

# Feed-through terminal block - OTTA 25 M6 PH3 - 0713122

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Universal terminal with bolt connection, cross-point head screw, cross section: 1 mm<sup>2</sup> ... 25 mm<sup>2</sup>, width: 18 mm, color: gray

RoHS

## Key Commercial Data

Packing unit	50 STK
GTIN	
GTIN	4046356013338

## Technical data

### General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	25 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	3.26 W
Maximum load current	101 A (with 25 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	101 A
Nominal voltage U <sub>N</sub>	800 V (the nominal voltage applies to insulated cable lugs)
Open side panel	Yes
Shock protection test specification	IEC 60529:2001-02

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## Technical data

### General

Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of tight fit on support	Test passed
Tight fit on carrier	NS 32/NS 35
Setpoint	10 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	25 mm <sup>2</sup>
Short-time current	3 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

### Dimensions

Width	18 mm
End cover width	2 mm
Length	60 mm
Height NS 35/7,5	64.5 mm

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## Technical data

### Dimensions

Height NS 35/15	72 mm
Height NS 32	69.5 mm

### Connection data

Note	Connection bolts
Connection method	Bolt connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section flexible min.	1.5 mm <sup>2</sup>
Conductor cross section flexible max.	25 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	16
Max. AWG conductor cross section, flexible	4
Cable lug connection according to standard	DIN 46234
Min. cross section for cable lug connection	1.5 mm <sup>2</sup>
Max. cross section for cable lug connection	25 mm <sup>2</sup>
Hole diameter, min.	6.5 mm
Cable lug width, max.	16 mm
Bolt diameter	6 mm
Cable lug connection according to standard	DIN 46237
Min. cross section for cable lug connection	2.5 mm <sup>2</sup>
Max. cross section for cable lug connection	6 mm <sup>2</sup>
Hole diameter, min.	6.5 mm
Cable lug width, max.	16 mm
Bolt diameter	6 mm
Screw thread	M6
Tightening torque, min	3.2 Nm
Tightening torque max	3.7 Nm

### Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

# Feed-through terminal block - OTTA 25 M6 PH3 - 0713122

Circuit diagram



## Approvals

Approvals

Approvals

CSA / UL Recognized / EAC / DNV GL

Ex Approvals

## Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	13631
Nominal voltage UN		600 V	
Nominal current IN		100 A	
mm <sup>2</sup> /AWG/kcmil		18-4	

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
Nominal voltage UN		600 V	
Nominal current IN		115 A	

EAC		EAC-Zulassung
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DNV GL	<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	TAE00001CT
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