

## Component terminal block - UTTB 2,5-2DIO/O-UL/UR-UL - 3046676

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Component terminal block, with integrated diode, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, Connection type: Screw connection, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Product Features

- Design width of just 5.2 mm



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	16.7 g
Custom tariff number	85369010
Country of origin	Poland

### Technical data

#### General

Note	The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5 A.
Number of levels	2
Number of connections	4
Nominal cross section	2.5 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Nominal current I <sub>N</sub>	24 A
Maximum load current	28 A (with 4 mm <sup>2</sup> conductor cross section)

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### Technical data

#### General

Nominal voltage $U_N$	500 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	7.3 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.14 mm <sup>2</sup> / 0.2 kg
	2.5 mm <sup>2</sup> / 0.7 kg
	4 mm <sup>2</sup> / 0.9 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.14 mm <sup>2</sup>
Tractive force setpoint	10 N
Conductor cross section tensile test	2.5 mm <sup>2</sup>
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm <sup>2</sup>
Tractive force setpoint	60 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Short circuit stability result	Test passed
Conductor cross section short circuit testing	2.5 mm <sup>2</sup>
Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm <sup>2</sup>
Short-time current	0.48 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, body mounted

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Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.02 $\text{g}^2/\text{Hz}$
Acceleration	0,8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	120 °C

#### Dimensions

Width	5.2 mm
Length	69.9 mm
Height NS 35/7,5	65 mm
Height NS 35/15	72.5 mm

#### Connection data

Conductor cross section solid min.	0.14 $\text{mm}^2$
Conductor cross section solid max.	4 $\text{mm}^2$
Conductor cross section flexible min.	0.14 $\text{mm}^2$
Conductor cross section flexible max.	4 $\text{mm}^2$
Conductor cross section AWG min.	26
Conductor cross section AWG max.	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 $\text{mm}^2$
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 $\text{mm}^2$
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 $\text{mm}^2$
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 $\text{mm}^2$
2 conductors with same cross section, solid min.	0.14 $\text{mm}^2$
2 conductors with same cross section, solid max.	1.5 $\text{mm}^2$
2 conductors with same cross section, stranded min.	0.14 $\text{mm}^2$
2 conductors with same cross section, stranded max.	1.5 $\text{mm}^2$
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.14 $\text{mm}^2$

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### Technical data

#### Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>
Connection method	Screw connection
Stripping length	9 mm
Internal cylindrical gage	A3
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

#### Standards and Regulations

Connection in acc. with standard	CSA
Flammability rating according to UL 94	V0

### Classifications

#### eCl@ss

eCl@ss 4.0	27141118
eCl@ss 4.1	27141118
eCl@ss 5.0	27141118
eCl@ss 5.1	27141118
eCl@ss 6.0	27141141
eCl@ss 7.0	27141141
eCl@ss 8.0	27141127

#### ETIM

ETIM 2.0	EC000901
ETIM 3.0	EC000901
ETIM 4.0	EC000901
ETIM 5.0	EC000903

#### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410

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## Classifications

### UNSPSC

UNSPSC 13.2	39121410
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## Approvals

### Approvals


#### Approvals


CSA / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized


#### Ex Approvals

#### Approvals submitted

## Approval details

CSA 		
	B	C
mm <sup>2</sup> /AWG/kcmil	26-12	26-12
Nominal current I <sub>N</sub>	1 A	1 A
Nominal voltage U <sub>N</sub>	300 V	300 V

UL Recognized 			
	B	C	D
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	26-12
Nominal current I <sub>N</sub>	20 A	20 A	5 A
Nominal voltage U <sub>N</sub>	300 V	300 V	600 V

cUL Recognized 			
	B	C	D
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	26-12


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### Approvals

	B	C	D
Nominal current I <sub>N</sub>	20 A	20 A	5 A
Nominal voltage U <sub>N</sub>	300 V	300 V	600 V

EAC

EAC

cULus Recognized 

### Drawings

Circuit diagram

