

UT 2,5-MTS-EX - Knife-disconnect terminal block



1277636

<https://www.phoenixcontact.com/sg/products/1277636>

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Knife-disconnect terminal block, connection method: Screw connection, Rated cross section: 2.5 mm², mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

- An extremely compact design
- Double bridge shaft enables individual potential distribution and supply

Commercial data

Item number	1277636
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	BE1131
GTIN	4063151469481
Weight per piece (including packing)	10.58 g
Weight per piece (excluding packing)	10.58 g
Customs tariff number	85369010
Country of origin	CN

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Technical data

Product properties

Product type	Disconnect terminal block
Area of application	Process industry
	Machine building
	Plant engineering
Number of connections	2
Number of rows	1

Data management status

Article revision	03
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	2
Nominal cross section	2.5 mm ²

Level 1 above 1 below 1

Screw thread	M3
Stripping length	10 mm
Internal cylindrical gage	A3
Nominal cross section	2.5 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 3 G Ex ec IIC Gc
Operating temperature range	-50 °C ... 125 °C
Operating cycles of the disconnect knife	100
Ex-certified accessories	3047141 D-UT 2,5/4-TWIN
	1205053 SZS 0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-5 / 3030161
	Plug-in bridge / FBS 3-5 / 3030174
	Plug-in bridge / FBS 4-5 / 3030187
	Plug-in bridge / FBS 5-5 / 3030190

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	Plug-in bridge / FBS 10-5 / 3030213
	Plug-in bridge / FBS 20-5 / 3030226
Bridge data	17.5 A / 2.5 mm ²
Rated voltage	440 V
output	(Permanent)

Ex level General

Rated current	18.5 A (2.5 mm ²)
Maximum load current	21.5 A (4 mm ²)
Contact resistance	0.27 mΩ

Ex connection data General

Torque range	0.5 Nm ... 0.6 Nm
Nominal cross section	2.5 mm ²
Rated cross section AWG	14
Connection capacity rigid	0.14 mm ² ... 4 mm ²
Connection capacity AWG	26 ... 12
Connection capacity flexible	0.14 mm ² ... 4 mm ²
Connection capacity AWG	26 ... 12
2 conductors with same cross section, solid	0.14 mm ² ... 1.5 mm ²
2 conductors with the same cross-section AWG rigid	26 ... 16
2 conductors with same cross section, stranded	0.14 mm ² ... 1.5 mm ²
2 conductors with the same cross-section AWG flexible	26 ... 16
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
Single conductor/terminal point, flexible, with ferrule, without plastic sleeve, AWG	26 ... 14

Dimensions

Width	5.2 mm
Height	56.8 mm
Depth on NS 35/7,5	47.5 mm
Depth on NS 35/15	55 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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

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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

Mechanical properties

Mechanical data

Open side panel	Yes
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Environmental and real-life conditions

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 %

Mounting

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

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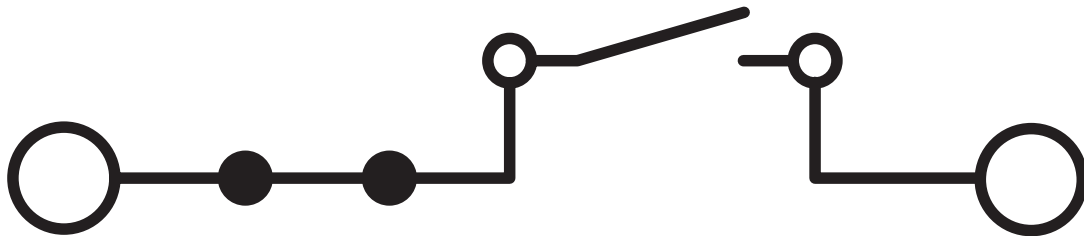


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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/1277636>

 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	16 A	26 - 12	-
Multi-conductor connection	300 V	10 A	26 - 16	-
Use group C				
	300 V	16 A	26 - 12	-
Multi-conductor connection	300 V	10 A	26 - 16	-
Use group D				
	300 V	10 A	26 - 12	-
Multi-conductor connection	300 V	10 A	26 - 16	-

 CSA Approval ID: 158887				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	16 A	26 - 12	-
Use group C				
	300 V	16 A	26 - 12	-
Use group D				
	300 V	10 A	26 - 12	-

 IECEx Approval ID: IECExUL13.0007U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	440 V	18.5 A	-	0.14 - 4

 ATEX Approval ID: DEMKO14ATEX1353U				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	440 V	18.5 A	-	0.14 - 4

 UKCA-EX Approval ID: UL22UKEX2452U				
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Classifications

ECLASS

ECLASS-11.0	27141126
ECLASS-12.0	27141126
ECLASS-13.0	27250108

ETIM

ETIM 9.0	EC000902
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	92d45b23-17a8-48a4-9dc4-5f0622052bab

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