Feed-through terminal block - ST 4-QUATTRO - 3031445

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Feed-through terminal block, Connection method: Spring-cage connection, Cross section: 0.08 mm² - 6 mm², AWG: 28 - 10, Width: 6.2 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
- Tested for railway applications
- Compact potential distributors, the double connection enables four conductors to be connected on one potential

Key commercial data

package_quantity	50
GTIN	4017918186890

Technical data

General

Number of levels	1
Number of connections	4
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Area of application	Railway industry
Area of application	Mechanical engineering
Area of application	Plant engineering
Area of application	Process industry

General

Maximum load current	40 A (In the case of a 6 mm² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1

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Technical data

General

Nominal current I_N	32 A (the maximum load current must not be exceeded by the total current of all connected conductors)
Nominal voltage U_N	800 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	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2 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 mm² / 0.1 kg
Bending test conductor cross section/weight	4 mm² / 0.9 kg
Bending test conductor cross section/weight	6 mm^2 / 1.4 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.08 mm²
Tractive force setpoint	5 N
Conductor cross section tensile test	4 mm²
Tractive force setpoint	60 N
Conductor cross section tensile test	6 mm²
Tractive force setpoint	80 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	4 mm²
Short-time current	0.48 kA
Conductor cross section short circuit testing	6 mm²
Short-time current	0.72 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

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General

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 2, bogie mounted
Test frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2$/Hz
Acceleration	3.12 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	30 g
Shock duration	18 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))	125 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	6.2 mm
Length	87 mm
Height NS 35/7,5	36.5 mm
Height NS 35/15	44 mm

Connection data

Conductor cross section solid min.	0.08 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	10
Conductor cross section stranded min.	0.08 mm²
Conductor cross section stranded max.	4 mm²
Min. AWG conductor cross section, stranded	28
Max. AWG conductor cross section, stranded	12
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section stranded, with ferrule without plastic sleeve max.	4 mm²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section stranded, with ferrule with plastic sleeve max.	4 mm²

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Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1 mm²
Connection method	Spring-cage connection
Minimum stripping length	8 mm
Maximum stripping length	10 mm
Internal cylindrical gage	A4

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

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

approvals

IECEx / ATEX / CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / GOST / LR / GL / BV / DNV / RS / ABS / KR / NK / IECEE CB Scheme / GOST / VDE Gutachten mit Fertigungsüberwachung / IECEE CB Scheme / cULus Recognized /

Approval details

IECEx	
Nominal voltage UN	550 V

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approvals

Nominal current IN	28.5 A
mm²/AWG/kcmil	0.08-4

ATEX

Nominal voltage UN	550 V
Nominal current IN	34.5 A
mm²/AWG/kcmil	0.08-6

CSA

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	30 A	30 A
mm²/AWG/kcmil	28-10	28-10

UL Recognized

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	30 A	30 A
mm²/AWG/kcmil	28-10	28-10

VDE Gutachten mit Fertigungsüberwachung

Nominal voltage UN	800 V
Nominal current IN	32 A
mm²/AWG/kcmil	0.2-4

cUL Recognized

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	30 A	30 A
mm²/AWG/kcmil	28-10	28-10

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approvals

GOST

LR

GL

Nominal voltage UN	800 V
Nominal current IN	32 A
mm²/AWG/kcmil	4

BV

DNV

RS

ABS

Nominal voltage UN	600 V
Nominal current IN	30 A
mm²/AWG/kcmil	20-10

KR

NK

IECEE CB Scheme

Nominal voltage UN	800 V
Nominal current IN	
mm²/AWG/kcmil	4

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approvals

Nominal voltage UN	800 V
Nominal current IN	32 A
mm²/AWG/kcmil	4

Nominal voltage UN	800 V
Nominal current IN	
mm²/AWG/kcmil	4

cULus Recognized

accessories

End cover

D-ST 4-QUATTRO - 3030527

DS-ST 4 - 3036615

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accessories

DP PS-6 - 3036738

Test plug terminal block

RPS - 0201647

MPS-MT - 0201744

PAI-4-N GY - 3032871

PS-6 - 3030996

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accessories

PS-6/2,3MM RD - 3038736

Partition plate

ATP-ST QUATTRO - 3030815

Screwdriver tools

SZF 1-0,6X3,5 - 1204517

Labeled terminal marker

WST 4 - 3030954

ZB 6 CUS - 0824992

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accessories

UC-TM 6 CUS - 0824589

UCT-TM 6 CUS - 0829602

ZBF 6 CUS - 0825027

UC-TMF 6 CUS - 0824646

UCT-TMF 6 CUS - 0829665

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accessories

ST-IL - 3039900

Bridge

FBS 20-6 - 3030365

FBS 10-6 - 3030271

FBS 5-6 - 3030349

FBS 4-6 - 3030255

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accessories

FBS 3-6 - 3030242

FBS 2-6 - 3030336

FBS 2-3,5 BU - 3213086

FBS 3-3,5 BU - 3213099

FBS 4-3,5 BU - 3213109

FBS 5-3,5 BU - 3213112

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accessories

FBS 10-3,5 BU - 3213125

FBS 20-3,5 BU - 3213138

FBSR 2-6 - 3033715

FBSR 10-6 - 3033716

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

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accessories

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

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accessories

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

Terminal marking

ZB 6:UNBEDRUCKT - 1051003

UC-TM 6 - 0818085

UCT-TM 6 - 0828736

ZBF 6:UNBEDRUCKT - 0808710

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accessories

UC-TMF 6 - 0818140

UCT-TMF 6 - 0828746

Insulating sleeve

MPS-IH WH - 0201663

MPS-IH RD - 0201676

MPS-IH BU - 0201689

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accessories

MPS-IH YE - 0201692

MPS-IH GN - 0201702

MPS-IH GY - 0201728

MPS-IH BK - 0201731

ISH 4/0,5 - 3002885

ISH 4/1,0 - 3002898

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accessories

End block

CLIPFIX 35 - 3022218

CLIPFIX 35-5 - 3022276

E/NS 35 N - 0800886

E/UK - 1201442

E/UK 1 - 1201413

Drawings

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Circuit diagram