Feed-through terminal block - PT 6-QUATTRO - 3212934

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Feed-through terminal block, Connection method: Push-in connection, Number of connections: 4, Cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, Width: 8.2 mm, Height: 42.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Your advantages

- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design and front connection enable wiring in a confined space
- In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection
- Tested for railway applications

Key commercial data

package_quantity	50
GTIN	4046356538121

Technical data

General

Number of levels	1
Number of connections	4
Potentials	1
Nominal cross section	6 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
Area of application	Machine building
Area of application	Plant engineering

General

Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	1.31 W

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Technical data

General

Maximum load current	52 A (with 10 mm² conductor cross section)
Nominal current I_N	41 A
Nominal voltage U_N	1000 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	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 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	0.5 mm² / 0.3 kg
Bending test conductor cross section/weight	6 mm^2 / 1.4 kg
Bending test conductor cross section/weight	10 mm² / 2 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.5 mm²
Tractive force setpoint	20 N
Conductor cross section tensile test	6 mm²
Tractive force setpoint	80 N
Conductor cross section tensile test	10 mm²
Tractive force setpoint	90 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	5 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	6 mm²
Short-time current	0.72 kA
Conductor cross section short circuit testing	10 mm²
Short-time current	1.2 kA
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed

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Technical data

General

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 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
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30g
Shock duration	18 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))	130 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

Dimensions

Width	8.2 mm
End cover width	2.2 mm
Length	90.5 mm
Height	42.2 mm
Height NS 35/7,5	43.5 mm
Height NS 35/15	51 mm

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Technical data

Connection data

Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	10 mm²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	6 mm²
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm²
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.	1.5 mm²
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A5

Standards and Regulations

Connection in acc. with standard	CSA
Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
China RoHS	No hazardous substances above threshold values

Classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

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Classifications

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897
ETIM 6.0	EC000897

UNSPSC

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

Approvals

IECEx / ATEX / EAC Ex / UL Recognized / cUL Recognized / CSA / BV / LR / EAC / NK / EAC / ABS / VDE approval of drawings / IECEE CB Scheme / DNV GL / PRS / ABS / GL / cULus Recognized /

Approval details

IECEx	
Nominal voltage UN	550 V
Nominal current IN	36 A
mm²/AWG/kcmil	0.5-6

ATEX	
Nominal voltage UN	550 V
Nominal current IN	36 A
mm²/AWG/kcmil	0.5-6

EAC Ex

UL Recognized		
Usegroups	**B**	**C**
Nominal voltage UN	600 V	600 V
Nominal current IN	40 A	40 A
mm²/AWG/kcmil	20-8	20-8

cUL Recognized

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Approvals

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	40 A	40 A
mm²/AWG/kcmil	20-8	20-8

CSA

Usegroups	B	C	D
Nominal voltage UN	600 V	600 V	600 V
Nominal current IN	40 A	40 A	40 A
mm²/AWG/kcmil	20-8	20-8	20-8

