Feed-through terminal block - PT 6 BK - 3211814

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 2, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 42.2 mm, color: black, 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

Key Commercial Data

Packing unit	50 pc
GTIN	4 046356 879842
GTIN	4046356879842

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	6 mm²
Color	black
Insulating material	PA
Flammability rating according to UL 94	V0
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
Designation	Level 1 above 1 below 1

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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
	6 mm^2 / 1.4 kg
	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	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	6 mm²
Tractive force setpoint	80 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	$U_1 \leq 3.2$ mV; $U_2 \leq 1.5 \times U_1$
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 AC
Conductor cross section short circuit testing	10 mm²
Short-time current	1.2 kA AC
Result of thermal test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192

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Technical data

General

Proof of thermal characteristics (needle flame) effective duration	30 s
Result of aging test	Test passed
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	57.7 mm
Height	42.2 mm
Height NS 35/7,5	43.5 mm
Height NS 35/15	51 mm

Connection data

Connection	1 level
Connection method	Push-in connection
Stripping length	12 mm
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

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Connection data

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
Internal cylindrical gage	A5

Standards and Regulations

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

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

Drawings

Circuit diagram

Approvals

Approvals

Approvals

DNV GL / CSA / PRS / BV / LR / NK / ABS / UL Recognized / cUL Recognized / IECEE CB Scheme / VDE Zeichengenehmigung / EAC / EAC / RS / cULus Recognized

Ex Approvals

EAC Ex / IECEx / ATEX / UL Recognized / cUL Recognized / EAC Ex / cULus Recognized

Approval details

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Approvals

DNV GL	https://approvalfinder.dnvgl.com/	TAE000010T

CSA	http://www.csagroup.org/services-industries/product-listing/	13631

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

PRS	http://www.prs.pl/	TE/2107/880590/16

BV	http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	37796/B0 BV

LR	http://www.lr.org/en	12/20038 (E3)

NK	http://www.classnk.or.jp/hp/en/	14ME0913

ABS	http://www.eagle.org/eagleExternalPortalWEB/	16-HG1591536-PDA

UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425

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Approvals

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	B	C
Nominal voltage UN	600 V	600 V
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mm²/AWG/kcmil	20-8	20-8

IECEE CB Scheme		http://www.iecee.org/	DE1-57203

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

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40035239

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

EAC		EAC-Zulassung

EAC		RU C-DE.AI30.B.01102

RS		http://www.rs-head.spb.ru/en/index.php	17.00013.272

cULus Recognized	

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