Feed-through terminal block - UK 10 N-FE - 3048277

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 57 A, connection method: Screw connection, number of connections: 2, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 10.2 mm, color: black/yellow, mounting type: NS 35/7,5, NS 35/15, NS 32

Your advantages

- All universal terminal blocks in the UK... series can also be used in the Ex e area according to IEC/EN 60079 as standard
- The corresponding EC-type examination numbers for Ex approval can be found in the technical connection data

Key Commercial Data

Packing unit	50 pc
GTIN	4 046356 762670
GTIN	4046356762670

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	10 mm²
Color	black/yellow
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	1.82 W
Designation	Level 1 above 1 below 1
Maximum load current	76 A (with 16 mm² conductor cross section)

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Technical data

General

Nominal current I_N	57 A
Nominal voltage U_N	800 V
Open side panel	Yes
Shock protection test specification	IEC 60529:2001-02
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 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
	10 mm² / 2 kg
	16 mm² / 2.9 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.5 mm²
Tractive force setpoint	20 N
Conductor cross section tensile test	10 mm²
Tractive force setpoint	90 N
Conductor cross section tensile test	16 mm²
Tractive force setpoint	100 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 32/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	10 mm²
Short-time current	1.2 kA
Conductor cross section short circuit testing	16 mm²
Short-time current	1.92 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
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

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Technical data

General

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	10.2 mm
End cover width	1.8 mm
Length	42.5 mm
Height NS 35/7,5	47.3 mm
Height NS 35/15	54.8 mm
Height NS 32	52.3 mm

Connection data

Connection method	Screw connection
Screw thread	M4
Stripping length	10 mm
Tightening torque, min	1.5 Nm
Tightening torque max	1.8 Nm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	16 mm²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	10 mm²
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	8
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	10 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

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Technical data

Connection data

Cross section with insertion bridge, solid max.	10 mm²
Cross section with insertion bridge, stranded max.	10 mm²
2 conductors with same cross section, solid min.	0.5 mm²
2 conductors with same cross section, solid max.	4 mm²
2 conductors with same cross section, stranded min.	0.5 mm²
2 conductors with same cross section, stranded max.	4 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.	6 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	2.5 mm²
Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	16 mm²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	10 mm²
Internal cylindrical gage	B6

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
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
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Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

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Circuit diagram



Approvals

Approvals

Approvals

DNV GL / CSA / LR / KR / NK / UL Recognized / cUL Recognized / EAC / RS / cULus Recognized

Ex Approvals

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

Approval details

DNV GL	https://approvalfinder.dnvgl.com/	TAE00001CT

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

	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	65 A	65 A
mm²/AWG/kcmil	24-6	24-6

LR	http://www.lr.org/en	96/20013

KR	http://www.krs.co.kr/eng/main/main.aspx	HMB17372-EL001

NK	http://www.classnk.or.jp/hp/en/	09 ME 141

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Approvals

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

		B	C
Nominal voltage UN	600 V	600 V	600 V
Nominal current IN	65 A	65 A	65 A
mm²/AWG/kcmil	24-6	24-6	24-6

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

		B	C
Nominal voltage UN	600 V	600 V	600 V
Nominal current IN	65 A	65 A	65 A
mm²/AWG/kcmil	24-6	24-6	24-6

EAC		RU C-DE.A*30.B.01742

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

cULus Recognized	

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