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Feed-through terminal block - UK 5-TWIN BK - 3048535


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1-level terminal block with double connection on one side, cross section: 0.2 - 4 mm², AWG: 24 - 12, width: 6.2 mm, color: Black



Key Commercial Data

Packing unit	50 STK
GTIN	 4 046356 013147
GTIN	4046356013147

Technical data

General

Number of positions	1
Number of levels	2
Number of connections	3
Potentials	1
Nominal cross section	4 mm ²
Color	black
Insulating material	PA
Flammability rating according to UL 94	V2
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	1.02 W (the value is multiplied when connecting multiple levels)
Maximum load current	32 A (in case of a 4 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal current I _N	32 A (with 4 mm ² conductor cross section)

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Technical data

General

Nominal voltage U_N	500 V (With tightened clamping screws)
Open side panel	Yes
Shock protection test specification	IEC 60529:2001-02
Back of the hand protection	guaranteed
Finger protection	guaranteed
Note regarding shock protection	Only with closed clamping unit
Result of surge voltage test	Test passed
Surge voltage test setpoint	7.3 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 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	0.25 mm ² / 0.3 kg
	4 mm ² / 0.9 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.2 mm ²
Tractive force setpoint	10 N
Conductor cross section tensile test	4 mm ²
Tractive force setpoint	60 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35/NS 32
Setpoint	1 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	4 mm ²
Short-time current	0.48 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)	125 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C

Dimensions

Width	6.2 mm
End cover width	2 mm
Length	50.5 mm
Height NS 35/7,5	47 mm

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Technical data

Dimensions

Height NS 35/15	54.5 mm
Height NS 32	52 mm

Connection data

Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	4 mm ²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm ²
Cross section with insertion bridge, solid max.	4 mm ²
Cross section with insertion bridge, stranded max.	4 mm ²
2 conductors with same cross section, solid min.	0.2 mm ²
2 conductors with same cross section, solid max.	1.5 mm ²
2 conductors with same cross section, stranded min.	0.2 mm ²
2 conductors with same cross section, stranded max.	1.5 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
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm ²
Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	4 mm ²
Stripping length	8 mm
Internal cylindrical gage	A4
Screw thread	M3

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Technical data

Connection data

Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

Standards and Regulations

Connection in acc. with standard	CUL
	IEC 60947-7-1
Flammability rating according to UL 94	V2

Environmental Product Compliance

REACH SVHC	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

Circuit diagram



Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / KEMA-KEUR / IECCEB Scheme / cULus Recognized

Ex Approvals

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

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
Nominal voltage UN	150 V		
Nominal current IN	30 A		
mm ² /AWG/kcmil	30-10		

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Approvals

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Nominal voltage UN	150 V		
Nominal current IN	30 A		
mm ² /AWG/kcmil	30-10		

EAC		EAC-Zulassung
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KEMA-KEUR		http://www.dekra-certification.com	71-102982
Nominal voltage UN	500 V		
Nominal current IN	32 A		
mm ² /AWG/kcmil	4		

IECEE CB Scheme		http://www.iecee.org/	NL-39914_A1
Nominal voltage UN	500 V		
Nominal current IN	32 A		
mm ² /AWG/kcmil	4		

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm
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