UT 35 IB BU - Feed-through terminal block

3047730

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Feed-through terminal block, with Allen screws, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Screw connection, Rated cross section: 35 mm^2, cross section: 1.5 mm^2 - 50 mm^2, mounting type: NS 35/7,5, NS 35/15, color: blue

Your advantages

- Globally recognized: Internationally proven screw connection
- Maintenance-free and vibration-resistant thanks to the patented Reakdyn principle
- Space savings and flexibility with the connection of two identical conductors
- Long-term stable connections with the use of high-quality materials
- Low self-heating due to high contact forces
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Vibration-resistant and maintenance-free conductor connection

Commercial data

Item number	3047730
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1111
GTIN	4046356178488
Weight per piece (including packing)	58.692 g
Weight per piece (excluding packing)	58.692 g
Customs tariff number	85369010
Country of origin	TR

Technical data

Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.06 W

Connection data

Number of connections per level	2
Nominal cross section	35 mm²

Level 1 above 1 below 1

Connection method	Screw connection
Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Stripping length	18 mm
Internal cylindrical gage	B9
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	1.5 mm² ... 50 mm²
Cross section AWG	14 ... 0 (converted acc. to IEC)
Conductor cross-section flexible	1.5 mm² ... 50 mm²
Conductor cross-section, flexible [AWG]	14 ... 0 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm² ... 35 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	1.5 mm² ... 35 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	1.5 mm² ... 10 mm²
2 conductors with same cross section, rigid	1.5 mm² ... 16 mm²
2 conductors with same cross section, flexible	1.5 mm² ... 10 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm² ... 10 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm² ... 16 mm²
Nominal cross section	35 mm²
Nominal current	125 A
Maximum load current	150 A (with 50 mm² conductor cross-section)

Nominal voltage	1000 V
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.

Ex data

Rated data (ATEX/IECEx)

Identification	Ⓔx II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1212640 SF-THEX 4-150
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-16 / 3005963
Bridge data	98.5 A (35 mm²)
Ex temperature increase	40 K (133.6 A / 35 mm²)
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

Ex level General

Rated voltage	690 V
Rated current	123 A
Maximum load current	129 A
Contact resistance	0.08 mΩ

Ex connection data General

Torque range	3.2 Nm ... 3.7 Nm
Nominal cross section	35 mm²
Rated cross section AWG	2
Connection capacity rigid	1.5 mm² ... 50 mm²
Connection capacity AWG	16 ... 1/0
Connection capacity flexible	1.5 mm² ... 35 mm²
Connection capacity AWG	16 ... 2
2 conductors with same cross section, solid	1.5 mm² ... 16 mm²
2 conductors with the same cross-section AWG rigid	16 ... 6
2 conductors with same cross section, stranded	1.5 mm² ... 10 mm²
2 conductors with the same cross-section AWG flexible	16 ... 8

Dimensions

Width	16 mm
End cover width	2.2 mm
Height	61.2 mm
Depth	65.1 mm
Depth on NS 35/7,5	65.7 mm
Depth on NS 35/15	73.2 mm

Material specifications

Color	blue (RAL 5015)
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	9.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 35 mm²	4.2 kA
Short-time withstand current 50 mm²	6 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 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	10 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	1.5 mm² / 0.4 kg
	35 mm² / 6.8 kg
	50 mm² / 9.5 kg
Result	Test passed

Environmental and real-life conditions

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	1.857 (m/s²)²/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	Half-sine
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

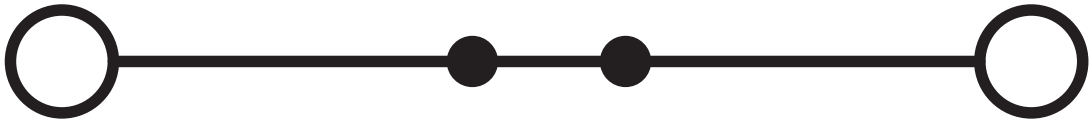
Connection in acc. with standard	IEC 60947-7-1

Mounting

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

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3047730

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	150 A	14 - 1/0	-

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	150 A	14 - 1/0	-
C				
	600 V	150 A	14 - 1/0	-
E				
	1000 V	150 A	14 - 1/0	-

ATEX
Approval ID: KEMA04ATEX2048U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only flexible conductors	690 V	123 A	-	1.5 - 35
Only rigid conductors	690 V	129 A	-	1.5 - 50

EAC Ex
Approval ID: KZ 7500525010101950

IECEx
Approval ID: IECExKEM06.0027U

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Only flexible conductors	690 V	123 A	-	1.5 - 35
Only rigid conductors	690 V	129 A	-	1.5 - 50

CCC

Approval ID: 2020322313000622

UKCA-EX
Approval ID: DEKRA 21UKEX0304U

UL Comp Hazloc CA US
Approval ID: E192998

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	600 V	150 A	14 - 1/0	-
C				
	600 V	150 A	14 - 1/0	-

Classifications

ECLASS

ECLASS-13.0	27250101
ECLASS-15.0	27250101

ETIM

ETIM 10.0	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	0.523 kg CO2e

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