

ST 1,5-TWIN GN - Feed-through terminal block



3037287

<https://www.phoenixcontact.com/us/products/3037287>

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 3, connection method: Spring-cage connection, Rated cross section: 1.5 mm², cross section: 0.08 mm² - 1.5 mm², mounting type: NS 35/7,5, NS 35/15, color: green

Commercial data

Item number	3037287
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2112
GTIN	4017918599683
Weight per piece (including packing)	6.337 g
Weight per piece (excluding packing)	5.858 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Product properties

Product type	Multi-conductor terminal block
Number of connections	3
Number of rows	1
Potentials	1

Data management status

Article revision	08
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Insulation characteristics

Overvoltage category	III
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Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	3
Nominal cross section	1.5 mm ²
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 mm ² ... 1.5 mm ²
Cross section AWG	28 ... 16 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm ² ... 1.5 mm ²
Conductor cross section, flexible [AWG]	28 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	17.5 A (with 1.5 mm ² conductor cross section)
Maximum load current	17.5 A (in case of a 1.5 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	500 V
Nominal cross section	1.5 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3030488 D-ST 2,5-TWIN 3030789 ATP-ST-TWIN

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List of bridges	3036602 DS-ST 2,5
	1204504 SZF 0-0,4X2,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
	Plug-in bridge / FBS 2-4 / 3030116
	Plug-in bridge / FBS 3-4 / 3030129
Bridge data	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
	16.5 A / 1.5 mm ²
	40 K (19.4 A / 1.5 mm ²)
Ex temperature increase	40 K (19.4 A / 1.5 mm ²)
Rated voltage	440 V
for bridging with bridge	440 V
- At bridging between non-adjacent terminal blocks	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 current	17.5 A
Maximum load current	17.5 A
Contact resistance	1.43 mΩ

Ex connection data General

Nominal cross section	1.5 mm ²
Rated cross section AWG	16
Connection capacity rigid	0.08 mm ² ... 1.5 mm ²
Connection capacity AWG	28 ... 16
Connection capacity flexible	0.08 mm ² ... 1.5 mm ²
Connection capacity AWG	28 ... 16

Dimensions

Width	4.2 mm
Height	60.5 mm
Depth on NS 35/7,5	36.5 mm
Depth on NS 35/15	44 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C

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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
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	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 1.5 mm ²	0.18 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.14 mm ² / 0.2 kg
	0.2 mm ² / 0.2 kg
	1.5 mm ² / 0.4 kg
Result	Test passed

Environmental and real-life conditions

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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):2018-05
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	3.12g
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	Half-sine
Acceleration	5g
Shock duration	30
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, 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
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Mounting

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

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3037287>

CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	15 A	26 - 14	-
Use group C				
	300 V	15 A	26 - 14	-

IECEE CB Scheme Approval ID: DE1-63027_A1				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	17.5 A	-	0.2 - 1.5

ClassNK NK Approval ID: 09 ME 140				
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VDE Zeichengenehmigung Approval ID: 40009031				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	17.5 A	-	0.2 - 1.5

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	15 A	26 - 14	-
Use group C				
	300 V	15 A	26 - 14	-
Use group D				
	600 V	5 A	26 - 14	-

DNV Approval ID: TAE00001CS				
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ATEX Approval ID: KEMA01ATEX2129U				
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	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Type examination certificate	440 V	17.5 A	-	0.08 - 1.5



EAC Ex
Approval ID: RU C-DE.HA91.B.00066



IEC Ex
Approval ID: IECEx KEM 06.0043U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	440 V	17.5 A	-	0.08 - 1.5



CCC
Approval ID: 2020322313000621



UKCA-EX
Approval ID: DEKRA 21UKEX0302U

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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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%

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