

OTTA 6-PE - Ground terminal



0790527

<https://www.phoenixcontact.com/sg/products/0790527>

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Ground terminal, nom. voltage: 800 V, nominal current: 41 A, number of connections: 2, connection method: Bolt connection, Rated cross section: 6 mm², 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	0102*
Product key	BE4513
Catalog page	Page 565 (C-1-2019)
GTIN	4017918005634
Weight per piece (including packing)	34.39 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
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
Maximum power dissipation for nominal condition	0 W

Connection data

Number of connections per level	2
Nominal cross section	6 mm ²
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 current	41 A
Maximum load current	41 A (with 6 mm ² conductor cross section)
Nominal voltage	800 V (the nominal voltage applies to insulated cable lugs)
Nominal cross section	6 mm ²

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	0.1 mm ² ... 6 mm ²
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 mm ²
Identification color of ring cable lugs : blue	2.5 mm ²
Identification color of ring cable lugs : yellow	6 mm ²
Connection in acc. with standard	DIN 46237:1970-07
Cross section	0.5 mm ² ... 2.5 mm ²
Cross section range AWG	20 ... 14 (converted acc. to IEC)
Hole diameter	4.3 mm
Width	9.6 mm

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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
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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)	28 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

Mechanical properties

General

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

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, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C

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Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

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



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Approvals

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CSA Approval ID: 158887				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	-	-	20 - 10	-
Use group C	-	-	20 - 10	-
Use group D	-	-	20 - 10	-

CB IECEE CB Scheme Approval ID: DE1-63948				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	-	0.2 - 6

EAC Approval ID: RU C-DE.BL08.B.00540				
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LR Approval ID: LR2041789TA-02				
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VDE Zeichengenehmigung Approval ID: 40052333				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	-	-	-	0.2 - 6

cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
Only flexible conductors	-	-	20 - 10	-
Use group C				
Only flexible conductors	-	-	20 - 10	-

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EAC

Approval ID: EACKZ 08593

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250103

ETIM

ETIM 9.0	EC000901
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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
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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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