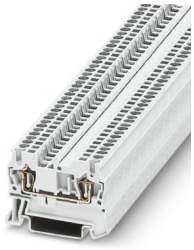
ST 1,5 WH - Feed-through terminal block

3037054

https://www.phoenixcontact.com/us/products/3037054

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Spring-cage connection, Rated cross section: 1.5 mm^2, 1 level, cross section: 0.08 mm^2 - 1.5 mm^2, mounting type: NS 35/7,5, NS 35/15, color: white

Commercial data

Item number	3037054
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2111
GTIN	4017918599485
Weight per piece (including packing)	5.1 g
Weight per piece (excluding packing)	5.1 g
Customs tariff number	85369010
Country of origin	DE

Technical data

Product properties

Product type	Feed-through terminal block
Number of connections	2
Number of rows	1
Potentials	1

Electrical properties

Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	2
Nominal cross section	1.5 mm²

1 level

Connection method	Spring-cage connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.08 mm² ... 1.5 mm²
Cross section AWG	28 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	0.08 mm² ... 1.5 mm²
Conductor cross-section, flexible [AWG]	28 ... 16 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm² ... 1.5 mm²
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² ... 1.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm² ... 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm²
Nominal cross section	1.5 mm²
Nominal current	17.5 A
Maximum load current	17.5 A (with 1.5 mm² conductor cross-section)
Nominal voltage	500 V

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔx II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 85 °C
Ex-certified accessories	3030417 D-ST 2,5
	3030721 ATP-ST 4
	1204504 SZF 0-0,4X2,5
	3022276 CLIPFIX 35-5

	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-4 / 3030116
	Plug-in bridge / FBS 3-4 / 3030129
	Plug-in bridge / FBS 4-4 / 3030132
	Plug-in bridge / FBS 5-4 / 3030145
	Plug-in bridge / FBS 10-4 / 3030158
	Plug-in bridge / FBS 20-4 / 3030352
Bridge data	16.5 A (1.5 mm²)
Ex temperature increase	40 K (19.4 A / 1.5 mm²)
for bridging with bridge	440 V
- At bridging between non-adjacent terminal blocks	352 V
- At bridging between non-adjacent terminal blocks via PE terminal block	352 V
- At cut-to-length bridging with cover	220 V
- At cut-to-length bridging with partition plate	275 V
Rated insulation voltage	400 V
output	(Permanent)

Ex level General

Rated voltage	440 V
Rated current	17.5 A
Maximum load current	17.5 A
Contact resistance	1.43 mΩ

Ex connection data General

Nominal cross section	1.5 mm²
Rated cross section AWG	16
Connection capacity rigid	0.08 mm² ... 1.5 mm²
Connection capacity AWG	28 ... 16
Connection capacity flexible	0.08 mm² ... 1.5 mm²
Connection capacity AWG	28 ... 16

Dimensions

Width	4.2 mm
Height	48.5 mm
Depth on NS 35/7,5	36.5 mm
Depth on NS 35/15	44 mm

Material specifications

Color	white (RAL 9010)
Flammability rating according to UL 94	V0
Insulating material	PA

Electrical tests

Surge voltage test

Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Result	Test passed

Power-frequency withstand voltage

Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes

Mechanical tests

Mechanical strength

Result	Test passed

Attachment on the carrier

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

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	0.02g²/Hz
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Semi-sinusoidal
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3

Test directions	X-, Y- and Z-axis (pos. and neg.)
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, not exceeding 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

Mounting

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

Classifications

ECLASS

ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	0.034 kg CO2e

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