

# Component terminal block - UTTB 2,5-DIO/O-U - 3046650

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Component terminal block, 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

package_quantity	50
GTIN	4017918997182

## 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
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

### General

Maximum load current	28 A (with 4 mm <sup>2</sup> conductor cross section)
Rated surge voltage	6 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	500 V
Open side panel	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	7.3 kV
Result of surge voltage test	Test passed

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## Technical data

### General

<b>Power frequency withstand voltage setpoint</b>	1.89 kV
<b>Result of power-frequency withstand voltage test</b>	Test passed
<b>Checking the mechanical stability of terminal points (5 x conductor connection)</b>	Test passed
<b>Bending test rotation speed</b>	10 rpm
<b>Bending test turns</b>	135
<b>Bending test conductor cross section/weight</b>	0.14 mm <sup>2</sup> / 0.2 kg
<b>Bending test conductor cross section/weight</b>	2.5 mm <sup>2</sup> / 0.7 kg
<b>Bending test conductor cross section/weight</b>	4 mm <sup>2</sup> / 0.9 kg
<b>Result of bending test</b>	Test passed
<b>Conductor cross section tensile test</b>	0.14 mm <sup>2</sup>
<b>Tractive force setpoint</b>	10 N
<b>Conductor cross section tensile test</b>	2.5 mm <sup>2</sup>
<b>Tractive force setpoint</b>	50 N
<b>Conductor cross section tensile test</b>	4 mm <sup>2</sup>
<b>Tractive force setpoint</b>	60 N
<b>Tensile test result</b>	Test passed
<b>Tight fit on carrier</b>	NS 35
<b>Setpoint</b>	1 N
<b>Result of tight fit test</b>	Test passed
<b>Temperature-rise test</b>	Test passed
<b>Conductor cross section short circuit testing</b>	2.5 mm <sup>2</sup>
<b>Short-time current</b>	0.3 kA
<b>Conductor cross section short circuit testing</b>	4 mm <sup>2</sup>
<b>Short-time current</b>	0.48 kA
<b>Short circuit stability result</b>	Test passed
<b>Proof of thermal characteristics (needle flame) effective duration</b>	30 s
<b>Result of thermal test</b>	Test passed
<b>Test specification, oscillation, broadband noise</b>	DIN EN 50155 (VDE 0115-200):2008-03
<b>Test spectrum</b>	Service life test category 1, class B, body mounted
<b>Test frequency</b>	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
<b>ASD level</b>	0.02 g <sup>2</sup> /Hz
<b>Acceleration</b>	0.8 g
<b>Test duration per axis</b>	5 h
<b>Test directions</b>	X-, Y- and Z-axis
<b>Oscillation, broadband noise test result</b>	Test passed
<b>Test specification, shock test</b>	DIN EN 50155 (VDE 0115-200):2008-03
<b>Shock form</b>	Half-sine
<b>Acceleration</b>	5 g
<b>Shock duration</b>	30 ms
<b>Number of shocks per direction</b>	3

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## Technical data

### General

<b>Test directions</b>	X-, Y- and Z-axis (pos. and neg.)
<b>Shock test result</b>	Test passed
<b>Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))</b>	120 °C

### Dimensions

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

### Connection data

<b>Conductor cross section solid min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	4 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	4 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	26
<b>Conductor cross section AWG/kcmil max</b>	12
<b>Conductor cross section stranded, with ferrule without plastic sleeve min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section stranded, with ferrule without plastic sleeve max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded, with ferrule with plastic sleeve min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section stranded, with ferrule with plastic sleeve max.</b>	2.5 mm <sup>2</sup>
<b>2 conductors with same cross section, solid min.</b>	0.14 mm <sup>2</sup>
<b>2 conductors with same cross section, solid max.</b>	1.5 mm <sup>2</sup>
<b>2 conductors with same cross section, stranded min.</b>	0.14 mm <sup>2</sup>
<b>2 conductors with same cross section, stranded max.</b>	1.5 mm <sup>2</sup>
<b>2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.</b>	0.14 mm <sup>2</sup>
<b>2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.</b>	1.5 mm <sup>2</sup>
<b>2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.</b>	0.5 mm <sup>2</sup>
<b>2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.</b>	1.5 mm <sup>2</sup>
<b>Connection method</b>	Screw connection
<b>Stripping length</b>	9 mm
<b>Internal cylindrical gage</b>	A3
<b>Screw thread</b>	M3
<b>Tightening torque, min</b>	0.5 Nm
<b>Tightening torque max</b>	0.6 Nm

