TB 35-PE I - Protective conductor terminal block

3059906

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SCREW



Protective conductor terminal block, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 35 mm^2, cross section: 10 mm^2 - 35 mm^2, mounting method: PE foot with mounting screw, M5, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

Commercial data

Item number	3059906
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BEK221
Product key	BEK221
GTIN	4046356643597
Weight per piece (including packing)	79 g
Weight per piece (excluding packing)	77.28 g
Customs tariff number	85369010
Country of origin	CN

Technical data

Product properties

Product type	Ground terminal block
Product family	TB
Number of positions	1
Number of connections	2
Number of rows	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	35 mm²
Connection method	Screw connection
Screw thread	M6
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	3.2 ... 3.7 Nm
Stripping length	16 mm
Internal cylindrical gage	A8
Connection in acc. with standard	IEC 60947-7-2
Conductor cross-section rigid	10 mm² ... 35 mm²
Cross section AWG	6 ... 2 (converted acc. to IEC)
Conductor cross-section flexible	10 mm² ... 35 mm²
Conductor cross-section, flexible [AWG]	6 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	10 mm² ... 35 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	10 mm² ... 35 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	6 mm² ... 10 mm²
Cross-section with insertion bridge, rigid	35 mm²
Cross-section with insertion bridge, flexible	35 mm²
Nominal cross section	35 mm²

Dimensions

Width	15.2 mm
Height	53.5 mm
Depth on NS 35/7,5	62.1 mm
Depth on NS 35/15	69.6 mm

Material specifications

Color	green-yellow
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
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	9.8 kV
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

General

Terminal block mounting	2.5 Nm ... 3 Nm (PE foot with mounting screw, M5)

Mechanical data

Open side panel	No

Mechanical tests

Mechanical strength

Result	Test passed

Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2/Hz$
Acceleration	3.12g
Test duration per axis	5 h

Test directions	X-, Y- and Z-axis

Shocks

Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

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

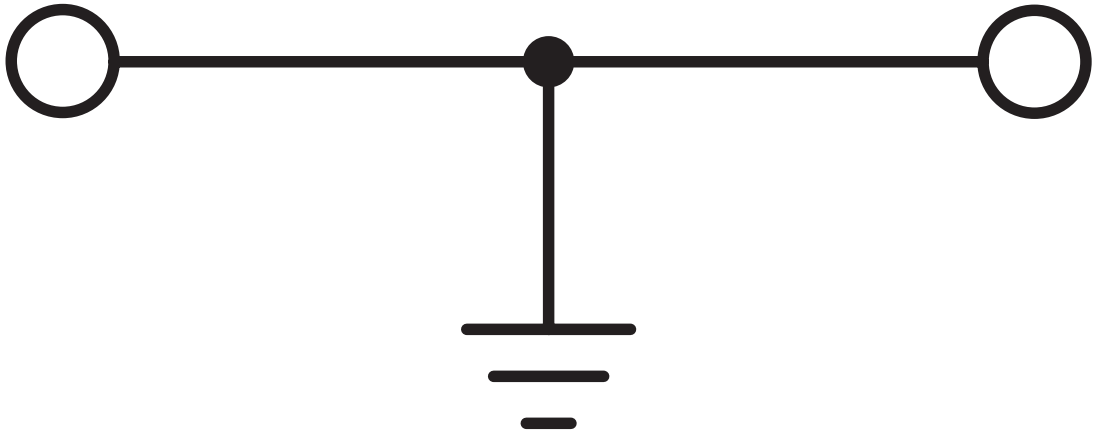
Connection in acc. with standard	IEC 60947-7-2

Mounting

Mounting type	NS 35/7,5
	NS 35/15
Terminal block mounting	2.5 Nm ... 3 Nm (PE foot with mounting screw, M5)

Drawings

Circuit diagram



Approvals

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EAC
Approval ID: KZ7500651131219505

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	-	-	8 - 2	-
C				
	-	-	8 - 2	-
D				
	-	-	8 - 2	-

Classifications

ECLASS

ECLASS-13.0	27250103
ECLASS-15.0	27250103

ETIM

ETIM 10.0	EC000901

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	0.961 kg CO2e

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