

Potential collective terminal - STU 10/ 4X2,5 BU - 3033142

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Potential collective terminal, nom. voltage: 800 V, nominal current: 55 A, connection method: Screw connection, Spring-cage connection, number of connections: 5, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 10.3 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Your advantages

- ✓ 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
- ✓ Supplied using a 10 mm² screw connection
- ✓ The double bridge shaft supports further potential distributions
- ✓ Can be consistently bridged to standard terminal blocks in the ST spring-cage terminal block series
- ✓ The system-internal distribution is via four spring-cage connections with a nominal cross section of 2.5 mm²



COMPLETE

Key Commercial Data

Packing unit	50 pc
GTIN	
GTIN	4046356148023

Technical data

General

Number of levels	1
Number of connections	5
Nominal cross section	10 mm ²
Color	blue
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
Maximum power dissipation for nominal condition	1.82 W

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Technical data

General

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	Yes
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
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

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

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Connection data

Stripping length	8 mm ... 10 mm
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	16 mm ²
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 ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	10 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	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
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	2.5 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.	6 mm ²
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 ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.08 mm ²
Conductor cross section flexible max.	2.5 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.	0.14 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm ²

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2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.14 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm ²

Standards and Regulations

Connection in acc. with standard	CUL
	IEC 60947-7-1
	IEC 60947-7-1
Flammability rating according to UL 94	V0
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Circuit diagram



Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

PRS		http://www.prs.pl/	TE/2156/880590/17
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Approvals

BV		http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	40934/A0 BV
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
		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		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
		B	C
Nominal voltage UN	600 V	600 V	
Nominal current IN	50 A	50 A	
mm ² /AWG/kcmil	20-8	20-8	

EAC		EAC-Zulassung
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EAC		RU C- DE.A*30.B.01742
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cULus Recognized		
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