

Feed-through terminal block - ST 10 BU - 3036123

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, connection method: Spring-cage connection, number of connections: 2, cross section: 0.2 mm² - 16 mm², AWG: 24 - 6, width: 10.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

Your advantages

- The double bridge shaft not only enables individual chain bridging, but also reducing bridging to spring-cage terminal blocks with smaller cross sections
- ▼ Tested for railway applications







Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	4 017918 819071
GTIN	4017918819071
Weight per Piece (excluding packing)	23.700 g
Custom tariff number	85369000
Country of origin	Poland
Sales Key	BE2111

Technical data

General

Contract	
1	
2	
1	
10 mm ²	
blue	
PA	
V0	

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Technical data

General

Machine building Plant engineering Process industry Rated surge voltage 8 kV Degree of pollution 3 Overvoltage category III Insulating material group Insulating material group Insulating material group III Maximum power dissipation for nominal condition I.82 W Maximum load current 65 A (with 16 mm² conductor cross section) Nominal current I _N For A Nominal voltage U _N Insulating material group Insulating insulation material (DIN EN 60216-1 (VDE 303-2-1)) Insulating material gaplication in cold I		
Plant engineering Process industry Rated surge voltage 8 kV Degree of pollution 3 Overvoltage category IIII Insulating material group III Insulating material group III Maximum power dissipation for nominal condition I 1.82 W Maximum load current III Insulating material group III Maximum load current III Insulating material group III III III III III III III III III I	Area of application	Railway industry
Rated surge voltage		Machine building
Rated surge voltage Degree of pollution 3 Overvoltage category III Insulating material group Insulating material group Maximum power dissipation for nominal condition 1.82 W Maximum load current Maximum load current Nominal current I _N S7 A Nominal voltage U _N Open side panel Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 1634) Smoke gas toxicity NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (ASTM E 1454) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 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) R24 HL 1 - HL 3		Plant engineering
Degree of pollution 3 Overvoltage category III Insulating material group I 1.82 W Maximum power dissipation for nominal condition Insulating material group Maximum load current 65 A (with 16 mm² conductor cross section) Nominal current I _N Nominal voltage U _N Open side panel Yes Ambient temperature (storage/transport) Ambient temperature (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 30304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R23 Fire protection for rail vehicles (DIN EN 45545-2) R24 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) R24 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) R24 HL 1 - HL 3		Process industry
Overvoltage category III Insulating material group I 1.82 W Maximum power dissipation for nominal condition Insulating material group Maximum load current 65 A (with 16 mm² conductor cross section) Nominal current I _N Nominal voltage U _N Open side panel Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 1632) Specific optical density of smoke NFPA 130 (ASTM E 1632) Passed Calorimetric heat release NFPA 130 (SMT 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3	Rated surge voltage	8 kV
Insulating material group Maximum power dissipation for nominal condition 1.82 W Maximum load current Mominal current I _N Nominal voltage U _N Open side panel Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (actuation) Ambient temperature (actuation) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 3040-21)) Static insulating material application in cold Calorimetric heat release NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 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) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3	Degree of pollution	3
Maximum power dissipation for nominal condition 1.82 W Maximum load current 85 A (with 16 mm² conductor cross section) Nominal current I _N 57 A Nominal voltage U _N 1000 V Open side panel Ambient temperature (operation) -60 °C 85 °C Ambient temperature (storage/transport) -25 °C 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) Permissible humidity (storage/transport) 30 % 70 % Ambient temperature (assembly) -5 °C 70 °C Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3	Overvoltage category	III
Maximum load current 65 A (with 16 mm² conductor cross section) Nominal current I _N 57 A Nominal voltage U _N Open side panel Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold For C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 1354) Specific optical density of smoke NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 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) R24 HL 1 - HL 3	Insulating material group	I
Nominal current I _N Nominal voltage U _N Open side panel Ambient temperature (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R23 Fire protection for rail vehicles (DIN EN 45545-2) R24 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) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3	Maximum power dissipation for nominal condition	1.82 W
Nominal voltage U _N Open side panel Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Static insulating material application in cold Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3	Maximum load current	65 A (with 16 mm² conductor cross section)
Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3	Nominal current I_N	57 A
Ambient temperature (operation) -60 °C 85 °C Ambient temperature (storage/transport) -25 °C 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) Permissible humidity (storage/transport) 30 % 70 % Ambient temperature (assembly) -5 °C 70 °C Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3	Nominal voltage U _N	1000 V
Ambient temperature (storage/transport) Permissible humidity (storage/transport) Ambient temperature (assembly) Ambient temperature (assembly) Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3	Open side panel	Yes
Permissible humidity (storage/transport) Ambient temperature (assembly) -5 °C 70 °C Ambient temperature (actuation) -5 °C 70 °C Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3	Ambient temperature (operation)	-60 °C 85 °C
Ambient temperature (assembly) -5 °C 70 °C Ambient temperature (actuation) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3	Ambient temperature (storage/transport)	-25 °C 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)
Ambient temperature (actuation) -5 °C 70 °C Relative insulation material temperature index (Elec., UL 746 B) 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3	Permissible humidity (storage/transport)	30 % 70 %
Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3	Ambient temperature (assembly)	-5 °C 70 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) 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	Ambient temperature (actuation)	-5 °C 70 °C
Static insulating material application in cold Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) 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	Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3	Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Specific optical density of smoke NFPA 130 (ASTM E 662) Calorimetric heat release NFPA 130 (ASTM E 1354) Smoke gas toxicity NFPA 130 (SMP 800C) 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	Static insulating material application in cold	-60 °C
Calorimetric heat release NFPA 130 (ASTM E 1354) 27,5 MJ/kg Smoke gas toxicity NFPA 130 (SMP 800C) passed 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	Surface flammability NFPA 130 (ASTM E 162)	passed
Smoke gas toxicity NFPA 130 (SMP 800C) 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	Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
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	Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
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	Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3	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) R26 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

Dimensions

Width	10.2 mm
End cover width	2.2 mm
Length	71.5 mm
Height NS 35/7,5	50.3 mm
Height NS 35/15	57.8 mm

Connection data

Connection	1 level
Connection method	Spring-cage connection
Stripping length	18 mm



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Technical data

Connection data

Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	16 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	6
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	10 mm ²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	8
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	10 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	10 mm²
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum	1.5 mm²
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum	2.5 mm²
Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	1.5 mm²
Conductor cross section solid max.	16 mm²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	6
Conductor cross section flexible min.	1.5 mm ²
Conductor cross section flexible max.	10 mm ²
Internal cylindrical gage	A6

Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
	IEC/EN 60079-7
Flammability rating according to UL 94	V0

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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