

# Feed-through terminal block - QTTCBU 1,5 - 3050264

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Feed-through terminal block, Connection method: Quick connection, Screw connection, Cross section: 0.25 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, Width: 5.2 mm, Color: gray, Mounting: NS 35/7,5, NS 35/15

## Product Features

- The time-saving QUICKON fast connection is used on the control cabinet side
- The hybrid versions combine the advantages of the different connection technologies
- The screw connection is used on the connection side

## Key commercial data

<b>package_quantity</b>	50
<b>GTIN</b>	4046356056106

## Technical data

### General

<b>Number of levels</b>	2
<b>Number of connections</b>	4
<b>Color</b>	gray
<b>Insulating material</b>	PA
<b>Inflammability class according to UL 94</b>	V0

### General

<b>Maximum load current</b>	17.5 A (with 1.5 mm <sup>2</sup> conductor cross section)
<b>Rated surge voltage</b>	6 kV
<b>Pollution degree</b>	3
<b>Surge voltage category</b>	III
<b>Insulating material group</b>	I
<b>Connection in acc. with standard</b>	IEC 60947-7-1
<b>Nominal current I<sub>N</sub></b>	17.5 A
<b>Nominal voltage U<sub>N</sub></b>	500 V
<b>Open side panel</b>	ja
<b>Shock protection test specification</b>	DIN EN 50274 (VDE 0660-514):2002-11
<b>Back of the hand protection</b>	Not guaranteed
<b>Result of surge voltage test</b>	Test passed
<b>Result of power-frequency withstand voltage test</b>	Test passed

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## Technical data

### General

Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.25 mm <sup>2</sup> / 0.3 kg
Bending test conductor cross section/weight	1.5 mm <sup>2</sup> / 0.4 kg
Bending test conductor cross section/weight	0.14 mm <sup>2</sup> / 0.3 kg
Bending test conductor cross section/weight	2.5 mm <sup>2</sup> / 0.7 kg
Bending test conductor cross section/weight	4 mm <sup>2</sup> / 0.9 kg
Result of bending test	Test passed
Tensile test result	Test passed
Setpoint	1 N
Result of tight fit test	Test passed
Requirements, voltage drop	$U_1 \leq 3.2 \text{ mV}$
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	1.5 mm <sup>2</sup>
Short-time current	0.18 kA
Short circuit stability result	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of aging test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	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
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.02 g <sup>2</sup> /Hz
Acceleration	0.8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Semi-sinusoidal
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	120 °C

# Feed-through terminal block - QTTCBU 1,5 - 3050264

## Technical data

### Dimensions

<b>Width</b>	5.2 mm
<b>Length</b>	93.5 mm
<b>Height NS 35/7,5</b>	55.5 mm
<b>Height NS 35/15</b>	63 mm

### Connection data

<b>Connection method</b>	Quick connection
<b>Max. wire diameter incl. insulation</b>	3 mm
<b>Internal cylindrical gage</b>	A3 / B2
<b>Conductor cross section solid min.</b>	0.25 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	1.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.25 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	1.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	24
<b>Conductor cross section AWG/kcmil max</b>	16
<b>Structure of individual litz in acc. with VDE 0295 / smallest wire diameter</b>	Class 1 to 5

### Connection data

<b>Connection method</b>	Screw connection
<b>Screw thread</b>	M3
<b>Tightening torque, min</b>	0.5 Nm
<b>Tightening torque max</b>	0.6 Nm
<b>Stripping length</b>	9 mm
<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 AWG/kcmil min.</b>	26
<b>Conductor cross section AWG/kcmil max</b>	12
<b>Conductor cross section stranded min.</b>	0.14 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded, with ferrule without plastic sleeve min.</b>	0.14 mm <sup>2</sup>
<b>Value</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>Value</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>Value</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>Value</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>

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## Technical data

### Connection data

<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>Value</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>Value</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>Value</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>Value</b>	1.5 mm <sup>2</sup>

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27141118
<b>eCl@ss 4.1</b>	27141118
<b>eCl@ss 5.0</b>	27141118
<b>eCl@ss 5.1</b>	27141118
<b>eCl@ss 6.0</b>	27141120
<b>eCl@ss 7.0</b>	27141120
<b>eCl@ss 8.0</b>	27141120

### ETIM

<b>ETIM 2.0</b>	EC000897
<b>ETIM 3.0</b>	EC000897
<b>ETIM 4.0</b>	EC000897
<b>ETIM 5.0</b>	EC000897

