

# Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

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Feed-through terminal block, Connection method: Spring-cage connection, Cross section: 0.08 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 28 - 16, Width: 3.5 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

## Product Features

- Cross connection to any number of terminal blocks with the consistent FBS ... plug-in bridge system
- Compact potential distributors, the double connection enables four conductors to be connected on one potential

## Key commercial data

package_quantity	50
GTIN	4046356549189

## Technical data

### General

Number of levels	1
Number of connections	4
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

### General

Maximum load current	17.5 A (In case of a 1.5 mm <sup>2</sup> conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Rated surge voltage	6 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	17.5 A (the maximum load current must not be exceeded by the total current of all connected conductors)
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

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## Technical data

### General

Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 kV
Result of power-frequency withstand voltage test	Test passed
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	0.08 mm <sup>2</sup> / 0.1 kg
Bending test conductor cross section/weight	1.5 mm <sup>2</sup> / 0.4 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.08 mm <sup>2</sup>
Tractive force setpoint	5 N
Conductor cross section tensile test	1.5 mm <sup>2</sup>
Tractive force setpoint	40 N
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 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	Half-sine
Acceleration	5 g
Shock duration	30 ms

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## Technical data

### General

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))	130 °C
Static insulating material application in cold	-60 °C

### Dimensions

Width	3.5 mm
Length	72 mm
Height NS 35/7,5	32 mm
Height NS 35/15	39.5 mm

### Connection data

Conductor cross section solid min.	0.08 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
Conductor cross section stranded min.	0.08 mm <sup>2</sup>
Conductor cross section stranded max.	1.5 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	28
Max. AWG conductor cross section, stranded	16
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	1.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	1 mm <sup>2</sup>
Connection method	Spring-cage connection
Stripping length	8 mm
Internal cylindrical gage	A 1

## classifications

### eCl@ss

eCl@ss 4.0	27141121
eCl@ss 4.1	27141121
eCl@ss 5.0	27141125
eCl@ss 5.1	27141125
eCl@ss 6.0	27141125
eCl@ss 7.0	27141125
eCl@ss 8.0	27141125

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## classifications

### 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

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

### Approval details

<b>CSA</b>			
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	28-16	28-16	28-16

<b>UL Recognized</b>			
Usegroups	B	C	D
Nominal voltage UN	10 V	10 V	5 V
Nominal current IN	300 A	300 A	600 A
mm <sup>2</sup> /AWG/kcmil	28-16	28-16	28-16

<b>cUL Recognized</b>			
Usegroups	B	C	D
Nominal voltage UN	10 V	10 V	5 V
Nominal current IN	300 A	300 A	600 A
mm <sup>2</sup> /AWG/kcmil	28-16	28-16	28-16

# Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

approvals



accessories

**End cover**

D-ST 1,5/S-QUATTRO - 3213166



DP PS-4 - 3036712



**Test plug terminal block**

RPS - 0201647



## Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

accessories

MPS-MT - 0201744



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PS-4 - 3030970



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**Partition plate**

ATP-ST QUATTRO - 3030815



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**Screwdriver tools**

SZF 0-0,4X2,5 - 1204504



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**Labeled terminal marker**

WST 1,5 - 3030958



# Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

## accessories

ZB 3,5 CUS - 0829415



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UCT-TM 3,5 CUS - 0829581



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ZBF 3,5 CUS - 0829394



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UCT-TMF 3,5 CUS - 0829644



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## Documentation

ST-IL - 3039900



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## Bridge

# Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

## accessories

FBS 2-3,5 - 3213014



FBS 4-3,5 - 3213030



FBS 5-3,5 - 3213043



FBS 10-3,5 - 3213056



FBS 10-3,5 - 3213056



RB ST 6-1,5/S - 3213250





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accessories

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RB ST (2,5/4)-1,5/S - 3214356



FBS 3-3,5 - 3213027



FBS 2-3,5 BU - 3213086



FBS 3-3,5 BU - 3213099



FBS 4-3,5 BU - 3213109



## Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

accessories

FBS 5-3,5 BU - 3213112



FBS 10-3,5 BU - 3213125



FBS 20-3,5 BU - 3213138



FBS 20-3,5 - 3213069



### Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



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### 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



## Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

accessories

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



NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



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accessories

NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



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



# Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

accessories

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



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## Terminal marking

ZB 3,5:UNBEDRUCKT - 0829414



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UCT-TM 3,5 - 0829484



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ZBF 3,5:UNBEDRUCKT - 0829392



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UCT-TMF 3,5 - 0829486



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## Insulating sleeve

# Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

## 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



# Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

accessories

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MPS-IH BK - 0201731



## End block

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CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



E/UK - 1201442





# Feed-through terminal block - ST 1,5/S-QUATTRO - 3213124

accessories

E/UK 1 - 1201413



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## Drawings

Circuit diagram



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