VIOK 1,5-3D/PE - Motor connection terminal block

2718206

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Motor connection terminal block, nom. voltage: 400 V, nominal current: 24 A, connection method: Screw connection, 2nd, 3rd and 4th level, Rated cross section: 2.5 mm^2, cross section: 0.2 mm^2 - 4 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- This terminal block has 2 feed-through levels and 2 busbar levels
- It is used for programmable or self-monitoring initiators which are additionally controlled via the second feed-through level

Commercial data

Item number	2718206
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1218
GTIN	4017918062279
Weight per piece (including packing)	27.21 g
Weight per piece (excluding packing)	27.15 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Product properties

Product type	Motor terminal block
Number of connections	7
Number of rows	4
Potentials	4

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	2.5 mm²

2nd, 3rd and 4th level

Connection method	Screw connection
Screw thread	M3
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	0.5 ... 0.6 Nm
Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section, flexible [AWG]	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 2.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 2.5 mm²
Cross-section with insertion bridge, rigid	4 mm²
Cross-section with insertion bridge, flexible	2.5 mm²
Nominal cross section	2.5 mm²
Nominal current	24 A
Maximum load current	26 A (with a 2.5 mm² conductor cross-section)
Nominal voltage	400 V (when using EB insertion bridges, the nominal voltage is reduced to 250 V.)

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔx II 2 G Ex eb IIC Gb
Operating temperature range	-50 °C ... 105 °C
Ex-certified accessories	1205053 SZS 0,6X3,5
	1201442 E/UK
List of bridges	Insertion bridge / EB 2- DIK RD / 2716693
	Insertion bridge / EB 3- DIK RD / 2716745
	Insertion bridge / EB 4- DIK RD / 2716758
	Insertion bridge / EB 5- DIK RD / 2716761
	Insertion bridge / EB 5- DIK BU / 2716677
	Insertion bridge / EB 10- DIK RD / 2716774
	Insertion bridge / EB 10- DIK BU / 2716680
	Insertion bridge / EB 10- DIK GY / 2715937
Bridge data	16 A / 2.5 mm² ΔT 45 K
Ex temperature increase	37 K (20 A / 2.5 mm²)
at bridging with insertion bridge	176 V
Rated insulation voltage	160 V
output	(Permanent)

Ex level General

Rated voltage	176 V
Rated current	20 A (ΔT 45 K)
Maximum load current	25 A (ΔT 45 K)

Ex connection data General

Torque range	0.5 Nm ... 0.6 Nm
Nominal cross section	2.5 mm²
Rated cross section AWG	14
Connection capacity rigid	0.2 mm² ... 4 mm²
Connection capacity AWG	24 ... 12
Connection capacity flexible	0.2 mm² ... 2.5 mm²
Connection capacity AWG	24 ... 14
2 conductors with same cross section, solid	0.2 mm² ... 1 mm²
2 conductors with the same cross-section AWG rigid	24 ... 17
2 conductors with same cross section, stranded	0.2 mm² ... 1 mm²
2 conductors with the same cross-section AWG flexible	24 ... 17
output	(Permanent)

Ex level Level 1

Contact resistance	0.8 mΩ
output	(Permanent)

Ex level Level 2

Contact resistance	0.6 mΩ
output	(Permanent)

Dimensions

Width	6.2 mm
Height	82.5 mm
Depth on NS 35/7,5	70 mm
Depth on NS 35/15	77.5 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-40 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

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 mm²	0.3 kA
Short-time withstand current 4 mm²	0.48 kA
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

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
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
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

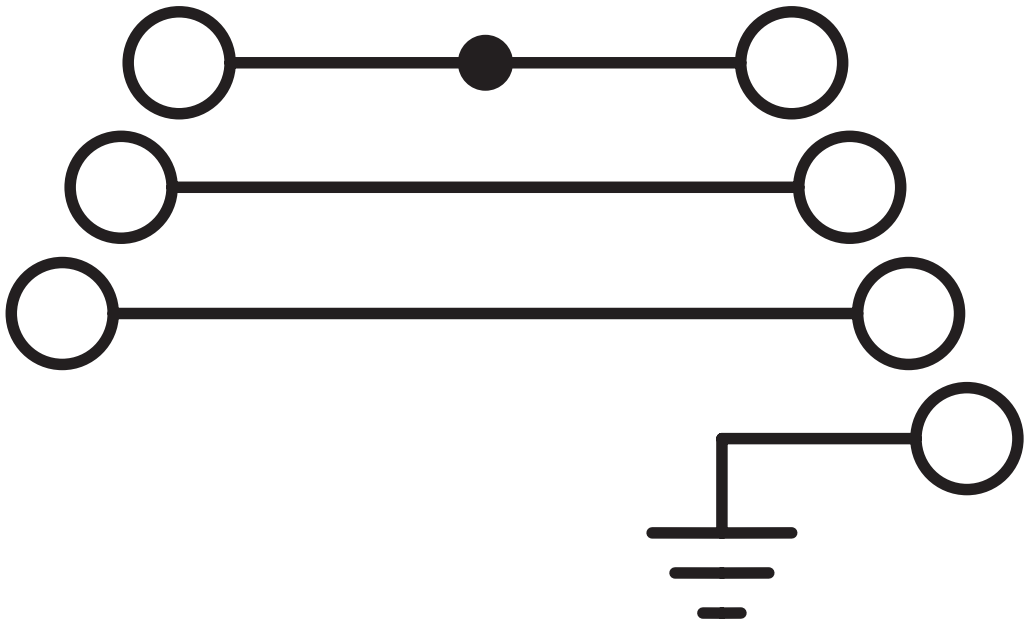
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2