# Component terminal block - UTTB 2,5-DIO/O-U - 3046650

## 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
UNSPSC 13.2	39121410

## approvals

CSA / UL Recognized / cUL Recognized / cULus Recognized /

### Approval details

Usegroups	B	C
Nominal voltage UN	300 V	300 V
Nominal current IN	1 A	1 A
mm <sup>2</sup> /AWG/kcmil	26-12	26-12

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	20 A	20 A	5 A
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	26-12

# Component terminal block - UTTB 2,5-DIO/O-U - 3046650

approvals

cUL Recognized				
Usegroups	B	C	D	
Nominal voltage UN	300 V	300 V	600 V	
Nominal current IN	20 A	20 A	5 A	
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	26-12	

cULus Recognized				
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accessories

## End cover

D-UTT 2,5/4 - 3047293



DP PS-5 - 3036725



## Partition plate

DP-UTT 2,5/4 - 3047303



## Partition plate

# Component terminal block - UTTB 2,5-DIO/O-U - 3046650

## accessories

ATP-UTT 2,5/4 - 3047316



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## Screwdriver tools

SF-SL 0,6X3,5-100 S-VDE - 1212587



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## Marker pen

X-PEN 0,35 - 0811228



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## Bridge

FBS 2-5 - 3030161



FBS 3-5 - 3030174



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## accessories

FBS 4-5 - 3030187



FBS 5-5 - 3030190



FBS 10-5 - 3030213



FBS 20-5 - 3030226



FBS 50-5 - 3038930



FBSR 2-5 - 3033702



# Component terminal block - UTTB 2,5-DIO/O-U - 3046650

## accessories

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FBSR 3-5 - 3001591



FBSR 4-5 - 3001592



FBSR 5-5 - 3001593



FBSR 10-5 - 3033710



## Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733





## Component terminal block - UTTB 2,5-DIO/O-U - 3046650

### accessories

NS 35/ 7,5 UNPERF 2000MM - 0801681



NS 35/ 7,5 WH PERF 2000MM - 1204119



NS 35/ 7,5 WH UNPERF 2000MM - 1204122



NS 35/ 7,5 AL UNPERF 2000MM - 0801704



NS 35/ 7,5 ZN PERF 2000MM - 1206421



NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



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## accessories

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NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/ 7,5 CAP - 1206560



## Terminal marking

ZB 5 :UNBEDRUCKT - 1050004



UC-TM 5 - 0818108



UCT-TM 5 - 0828734



## Component terminal block - UTTB 2,5-DIO/O-U - 3046650

### accessories

ZBF 5:UNBEDRUCKT - 0808642



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UC-TMF 5 - 0818153



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UCT-TMF 5 - 0828744



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### Labeled terminal marker

ZB 5 CUS - 0824962



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ZB 5,LGS:FORTL.ZAHLEN - 1050017



## Component terminal block - UTTB 2,5-DIO/O-U - 3046650

### accessories

ZB 5,QR:FORTL.ZAHLEN - 1050020



ZB 5,LGS:GLEICHE ZAHLEN - 1050033



ZB 5,LGS:L1-N,PE - 1050415



UC-TM 5 CUS - 0824581



UCT-TM 5 CUS - 0829595



ZBF 5 CUS - 0825025



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## accessories

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ZBF 5,LGS:FORTL.ZAHLEN - 0808671



ZBF 5,QR:FORTL.ZAHLEN - 0808697



ZBF 5,LGS:GERADE ZAHLEN - 0810821



ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



UC-TMF 5 CUS - 0824638



## Component terminal block - UTTB 2,5-DIO/O-U - 3046650

accessories

UCT-TMF 5 CUS - 0829658



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### Test plug terminal block

MPS-MT - 0201744



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PAI-4-N GY - 3032871



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PS-5 - 3030983



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PS-5/2,3MM RD - 3038723



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### Insulating sleeve

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## accessories

MPS-IH WH - 0201663



MPS-IH RD - 0201676



MPS-IH BU - 0201689



MPS-IH YE - 0201692



MPS-IH GN - 0201702



MPS-IH GY - 0201728



# Component terminal block - UTTB 2,5-DIO/O-U - 3046650

accessories

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MPS-IH BK - 0201731



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## Drawings

Circuit diagram