### UNSPSC

<b>UNSPSC 6.01</b>	30211811
<b>UNSPSC 7.0901</b>	39121410
<b>UNSPSC 11</b>	39121410
<b>UNSPSC 12.01</b>	39121410
<b>UNSPSC 13.2</b>	39121410

## approvals

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CSA / UL Recognized / cUL Recognized / GOST / GL / GOST / cULus Recognized /

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# Feed-through terminal block - QTTCBU 1,5 - 3050264

approvals

Approval details

CSA

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	10 A	10 A	5 A
mm <sup>2</sup> /AWG/kcmil	24-16	24-16	24-16

UL Recognized

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	10 A	10 A	5 A
mm <sup>2</sup> /AWG/kcmil	24-16	24-16	24-16

cUL Recognized

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	10 A	10 A	5 A
mm <sup>2</sup> /AWG/kcmil	24-16	24-16	24-16

GOST

GL

cULus Recognized

accessories

End cover

## Feed-through terminal block - QTTCBU 1,5 - 3050264

### accessories

D-QTTCBU 1,5 - 3050536



DP PS-5 - 3036725



### Partition plate

ATP-QTTCB - 3206238



### Screwdriver tools

SZF 1-0,6X3,5 - 1204517



### Marker pen

X-PEN 0,35 - 0811228



# Feed-through terminal block - QTTCBU 1,5 - 3050264

accessories

## Bridge

FBS 2-5 - 3030161



FBS 3-5 - 3030174



FBS 4-5 - 3030187



FBS 5-5 - 3030190



FBS 10-5 - 3030213



## Feed-through terminal block - QTTCBU 1,5 - 3050264

accessories

FBS 50-5 - 3038930



FBS-PV - 3032185



### Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



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





## Feed-through terminal block - QTTCBU 1,5 - 3050264

### accessories

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



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



NS 35/ 7,5 CAP - 1206560



## Feed-through terminal block - QTTCBU 1,5 - 3050264

accessories

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NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



## Feed-through terminal block - QTTCBU 1,5 - 3050264

### accessories

NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



NS 35/15-2,3 UNPERF 2000MM - 1201798



### Terminal marking

# Feed-through terminal block - QTTCBU 1,5 - 3050264

## accessories

ZB 5 :UNBEDRUCKT - 1050004



UC-TM 5 - 0818108



UCT-TM 5 - 0828734



ZBF 5:UNBEDRUCKT - 0808642



UC-TMF 5 - 0818153



UCT-TMF 5 - 0828744



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accessories

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## Labeled terminal marker

ZB 5 CUS - 0824962



ZB 5,LGS:FORTL.ZAHLEN - 1050017



ZB 5,QR:FORTL.ZAHLEN - 1050020



ZB 5,LGS:GLEICHE ZAHLEN - 1050033



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



## Feed-through terminal block - QTTCBU 1,5 - 3050264

### accessories

UC-TM 5 CUS - 0824581



UCT-TM 5 CUS - 0829595



ZBF 5 CUS - 0825025



ZBF 5,LGS:FORTL.ZAHLEN - 0808671



ZBF 5,QR:FORTL.ZAHLEN - 0808697



ZBF 5,LGS:GERADE ZAHLEN - 0810821



## Feed-through terminal block - QTTCBU 1,5 - 3050264

accessories

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ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



UC-TMF 5 CUS - 0824638



UCT-TMF 5 CUS - 0829658



**Test plug terminal block**

MPS-MT - 0201744



PAI-4-FIX-5/6 BU - 3035975



## Feed-through terminal block - QTTCBU 1,5 - 3050264

### accessories

PAI-4-FIX-5/6 OG - 3035974



PAI-4-FIX-5/6 YE - 3035977



PAI-4-FIX-5/6 RD - 3035976



PAI-4-FIX-5/6 GN - 3035978



PAI-4-FIX-5/6 BK - 3035980



PAI-4-FIX-5/6 GY - 3035982





## Feed-through terminal block - QTTCBU 1,5 - 3050264

accessories

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PAI-4-FIX-5/6 VT - 3035979



PAI-4-FIX-5/6 BN - 3035981



PS-5 - 3030983



PS-5/2,3MM RD - 3038723



### Insulating sleeve

MPS-IH WH - 0201663



# Feed-through terminal block - QTTCBU 1,5 - 3050264

## accessories

MPS-IH RD - 0201676



MPS-IH BU - 0201689



MPS-IH YE - 0201692



MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



# Feed-through terminal block - QTTCBU 1,5 - 3050264

accessories

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## End block

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



E/UK - 1201442



E/UK 1 - 1201413



## Drawings

## Feed-through terminal block - QTTCBU 1,5 - 3050264

Circuit diagram



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