com/us/products/1089161>

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Device terminal block, nom. voltage: 500 V, nominal current: 32 A, number of connections: 4, number of positions: 2, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.2 mm² - 4 mm², mounting type: direct screw connection, color: gray

Your advantages

- Touch-proof shock protection

Commercial data

Item number	1089161
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1265
GTIN	4055626892825
Weight per piece (including packing)	15.16 g
Weight per piece (excluding packing)	15 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Feed-through terminal block
Product family	G
Number of positions	2
Number of connections	4
Number of rows	1
Potentials	2

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Number of connections per level	4
Nominal cross section	4 mm ²
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Conductor cross section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 4 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 1 mm ²
Nominal current	32 A
Maximum load current	32 A (with 4 mm ² conductor cross section)
Nominal voltage	500 V
Nominal cross section	4 mm ²

Ex data

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Rated data (ATEX/IECEX)

Identification	Ex II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1205053 SZS 0,6X3,5
Ex temperature increase	40 K (30.7 A / 4 mm²)
Rated voltage	352 V
Rated insulation voltage	320 V
output	(Permanent)

Ex level General

Rated current	30 A
Maximum load current	30 A
Contact resistance	0.25 mΩ

Ex connection data General

Torque range	0.6 Nm ... 0.8 Nm
Nominal cross section	4 mm²
Rated cross section AWG	12
Connection capacity rigid	0.2 mm² ... 4 mm²
Connection capacity AWG	24 ... 12
Connection capacity flexible	0.2 mm² ... 4 mm²
Connection capacity AWG	24 ... 24
2 conductors with same cross section, solid	0.2 mm² ... 1.5 mm²
2 conductors with the same cross-section AWG rigid	24 ... 16
2 conductors with same cross section, stranded	0.2 mm² ... 1.5 mm²
2 conductors with the same cross-section AWG flexible	24 ... 16

Dimensions

Width	20 mm
Height	22 mm
Depth	24 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

Mechanical properties

General

Terminal block mounting	When attaching the product to the mounting surface, please ensure that the housing is not damaged when tightening the center screw
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Mechanical data

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Open side panel	No
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Environmental and real-life conditions

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 %

Standards and regulations

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

Mounting type	direct screw connection
Terminal block mounting	When attaching the product to the mounting surface, please ensure that the housing is not damaged when tightening the center screw

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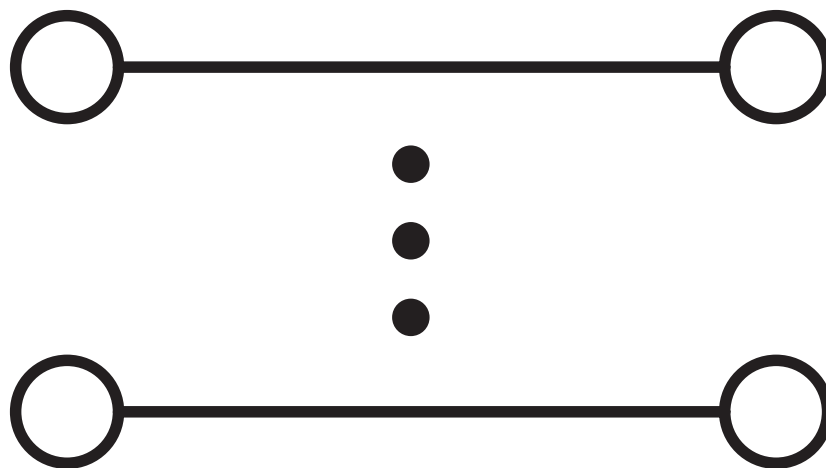


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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1089161>

<div> IECEx Approval ID: IECExPTB06.0043U</div>				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	352 V	30 A	-	0.2 - 4
Multi-conductor connection	352 V	30 A	-	0.2 - 1.5

<div> ATEX Approval ID: PTB06ATEX1034U</div>				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Multi-conductor connection	352 V	30 A	-	0.2 - 1.5
Type examination certificate	352 V	30 A	-	0.2 - 4

<div> CCC Approval ID: 2020322313000624</div>				
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Classifications

ECLASS

ECLASS-11.0	27141106
ECLASS-12.0	27141106
ECLASS-13.0	27141106

ETIM

ETIM 9.0	EC001284
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

BN WH - Marker for terminal blocks

1401404

<https://www.phoenixcontact.com/us/products/1401404>



Marker for terminal blocks, Stud, white, unlabeled, can be labeled with: Marker pen, mounting type: plug in, for terminal block width: 4.2 mm, lettering field size: 4 x 4 mm

WS-G5/2 - Warning label

2720029

<https://www.phoenixcontact.com/us/products/2720029>



Warning plate, for the device terminal block G 5, completely covers the surface of the terminal block, 2-pos.

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EA-G 5/ 2 SONDERBEDRUCKUNG - Cover profile

1301407

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Single cover for the G 5/2 terminal block, printed according to customer requirements



SZS 0,6X3,5 - Screwdriver

1205053

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Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip



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