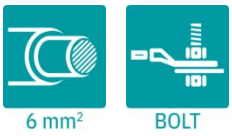
OTTA 6-PE - Protective conductor terminal block

0790527

https://www.phoenixcontact.com/us/products/0790527

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Protective conductor terminal block, number of connections: 2, connection method: Bolt connection, Rated cross section: 6 mm^2, mounting method: M3, mounting type: NS 35/7,5, NS 35/15, NS 32, color: green-yellow

Commercial data

Item number	0790527
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE45
Product key	BE4513
GTIN	4017918005634
Weight per piece (including packing)	33.96 g
Weight per piece (excluding packing)	34.39 g
Customs tariff number	85369010
Country of origin	IN

Technical data

Product properties

Product type	Ground terminal block
Product family	OTTA
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	6 mm²
Connection method	Bolt connection
Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Connection in acc. with standard	IEC 60947-7-2
Nominal cross section	6 mm²

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	0.1 mm² ... 6 mm²
Cross section range AWG	24 ... 10 (converted acc. to IEC)
Hole diameter	4.3 mm
Width	9.6 mm
Bolt diameter	4 mm
Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Identification color of ring cable lugs : red	1.5 mm²
Identification color of ring cable lugs : blue	2.5 mm²
Identification color of ring cable lugs : yellow	6 mm²
Connection in acc. with standard	DIN 46237:1970-07
Cross section	0.5 mm² ... 2.5 mm²
Cross section range AWG	20 ... 14 (converted acc. to IEC)
Hole diameter	4.3 mm
Width	9.6 mm
Bolt diameter	4 mm

Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm

Dimensions

Width	12 mm
End cover width	1.5 mm
Height	43.5 mm
Depth on NS 32	57 mm
Depth on NS 35/7,5	52 mm
Depth on NS 35/15	59.5 mm

Material specifications

Color	green-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
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

Mechanical properties

General

Terminal block mounting	0.6 Nm ... 0.8 Nm (M3)

Mechanical data

Open side panel	No

Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Long life test category 2, bogie-mounted
Frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2/Hz$
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

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 (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

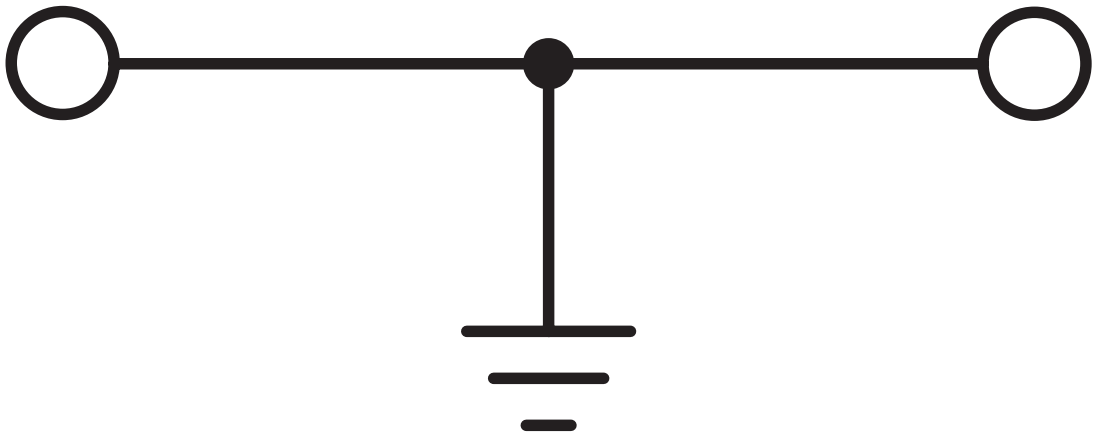
Connection in acc. with standard	IEC 60947-7-2

Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32
Terminal block mounting	0.6 Nm ... 0.8 Nm (M3)

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0790527

CSA
Approval ID: 158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	-	-	20 - 10	-
C				
	-	-	20 - 10	-
D				
	-	-	20 - 10	-

IECEE CB Scheme
Approval ID: DE1-63948

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	-	-	-	0.2 - 6

EAC
Approval ID: RU C-DE.BL08.B.00540

VDE Zeichengenehmigung
Approval ID: 40052333

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	-	-	-	0.2 - 6

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
Only flexible conductors	-	-	20 - 10	-
C				
Only flexible conductors	-	-	20 - 10	-

EAC
Approval ID: KZ7500651131219505

Classifications

ECLASS

ECLASS-13.0	27250103
ECLASS-15.0	27250103

ETIM

ETIM 10.0	EC000901

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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