

Sensor/actuator terminal block - STIO 2,5/3-2B/L - 3209015

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Sensor/actuator terminal block, Connection method: Spring-cage connection, Cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- Three-conductor output terminal block of the same shape with PE connection in the lower level for wiring actuators
- Power terminal blocks can be located at any point on the terminal strip for supply or extension purposes
- Versions with LED for indicating the switching states
- Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- Potential is supplied via the STIO-IN power terminal blocks
- The upper level is for signal wiring, whereas the two lower levels are used to distribute the positive and negative potential
- For space and time-saving wiring of three-conductor initiators and actuators

Key commercial data

| | |
|------------------|---------------|
| package_quantity | 50 |
| GTIN | 4046356143325 |

Technical data

General

| | |
|---|------|
| Number of levels | 3 |
| Number of connections | 4 |
| Color | gray |
| Insulating material | PA |
| Inflammability class according to UL 94 | V0 |

General

| | |
|-------------------------------------|-------------------------------------|
| Rated surge voltage | 4 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 | 18 A |
| Nominal voltage U _N | 250 V |
| Open side panel | ja |
| Shock protection test specification | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection | guaranteed |

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Technical data

General

| | |
|---|-------------------------------|
| Finger protection | guaranteed |
| Surge voltage test setpoint | 4.8 kV |
| Result of surge voltage test | Test passed |
| Power frequency withstand voltage setpoint | 1.5 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 |
| 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 |
| Tensile test result | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 1 N |
| Result of tight fit test | Test passed |
| Requirements, voltage drop | ≤ 3.2 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 |
| 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 |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 120 °C |

Dimensions

| | |
|------------------|---------|
| Width | 5.2 mm |
| Length | 75 mm |
| Height NS 35/7,5 | 44.5 mm |
| Height NS 35/15 | 52 mm |

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Technical data

Connection data

| | |
|---|------------------------|
| Conductor cross section solid min. | 0.08 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section stranded min. | 0.08 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 28 |
| Conductor cross section AWG/kcmil max | 12 |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.14 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 2.5 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve min. | 0.14 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve max. | 2.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm ² |
| Connection method | Spring-cage connection |
| Stripping length | 10 mm |
| Internal cylindrical gage | A3 |

classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27141118 |
| eCl@ss 4.1 | 27141118 |
| eCl@ss 5.0 | 27141118 |
| eCl@ss 5.1 | 27141118 |
| eCl@ss 6.0 | 27141128 |
| eCl@ss 7.0 | 27141128 |
| eCl@ss 8.0 | 27141128 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000900 |
| ETIM 3.0 | EC000900 |
| ETIM 4.0 | EC000900 |
| ETIM 5.0 | EC000900 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11 | 39121410 |
| UNSPSC 12.01 | 39121410 |
| UNSPSC 13.2 | 39121410 |

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approvals

UL Recognized / cUL Recognized / cULus Recognized /

Approval details

| UL Recognized | | | |
|----------------------------|-------|-------|-------|
| Usegroups | B | C | D |
| Nominal voltage UN | 300 V | 150 V | 300 V |
| Nominal current IN | 10 A | 18 A | 10 A |
| mm ² /AWG/kcmil | 28-12 | 28-12 | 28-12 |

| cUL Recognized | | | |
|----------------------------|-------|-------|-------|
| Usegroups | B | C | D |
| Nominal voltage UN | 300 V | 150 V | 300 V |
| Nominal current IN | 10 A | 18 A | 10 A |
| mm ² /AWG/kcmil | 28-12 | 28-12 | 28-12 |

| | | | |
|-------------------------|--|--|--|
| cULus Recognized | | | |
|-------------------------|--|--|--|

accessories

End cover

D-STIO 2,5/3 - 3209112



Documentation

ST-IL - 3039900



Sensor/actuator terminal block - STIO 2,5/3-2B/L - 3209015

accessories

Bridge

FBS 2-5 - 3030161



FBS 3-5 - 3030174



FBS 4-5 - 3030187



FBS 5-5 - 3030190



FBS 10-5 - 3030213



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accessories

FBS 20-5 - 3030226



FBS 50-5 - 3038930



FBS 2-5 BU - 3036877



FBS 3-5 BU - 3036880



FBS 4-5 BU - 3036893



FBS 5-5 BU - 3036903



Sensor/actuator terminal block - STIO 2,5/3-2B/L - 3209015

accessories

FBS 10-5 BU - 3036916



FBS 20-5 BU - 3036929



FBS 50-5 BU - 3032114



FBS 2-5 GY - 3038969



FBS 3-5 GY - 3038972



Sensor/actuator terminal block - STIO 2,5/3-2B/L - 3209015

accessories

FBS 4-5 GY - 3038985



FBS 5-5 GY - 3038998



FBS 10-5 GY - 3039007



FBS 20-5 GY - 3038671



FBS 50-5 GY - 3032127



Mounting rail

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accessories

NS 35/ 7,5 PERF 2000MM - 0801733



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



Sensor/actuator terminal block - STIO 2,5/3-2B/L - 3209015

accessories

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



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



NS 35/ 7,5 CAP - 1206560



Terminal marking

ZB 5 :UNBEDRUCKT - 1050004



UC-TM 5 - 0818108



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accessories

UCT-TM 5 - 0828734



ZBF 5:UNBEDRUCKT - 0808642



UC-TMF 5 - 0818153



UCT-TMF 5 - 0828744



Labeled terminal marker

ZB 5 CUS - 0824962



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accessories

UC-TM 5 CUS - 0824581



UCT-TM 5 CUS - 0829595



ZBF 5 CUS - 0825025



UC-TMF 5 CUS - 0824638



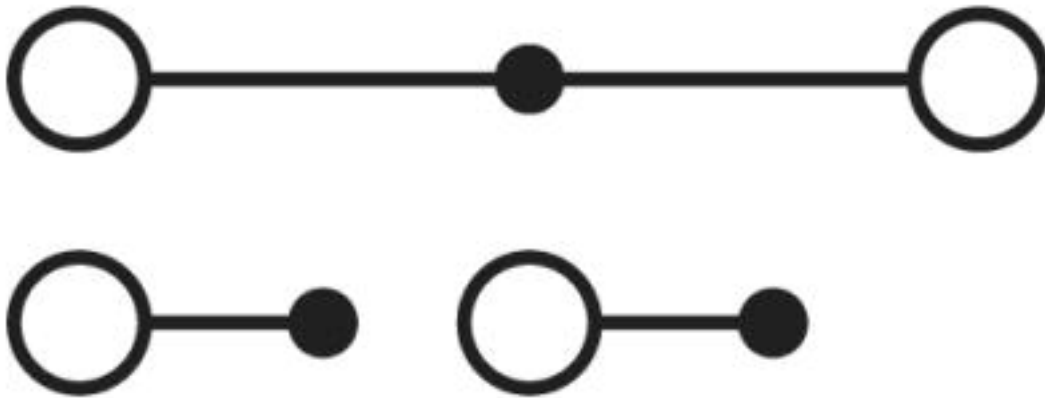
UCT-TMF 5 CUS - 0829658



Drawings

Sensor/actuator terminal block - STIO 2,5/3-2B/L - 3209015

Circuit diagram



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