

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 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

package_quantity	50
GTIN	4046356148030

Technical data

General

Number of levels	1
Number of connections	1
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

General

Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I _N	55 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

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

Technical data

General

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 mm ² / 0.1 kg
Bending test conductor cross section/weight	2.5 mm ² / 0.7 kg
Bending test conductor cross section/weight	4 mm ² / 0.9 kg
Bending test conductor cross section/weight	0.5 mm ² / 0.3 kg
Bending test conductor cross section/weight	10 mm ² / 2 kg
Bending test conductor cross section/weight	16 mm ² / 2.9 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.08 mm ²
Tractive force setpoint	5 N
Conductor cross section tensile test	2.5 mm ²
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm ²
Tractive force setpoint	60 N
Conductor cross section tensile test	0.5 mm ²
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 mm ²
Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm ²
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

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

Technical data

General

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	0.8 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	5 g
Shock duration	30 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))	120 °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
Stripping length	10 mm
Internal cylindrical gage	A6
Tightening torque, min	1.5 Nm
Tightening torque max	1.8 Nm
Conductor cross section solid min.	0.5 mm^2
Conductor cross section solid max.	16 mm^2
Conductor cross section stranded min.	0.5 mm^2
Conductor cross section stranded max.	16 mm^2
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.5 mm^2
Value	0.5 mm^2
Conductor cross section stranded, with ferrule without plastic sleeve max.	10 mm^2
Value	10 mm^2
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.5 mm^2

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

Technical data

Connection data

Value	0.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	10 mm ²
Value	10 mm ²
2 conductors with same cross section, solid min.	0.5 mm ²
2 conductors with same cross section, solid max.	4 mm ²
2 conductors with same cross section, stranded min.	0.5 mm ²
2 conductors with same cross section, stranded max.	4 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.5 mm ²
Value	0.5 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	2.5 mm ²
Value	2.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm ²
Value	0.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	6 mm ²
Value	6 mm ²

Connection data

Connection method	Spring-cage connection
Stripping length	10 mm
Conductor cross section solid min.	0.08 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	12
Conductor cross section stranded min.	0.08 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm ²
Value	0.14 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm ²
Value	2.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm ²
Value	0.14 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	2.5 mm ²
Value	2.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm ²
Value	0.5 mm ²

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Technical data

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

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

UL Recognized / cUL Recognized / GOST / GOST / cULus Recognized /

Approval details

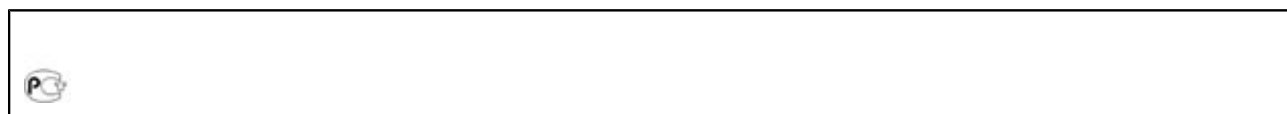
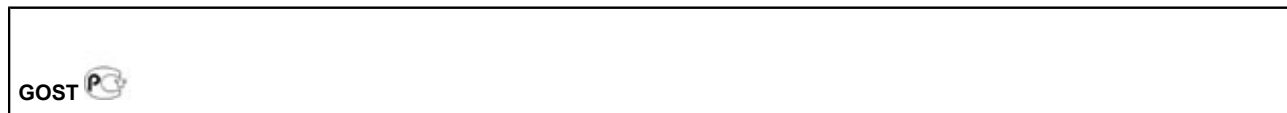
UL Recognized		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	50 A	50 A
mm ² /AWG/kcmil	20-8	20-8

cUL Recognized		
Usegroups	B	C
Nominal voltage UN	600 V	600 V

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approvals

Usegroups	B	C
Nominal current IN	50 A	50 A
mm ² /AWG/kcmil	20-8	20-8



accessories

End cover

D-STU 10/ 4X2,5 - 3033197



DP PS-5 - 3036725



Screwdriver tools

SZS 1,0X4,0 VDE - 1205066



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

accessories

SZF 2-0,8X4,0 - 1204520



SZF 1-0,6X3,5 - 1204517



Labeled terminal marker

WST 2,5 - 3030941



ZB 5 CUS - 0824962



UC-TM 5 CUS - 0824581



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accessories

UCT-TM 5 CUS - 0829595



ZBF 5 CUS - 0825025



UC-TMF 5 CUS - 0824638



UCT-TMF 5 CUS - 0829658



ZB 10 CUS - 0824941



UC-TM 10 CUS - 0824605



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accessories

UCT-TM 10 CUS - 0829623



ZBF10 CUS - 0825031



UC-TMF 10 CUS - 0824662



UCT-TMF 10 CUS - 0829679



Warning label printed

WS UT 10 - 3047361



Pick-off terminal block

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

accessories

AGK 4-UT 10 - 3047112



Bridge

RB ST (2,5/4)-1,5 - 3038943



FBS 2-5 - 3030161



FBS 3-5 - 3030174



FBS 4-5 - 3030187



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accessories

FBS 5-5 - 3030190



FBS 10-5 - 3030213



FBS 20-5 - 3030226



Documentation

ST-IL - 3039900



Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



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accessories

NS 35/ 7,5 UNPERF 2000MM - 0801681



NS 35/ 7,5 WH PERF 2000MM - 1204119



NS 35/ 7,5 WH UNPERF 2000MM - 1204122



NS 35/ 7,5 AL UNPERF 2000MM - 0801704



NS 35/ 7,5 ZN PERF 2000MM - 1206421



NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



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

accessories

NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



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

accessories

NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



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accessories

NS 35/15-2,3 UNPERF 2000MM - 1201798



Terminal marking

ZB 5 :UNBEDRUCKT - 1050004



UC-TM 5 - 0818108



UCT-TM 5 - 0828734



ZBF 5:UNBEDRUCKT - 0808642



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accessories

UC-TMF 5 - 0818153



UCT-TMF 5 - 0828744



ZB 10:UNBEDRUCKT - 1053001



UC-TM 10 - 0818069



UCT-TM 10 - 0829142



ZBF10:UNBEDRUCKT - 0809997



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

accessories

UC-TMF 10 - 0818124



UCT-TMF 10 - 0829204



Test plug terminal block

MPS-MT - 0201744



PS-5 - 3030983



PS-5/2,3MM RD - 3038723



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

accessories

PAI-4-FIX-5/6 BU - 3035975



PAI-4-FIX-5/6 OG - 3035974



PAI-4-FIX-5/6 YE - 3035977



PAI-4-FIX-5/6 RD - 3035976



PAI-4-FIX-5/6 GN - 3035978



PAI-4-FIX-5/6 BK - 3035980



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accessories

PAI-4-FIX-5/6 GY - 3035982



PAI-4-FIX-5/6 VT - 3035979



PAI-4-FIX-5/6 BN - 3035981



Insulating sleeve

MPS-IH WH - 0201663



MPS-IH RD - 0201676



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accessories

MPS-IH BU - 0201689



MPS-IH YE - 0201692



MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



ISH 2,5/0,2 - 3002843



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accessories

ISH 2,5/0,5 - 3002856



ISH 2,5/1,0 - 3002869



End block

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



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

accessories

E/UK - 1201442



E/UK 1 - 1201413



Drawings

Circuit diagram



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