BV

LR

EAC

NK ClassNK

ABS

VDE approval of drawings

Nominal voltage UN	1000 V
Nominal current IN	41 A
mm²/AWG/kcmil	0.5-6

IECEE CB Scheme

Nominal voltage UN	1000 V
Nominal current IN	41 A
mm²/AWG/kcmil	0.5-6

DNV GL

PRS

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Approvals

GL

cULus Recognized

Accessories

End cover

D-PT 6-QUATTRO - 3212963



Screwdriver tools

SZF 2-0,8X4,0 - 1204520



Documentation

PT-IL - 3208090



Jumper

FBS 2-8 - 3030284



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Accessories

FBS 3-8 - 3030297



FBS 4-8 - 3030307



FBS 5-8 - 3030310



FBS 6-8 - 3032470



FBS 10-8 - 3030323



FBS 2-8 CT - 3033830



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Accessories

FBS 3-8 CT - 3033831



FBS 4-8 CT - 3033832



FBS 10-8 CT - 3033833



FBS 2-8 BU - 3032567



FBS 3-8 BU - 3032570



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Accessories

FBS 4-8 BU - 3032583



FBS 5-8 BU - 3032596



FBS 6-8 BU - 3032677



FBS 10-8 BU - 3032606



FBS 2-8 GY - 3032621



FBS 3-8 GY - 3032622



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Accessories

FBS 4-8 GY - 3032635



FBS 5-8 GY - 3032648



FBS 6-8 GY - 3032664



FBS 10-8 GY - 3032651



FBSR 2-8 - 3033808



Feed-through terminal block - PT 6-QUATTRO - 3212934

Accessories

FBSR 3-8 - 3001597



FBSR 4-8 - 3000585



FBSR 5-8 - 3033809



FBSR 10-8 - 3001599



FBSR 16-8 - 3033816



Short-circuit connector

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Accessories

FBSRH 2-8 - 3033802



FBSRH 3-8 - 3033803



FBSRH 4-8 - 3033804



Reducing bridge

RB ST 6-(2,5/4) - 3030860



RB ST 6-1,5/S - 3213250



Switching jumper

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Accessories

SB-MER 2-8 - 3000587



SB-MER 3-8 - 3000588



SB-MER 4-8 - 3000589



DIN rail

NS 35/ 7,5 PERF 2000MM - 0801733

NS 35/ 7,5 UNPERF 2000MM - 0801681

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Accessories

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



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



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Accessories

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



NS 35/15 WH UNPERF 2000MM - 1204135



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Accessories

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



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



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Accessories

Terminal marking

ZB 8:UNBEDRUCKT - 1052002



UC-TM 8 - 0818072



UCT-TM 8 - 0828740



ZBF 8:UNBEDRUCKT - 0808781



UC-TMF 8 - 0818137



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Accessories

UCT-TMF 8 - 0828748



TMT (EX9,5)R - 0828295



US-TM 100 - 0829255



Labeled terminal marker

ZB 8 CUS - 0825011



UC-TM 8 CUS - 0824597



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Accessories

UCT-TM 8 CUS - 0829616



ZB 8,LGS:FORTL.ZAHLEN - 1052015



ZB 8,QR:FORTL.ZAHLEN - 1052028



ZB 8,LGS:L1-N,PE - 1052413



ZBF 8 CUS - 0825030



ZBF 8,LGS:FORTL.ZAHLEN - 0808804



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Accessories

UC-TMF 8 CUS - 0824654



UCT-TMF 8 CUS - 0829672



Test plug terminal block

MPS-MT - 0201744



PS-8 - 3031005



PS-8/2,3MM RD - 3048564



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



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Accessories

MPS-IH BK - 0201731



Test socket

PAI-4-FIX BU - 3032729



PAI-4-FIX OG - 3034455



PAI-4-FIX YE - 3032745



PAI-4-FIX RD - 3032732



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Accessories

PAI-4-FIX GN - 3032758



PAI-4-FIX BK - 3032774



PAI-4-FIX GY - 3032790



PAI-4-FIX VT - 3032761



PAI-4-FIX BN - 3032787



PAI-4-FIX WH - 3032797



Feed-through terminal block - PT 6-QUATTRO - 3212934

Accessories

PAIS-4-FIX GY - 3032791



PAIS-4-FIX BK - 3032792



PAIS-4-FIX RD - 3032793



PAIS-4-FIX BU - 3032798



PAIS-4-FIX YE - 3032799



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Accessories

PAIS-4-FIX GN - 3032801



PAIS-4-FIX VT - 3032802



Partition plate

DP PS-8 - 3036741



Planning and marking software

CLIP-PROJECT ADVANCED - 5146040



CLIP-PROJECT PROFESSIONAL - 5146053



End block

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Accessories

E/UK - 1201442



E/UK 1 - 1201413



CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



Drawings

Circuit diagram



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