

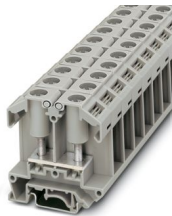
OTTA 25-M5 - Feed-through terminal block



0790488

<https://www.phoenixcontact.com/gb/products/0790488>

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Universal terminal block with bolt connection, cross section: 0.1 - 25 mm², width: 18 mm, color: gray

Commercial data

Item number	0790488
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	BE4513
Product key	BE4513
Catalog page	Page 565 (C-1-2019)
GTIN	4017918005597
Weight per piece (including packing)	54.242 g
Weight per piece (excluding packing)	54.242 g
Customs tariff number	85369010
Country of origin	IN

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Technical data

Product properties

Product type	Bolt connection 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
Maximum power dissipation for nominal condition	3.26 W

Connection data

Number of connections per level	2
Nominal cross section	25 mm ²

1 level

Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Connection in acc. with standard	IEC 60947-7-1
Nominal current	101 A
Maximum load current	101 A (with 25 mm ² conductor cross section)
Nominal voltage	800 V (the nominal voltage applies to insulated cable lugs)
Nominal cross section	25 mm ²

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	0.1 mm ² ... 25 mm ²
Cross section range AWG	16 ... 4 (converted acc. to IEC)
Hole diameter	5.3 mm
Width	16 mm
Bolt diameter	5 mm
Screw thread	M5
Tightening torque	2.5 ... 3 Nm
Connection in acc. with standard	DIN 46237:1970-07
Cross section	1 mm ² ... 6 mm ²
Cross section range AWG	(converted acc. to IEC)
Hole diameter	5.3 mm
Width	16 mm
Bolt diameter	5 mm

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Screw thread	M5
Tightening torque	2.5 ... 3 Nm

Dimensions

Width	18 mm
End cover width	2 mm
Height	60 mm
Depth on NS 32	69.5 mm
Depth on NS 35/7,5	64.5 mm
Depth on NS 35/15	72 mm

Material specifications

Color	gray
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

Electrical tests

Surge voltage test

Result	Test passed
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Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Test force setpoint	10 N
Result	Test passed

Environmental and real-life conditions

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
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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
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Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32

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Drawings

Circuit diagram



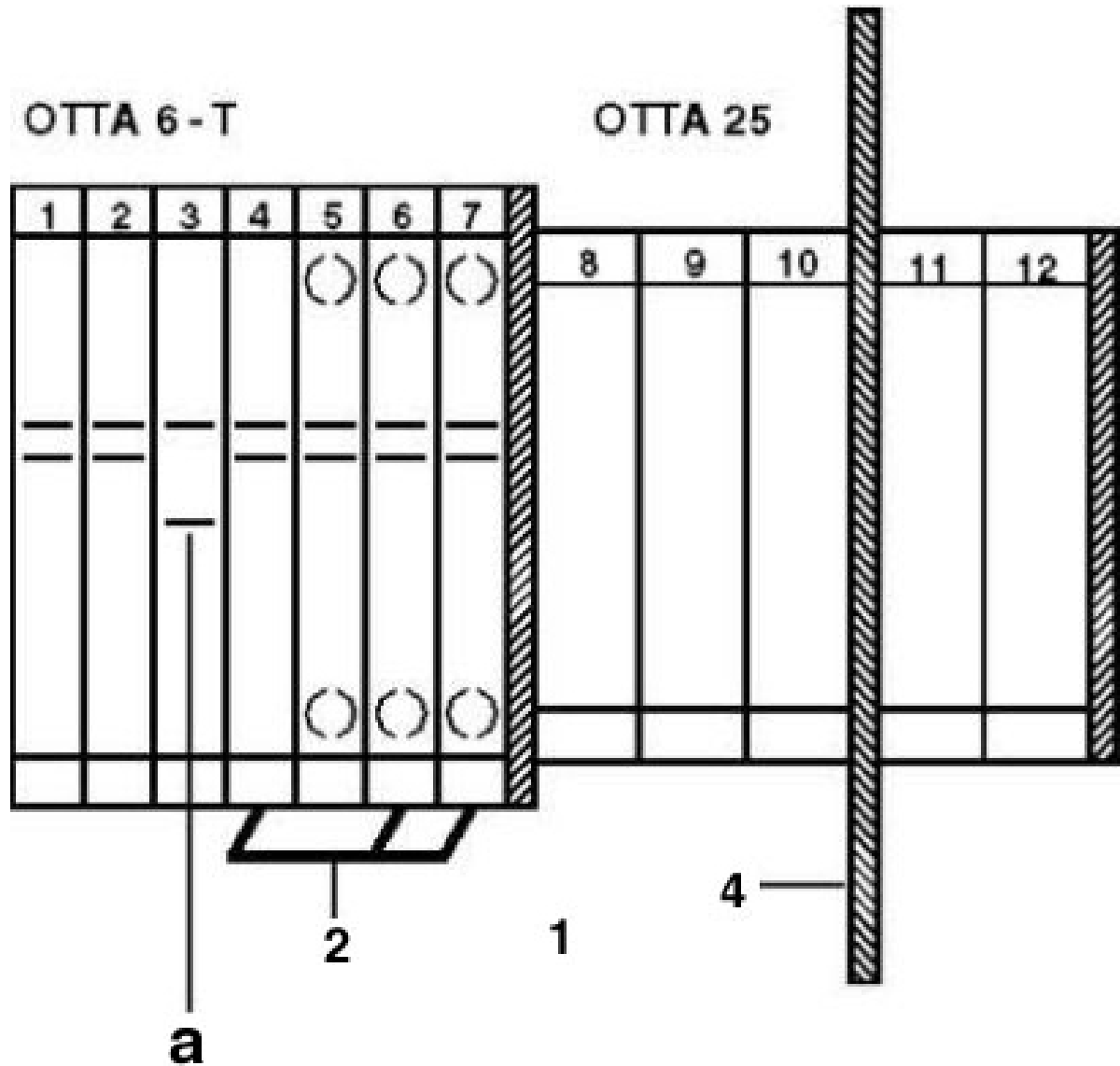
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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/0790488>

DNV

Approval ID: TAE00001CT



CSA

Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	100 A	18 - 4	-



UL Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	600 V	115 A	-	-
Use group C				
	600 V	115 A	-	-



EAC

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



LR

Approval ID: LR2041789TA-02

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
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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
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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