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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Feed-through terminal block, Connection method: Screw connection, Cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, Width: 10.3 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- The STU 10/4x2,5 spring-cage hybrid terminal block is a space-saving potential distributor that distributes a 10 mm² supply line to four 2.5 mm² connections
- The system-internal distribution is via four spring-cage connections with a nominal cross section of 2.5 mm²
- The double bridge shaft supports further potential distributions
- Supplied using a 10 mm² screw connection
- Can be consistently bridged to standard terminal blocks in the ST spring-cage terminal block series

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
Weight per Piece (excluding packing)	21.41 g
Custom tariff number	85369010
Country of origin	Poland

Technical data

General

Number of levels	1
Number of connections	5
Nominal cross section	10 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Pollution degree	3

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

Technical data

General

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_N	55 A
Nominal voltage U_N	800 V
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	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.08 mm² / 0.1 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
	0.5 mm² / 0.3 kg
	10 mm² / 2 kg
	16 mm² / 2.9 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.08 mm²
Tractive force setpoint	5 N
Conductor cross section tensile test	2.5 mm²
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm²
Tractive force setpoint	60 N

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

Technical data

General

Conductor cross section tensile test	0.5 mm²
Tractive force setpoint	20 N
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	5 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 1.6 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	2.5 mm²
Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm²
Short-time current	0.48 kA
Short circuit stability result	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of aging test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	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_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2$/Hz
Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise 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.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C

Dimensions

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

Technical data

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 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.	16 mm²
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 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.	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, ferrules without plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	2.5 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
Nominal current I_N	55 A
Maximum load current	57 A

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

Technical data

Connection data

Nominal voltage U_N	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 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.08 mm²
Conductor cross section flexible max.	2.5 mm²
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 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.14 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm²
Nominal current I_N	24 A
Maximum load current	24 A
Nominal voltage U_N	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

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

Classifications

eCl@ss

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

Approvals

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

Ex Approvals

Approvals submitted

Approval details

UL Recognized

	B	C
mm²/AWG/kcmil	20-8	20-8

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

Approvals

	B	C
Nominal current IN	50 A	50 A
Nominal voltage UN	600 V	600 V

cUL Recognized

	B	C
mm²/AWG/kcmil	20-8	20-8
Nominal current IN	50 A	50 A
Nominal voltage UN	600 V	600 V

EAC

EAC

BV

cULus Recognized

Drawings

Circuit diagram