Mounting

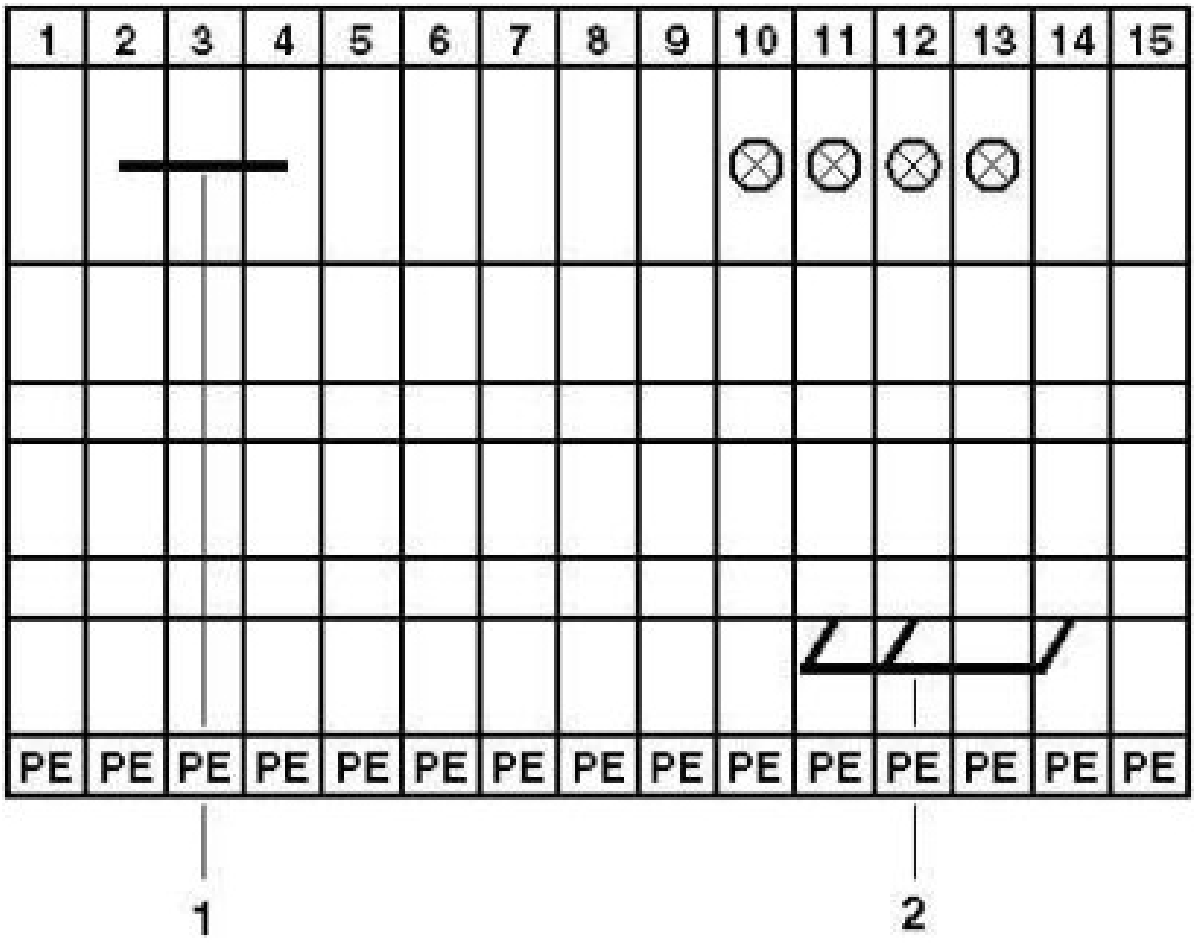
Mounting type	NS 35/7,5
	NS 35/15

Drawings

Circuit diagram



Circuit diagram



1 = insertion bridge
2 = fixed bridge

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2718206

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	300 V	15 A	28 - 14	-

EAC
Approval ID: KZ7500651131219505

ATEX
Approval ID: SEV23ATEX0682U

Classifications

ECLASS

ECLASS-13.0	27250112
ECLASS-15.0	27250112

ETIM

ETIM 10.0	EC000900

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%

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