Feed-through terminal block - ST 4 - 3031364

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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

- As well as saving space, the compact design and front connection enable user-friendly wiring in a small amount of space
- Tested for railway applications
- The consistent double function shaft offers every opportunity for time-saving potential distribution and accommodating test accessories
- The large wiring space enables the use of conductors with ferrules and plastic collars within the nominal cross section

Key commercial data

package_quantity	50
GTIN	4017918186838

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
Area of application	Process industry

General

Maximum load current	40 A (with 6 mm² 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	32 A
Nominal voltage U_N	800 V

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Technical data

General

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
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

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General

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	56 mm
Height NS 35/7,5	36.5 mm
Height NS 35/15	44 mm

Connection data

Connection in acc. with standard	IEC 60947-7-1
Connection method	Spring-cage connection
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
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²

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Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1 mm²
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	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120

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
Nominal current IN	30 A
mm²/AWG/kcmil	0.08-4

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ATEX

Nominal voltage UN	550 V
Nominal current IN	30 A
mm²/AWG/kcmil	0.08-4

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

GOST

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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

Nominal voltage UN	800 V

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Nominal current IN	32 A
mm²/AWG/kcmil	0.2-4

CB

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

cULus Recognized

accessories

End cover

D-ST 4 - 3030420

DP PS-6 - 3036738

Test plug terminal block

RPS - 0201647

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accessories

MPS-MT - 0201744

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

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

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accessories

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

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

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

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

PS-6 - 3030996

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accessories

PS-6/2,3MM RD - 3038736

Partition plate

ATP-ST 4 - 3030721

Screwdriver tools

SZF 1-0,6X3,5 - 1204517

Labeled terminal marker

WST 4 - 3030954

ZB 6 CUS - 0824992

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accessories

ZB 6,LGS:FORTL.ZAHLEN - 1051016

ZB 6,QR:FORTL.ZAHLEN - 1051029

ZB 6,LGS:GLEICHE ZAHLEN - 1051032

ZB 6,LGS:L1-N,PE - 1051414

ZB 6,LGS:U-N - 1051430

UC-TM 6 CUS - 0824589

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accessories

UCT-TM 6 CUS - 0829602

ZBF 6 CUS - 0825027

UC-TMF 6 CUS - 0824646

UCT-TMF 6 CUS - 0829665

ZBF 6,LGS:FORTL.ZAHLEN - 0808749

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accessories

ZBF 6,QR:FORTL.ZAHLEN - 0808765

ZBF 6,LGS:GERADE ZAHLEN - 0810834

ZBF 6,LGS:UNGERADE ZAHLEN - 0810876

Terminal marking

GBS 5-25X12 - 0810588

ZB 6:UNBEDRUCKT - 1051003

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accessories

UC-TM 6 - 0818085

UCT-TM 6 - 0828736

ZBF 6:UNBEDRUCKT - 0808710

UC-TMF 6 - 0818140

UCT-TMF 6 - 0828746

Marker carriers

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accessories

GBS-ZB/26X6 - 0809298

CARRIER-TM 300 - 0828282

Documentation

ST-IL - 3039900

Bridge

FBS 20-6 - 3030365

FBS 10-6 - 3030271

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accessories

FBS 5-6 - 3030349

FBS 4-6 - 3030255

FBS 3-6 - 3030242

FBS 2-6 - 3030336

FBSR 2-6 - 3033715

FBSR 10-6 - 3033716

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accessories

FBSR 2-6 - 3033715

FBSR 3-6 - 3001594

FBSR 4-6 - 3001595

FBSR 5-6 - 3001596

FBSR 10-6 - 3033716

Mounting rail

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accessories

NS 35/ 7,5 PERF 2000MM - 0801733

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

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NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

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

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NS 35/15 WH PERF 2000MM - 0806602

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

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accessories

NS 35/15 CAP - 1206573

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

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

Planning and marking software

CLIP-PROJECT ADVANCED - 5146040

CLIP-PROJECT PROFESSIONAL - 5146053

End block

CLIPFIX 35 - 3022218

CLIPFIX 35-5 - 3022276

E/NS 35 N - 0800886

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accessories

E/UK - 1201442

E/UK 1 - 1201413

Drawings

Circuit diagram