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## Feed-through terminal block - STU 10/ 4X2,5 - 3033139

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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, AWG: 20 - 6, Width: 10.3 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Why buy this product

- The STU 10/4x2,5 spring-cage hybrid terminal block is a space-saving potential distributor that distributes a 10 mm<sup>2</sup> supply line to four 2.5 mm<sup>2</sup> connections
- The system-internal distribution is via four spring-cage connections with a nominal cross section of 2.5 mm<sup>2</sup>
- The double bridge shaft supports further potential distributions
- Supplied using a 10 mm<sup>2</sup> screw connection
- Can be consistently bridged to standard terminal blocks in the ST spring-cage terminal block series

### Key Commercial Data

Packing unit	50 STK
GTIN	 4 046356 148030

### Technical data

#### General

Number of levels	1
Number of connections	5
Nominal cross section	10 mm <sup>2</sup>
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
Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	57 A
Nominal current I <sub>N</sub>	55 A
Nominal voltage U <sub>N</sub>	800 V

# Feed-through terminal block - STU 10/ 4X2,5 - 3033139

## Technical data

### General

Connection method	Spring-cage connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	24 A
Nominal current $I_N$	24 A
Nominal voltage $U_N$	800 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 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	0.08 mm <sup>2</sup> / 0.1 kg
	2.5 mm <sup>2</sup> / 0.7 kg
	4 mm <sup>2</sup> / 0.9 kg
	0.5 mm <sup>2</sup> / 0.3 kg
	10 mm <sup>2</sup> / 2 kg
	16 mm <sup>2</sup> / 2.9 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.08 mm <sup>2</sup>
Tractive force setpoint	5 N
Conductor cross section tensile test	2.5 mm <sup>2</sup>
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm <sup>2</sup>
Tractive force setpoint	60 N
Conductor cross section tensile test	0.5 mm <sup>2</sup>
Tractive force setpoint	20 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	≤ 1.6 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	2.5 mm <sup>2</sup>

# Feed-through terminal block - STU 10/ 4X2,5 - 3033139

## Technical data

### General

Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm <sup>2</sup>
Short-time current	0.48 kA
Result of aging test	Test passed
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 2, bogie mounted
Test frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	3.12 g
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	30g
Shock duration	18 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))	125 °C
Static insulating material application in cold	-60 °C

### Dimensions

Width	10.3 mm
Length	68 mm
Height NS 35/7,5	48.3 mm
Height NS 35/15	55.8 mm
End cover width	2.2 mm

### Connection data

Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Screw thread	M4
Tightening torque, min	1.5 Nm
Tightening torque max	1.8 Nm
Stripping length	8 mm ... 10 mm
Conductor cross section solid min.	0.5 mm <sup>2</sup>

# Feed-through terminal block - STU 10/ 4X2,5 - 3033139

## Technical data

### Connection data

Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Conductor cross section flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	16 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	6
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	10 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	10 mm <sup>2</sup>
2 conductors with same cross section, solid min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, solid max.	4 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	4 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	6 mm <sup>2</sup>
Nominal current I <sub>N</sub>	55 A
Maximum load current	57 A
Nominal voltage U <sub>N</sub>	800 V
Internal cylindrical gage	A6
Connection method	Spring-cage connection
Connection in acc. with standard	IEC 60947-7-1
Stripping length	8 mm ... 10 mm
Conductor cross section solid min.	0.08 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.08 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	12
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>

# Feed-through terminal block - STU 10/ 4X2,5 - 3033139

## Technical data

### Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.14 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm <sup>2</sup>
Nominal current I <sub>N</sub>	24 A
Maximum load current	24 A
Nominal voltage U <sub>N</sub>	800 V

### Standards and Regulations

Connection in acc. with standard	CUL
	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

# Feed-through terminal block - STU 10/ 4X2,5 - 3033139

## Approvals

Approvals

UL Recognized / cUL Recognized / EAC / EAC / BV / cULus Recognized

Ex Approvals

Approvals submitted

## Approval details

UL Recognized			
		B	C
mm <sup>2</sup> /AWG/kcmil	20-8	20-8	
Nominal current I <sub>N</sub>	50 A	50 A	
Nominal voltage U <sub>N</sub>	600 V	600 V	

cUL Recognized			
		B	C
mm <sup>2</sup> /AWG/kcmil	20-8	20-8	
Nominal current I <sub>N</sub>	50 A	50 A	
Nominal voltage U <sub>N</sub>	600 V	600 V	

EAC

EAC

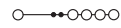
BV

cULus Recognized			
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## Drawings

## Feed-through terminal block - STU 10/ 4X2,5 - 3033139

Circuit diagram



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