

STIO-IN 2,5/3-PE OG - Installation ground terminal block



3209086

<https://www.phoenixcontact.com/nz/products/3209086>

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 documentation. Our general terms of use for downloads are valid.



Installation ground terminal block, nom. voltage: 250 V, nominal current: 30 A, number of connections: 4, connection method: Spring-cage connection, Rated cross section: 2.5 mm², cross section: 0.08 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: orange

Your advantages

- 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
- Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- Versions with LED for indicating the switching states
- 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

Commercial data

Item number	3209086
Packing unit	25 pc
Minimum order quantity	25 pc
Sales key	BE2117
Product key	BE2117
Catalog page	Page 214 (C-1-2019)
GTIN	4046356143288
Weight per piece (including packing)	14.991 g
Weight per piece (excluding packing)	14.171 g
Country of origin	TR

STIO-IN 2,5/3-PE OG - Installation ground terminal block



3209086

<https://www.phoenixcontact.com/nz/products/3209086>

Technical data

Product properties

Product type	Sensor/actuator terminal block
Number of connections	4
Number of rows	3

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	2.5 mm ²
Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Conductor cross section rigid	0.08 mm ² ... 4 mm ²
Cross section AWG	28 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	28 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	30 A (For central infeed and 4 mm ² conductor cross section)
	18 A (For single-sided infeed and 2.5 mm ² conductor cross section)
Maximum load current	30 A (with 4 mm ² conductor cross section)
Nominal voltage	250 V
Nominal cross section	2.5 mm ²

Dimensions

Width	10.4 mm
End cover width	2.2 mm
Height	75 mm
Depth on NS 35/7,5	44.5 mm
Depth on NS 35/15	52 mm

STIO-IN 2,5/3-PE OG - Installation ground terminal block



3209086

<https://www.phoenixcontact.com/nz/products/3209086>

Material specifications

Color	orange
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

Electrical tests

Surge voltage test

Test voltage setpoint	4.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm ²	0.3 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.5 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
-----------------	----

Mechanical tests

Mechanical strength

Result	Test passed
--------	-------------

Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	1 N

STIO-IN 2,5/3-PE OG - Installation ground terminal block



3209086

<https://www.phoenixcontact.com/nz/products/3209086>

Result	Test passed
--------	-------------

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.08 mm ² / 0.1 kg
	2.5 mm ² / 0.7 kg
	4 mm ² / 0.9 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
----------------------------------	-----------------------------

Mounting

Mounting type	NS 35/7,5
	NS 35/15

STIO-IN 2,5/3-PE OG - Installation ground terminal block

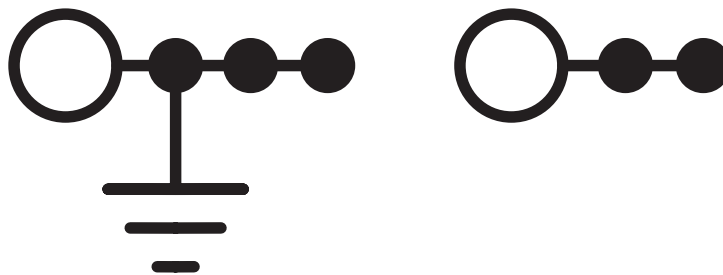


3209086

<https://www.phoenixcontact.com/nz/products/3209086>

Drawings

Circuit diagram



STIO-IN 2,5/3-PE OG - Installation ground terminal block



3209086

<https://www.phoenixcontact.com/nz/products/3209086>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nz/products/3209086>



EAC

Approval ID: RU C-DE.A*30.B.01742



cULus Recognized

Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	10 A	28 - 12	-
Use group C				
	150 V	20 A	28 - 12	-
Use group D				
	300 V	10 A	28 - 12	-



EAC

Approval ID: RU C-DE.BL08.B.00644

STIO-IN 2,5/3-PE OG - Installation ground terminal block



3209086

<https://www.phoenixcontact.com/nz/products/3209086>

Classifications

ECLASS

ECLASS-11.0	27141128
ECLASS-12.0	27141128
ECLASS-13.0	27250112

ETIM

ETIM 9.0	EC000900
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

STIO-IN 2,5/3-PE OG - Installation ground terminal block



3209086
<https://www.phoenixcontact.com/nz/products/3209086>

Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Unit 15C, 906-930 Great South Road, Penrose
Auckland 1061
0508 474 636
sales@phoenixcontact.co.nz