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Feed-through terminal block - STU 35/ 4X10 - 3033126

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Feed-through terminal block, Connection method: Spring-cage connection, Cross section: 0.2 mm² - 10 mm², AWG: 24 - 8, Width: 16.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Why buy this product

- The STU 35/4x10 spring-cage hybrid terminal block is used to divide a 35 mm² supply line into four 10 mm² connections
- Can be consistently bridged to standard terminal blocks in the ST spring-cage terminal block series
- Supplied using a 35 mm² screw connection
- The system-internal distribution is via four spring-cage connections with a nominal cross section of 10 mm²
- The double bridge shaft supports further potential distributions

Key Commercial Data

Packing unit	25 STK
GTIN	 4 046356 094078

Technical data

General

Number of levels	1
Number of connections	5
Nominal cross section	35 mm ²
Color	gray
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
Ambient temperature (operation)	-60 °C ... 130 °C
Connection method	Spring-cage connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	41 A (In case of a 10 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)

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Technical data

General

Nominal current I_N	41 A
Nominal voltage U_N	1000 V
Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	125 A (with 50 mm ² conductor cross section)
Nominal current I_N	125 A
Nominal voltage U_N	1000 V
Open side panel	No
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 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	1.5 mm ² / 0.4 kg
	35 mm ² / 6.8 kg
	50 mm ² / 9.5 kg
Tensile test result	Test passed
Conductor cross section tensile test	1.5 mm ²
Tractive force setpoint	40 N
Conductor cross section tensile test	35 mm ²
	50 mm ²
Tractive force setpoint	236 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35/7.5
Setpoint	10 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 1.6 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	10 mm ²
Short-time current	1.2 kA
Conductor cross section short circuit testing	6 mm ²
Short-time current	0.72 kA
Result of aging test	Test passed

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General

Ageing test for screwless modular terminal block temperature cycles	192
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.02 g^2/Hz
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
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

Dimensions

Width	16.2 mm
Length	86 mm
Height NS 35/7,5	46.8 mm
Height NS 35/15	54.3 mm

Connection data

Connection method	Spring-cage connection
Connection in acc. with standard	IEC 60947-7-1
Stripping length	12 mm
Conductor cross section solid min.	0.2 mm^2
Conductor cross section solid max.	10 mm^2
Conductor cross section AWG min.	24
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.2 mm^2
Conductor cross section flexible max.	6 mm^2
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm^2

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Technical data

Connection data

Conductor cross section flexible, with ferrule without plastic sleeve max.	6 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.	6 mm ²
Conductor cross section flexible, with TWIN ferrule min.	0.5 mm ²
Conductor cross section flexible, with TWIN ferrule max.	1.5 mm ²
Nominal current I _N	41 A
Maximum load current	41 A (In case of a 10 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage U _N	1000 V
Internal cylindrical gage	A5
Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Screw thread	M6
Tightening torque, min	3.2 Nm
Tightening torque max	3.7 Nm
Stripping length	18 mm
Conductor cross section solid min.	1.5 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	1/0
Conductor cross section flexible min.	1.5 mm ²
Conductor cross section flexible max.	35 mm ²
Min. AWG conductor cross section, flexible	16
Max. AWG conductor cross section, flexible	2
Conductor cross section flexible, with ferrule without plastic sleeve min.	1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	35 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	1.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	35 mm ²
Conductor cross section flexible, with TWIN ferrule min.	1.5 mm ²
Conductor cross section flexible, with TWIN ferrule max.	10 mm ²
2 conductors with same cross section, solid min.	1.5 mm ²
2 conductors with same cross section, solid max.	16 mm ²
2 conductors with same cross section, stranded min.	1.5 mm ²
2 conductors with same cross section, stranded max.	10 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	1.5 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	10 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	1.5 mm ²

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2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	10 mm ²
Nominal current I _N	125 A
Maximum load current	125 A (with 50 mm ² conductor cross section)
Nominal voltage U _N	1000 V

Standards and Regulations

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

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
eCl@ss 9.0	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

Approvals

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Approvals


Approvals

UL Recognized / EAC / EAC / BV

Ex Approvals

Approvals submitted

Approval details

UL Recognized 			
		B	C
mm ² /AWG/kcmil	14-2	14-2	
Nominal current I _N	115 A	115 A	
Nominal voltage U _N	600 V	600 V	

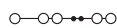
EAC

EAC

BV

Drawings

Circuit diagram



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