

Feed-through terminal block - PT 6 - 3211813

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Feed-through terminal block, Connection method: Push-in connection, 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

Product Features

- 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	4046356494656

Technical data

General

Number of levels	1
Number of connections	2
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

General

Maximum load current	52 A (with 10 mm ² conductor cross section)
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
Nominal current I_N	41 A
Nominal voltage U_N	1000 V
Open side panel	ja

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Technical data

General

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	2.2 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	0.5 mm ² / 0.3 kg
Bending test conductor cross section/weight	6 mm ² / 1.4 kg
Bending test conductor cross section/weight	10 mm ² / 2 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.5 mm ²
Tractive force setpoint	20 N
Conductor cross section tensile test	6 mm ²
Tractive force setpoint	80 N
Conductor cross section tensile test	10 mm ²
Tractive force setpoint	90 N
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	5 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	6 mm ²
Short-time current	0.72 kA
Conductor cross section short circuit testing	10 mm ²
Short-time current	1.2 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 2, bogie mounted
Test frequency	f ₁ = 5 Hz to f ₂ = 150 Hz

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Technical data

General

ASD level	11.83 (m/s ²) ² /Hz
Acceleration	4.25 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))	130 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	8.2 mm
Length	57.7 mm
Height	42.2 mm
Height NS 35/7,5	43.5 mm
Height NS 35/15	51 mm

Connection data

Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	10 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	8
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	6 mm ²
Min. AWG conductor cross section, stranded	20
Max. AWG conductor cross section, stranded	10
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.5 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	6 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	6 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm ²
Connection method	Push-in connection

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Technical data

Connection data

Stripping length	12 mm
Internal cylindrical gage	A5

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

ETIM

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

UL Recognized / cUL Recognized / VDE Zeichengenehmigung / LR / GL / CSA / IEC/CEC CB Scheme / GOST / cULus Recognized /

Approval details

UL Recognized		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	40 A	40 A
mm ² /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
mm ² /AWG/kcmil	20-8	20-8

VDE Zeichengenehmigung

Nominal voltage UN	1000 V
Nominal current IN	
mm ² /AWG/kcmil	0.5-6

LR

GL

CSA

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	40 A	40 A
mm ² /AWG/kcmil	20-8	20-8

IECEE CB Scheme

Nominal voltage UN	1000 V
Nominal current IN	
mm ² /AWG/kcmil	6

GOST

cULus Recognized

accessories

End cover

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accessories

D-PT 6 - 3212044



DP PS-8 - 3036741



Partition plate

ATP-ST 6 - 3024481



Screwdriver tools

SZF 2-0,8X4,0 - 1204520



Documentation

PT-IL - 3208090



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accessories

Bridge

FBS 10-8 - 3030323



FBS 5-8 - 3030310



FBS 4-8 - 3030307



FBS 3-8 - 3030297



FBS 2-8 - 3030284



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



FBS 6-8 - 3032470



RB ST 6-1,5/S - 3213250



SB-MER 2-8 - 3000587



SB-MER 3-8 - 3000588



SB-MER 4-8 - 3000589



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FBSRH 2-8 - 3033802



FBSRH 3-8 - 3033803



FBSRH 4-8 - 3033804



Mounting 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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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



Labeled terminal marker

ZB 8 CUS - 0825011



UC-TM 8 CUS - 0824597



UCT-TM 8 CUS - 0829616



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accessories

ZBF 8 CUS - 0825030



UC-TMF 8 CUS - 0824654



UCT-TMF 8 CUS - 0829672



Test plug terminal block

MPS-MT - 0201744



PAI-4-FIX BU - 3032729



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accessories

PAI-4-FIX OG - 3034455



PAI-4-FIX YE - 3032745



PAI-4-FIX RD - 3032732



PAI-4-FIX GN - 3032758



PAI-4-FIX BK - 3032774



PAI-4-FIX GY - 3032790



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accessories

PAI-4-FIX VT - 3032761



PAI-4-FIX BN - 3032787



PS-8 - 3031005



PS-8/2,3MM RD - 3048564



Insulating sleeve

MPS-IH WH - 0201663



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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



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accessories

Planning and marking software

CLIP-PROJECT ADVANCED - 5146040



CLIP-PROJECT PROFESSIONAL - 5146053



End block

E/UK - 1201442



E/UK 1 - 1201413



CLIPFIX 35 - 3022218



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accessories

CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



Drawings

Circuit diagram



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