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Ground modular terminal block, connection method: Push-in connection, number of connections: 3, cross section: $0.5 \text{ mm}^2 - 25 \text{ mm}^2$, AWG: 20 - 4, width: 12.2 mm, height: 53.3 mm, color: green-yellow, mounting type: NS 35/7.5, NS 35/15

Your advantages

- The compact design and front connection enable wiring in a confined space
- ☑ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection.
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- Tested for railway applications





Key Commercial Data

Packing unit	25 pc
Minimum order quantity	25 pc
GTIN	4 046356 737531
GTIN	4046356737531
Weight per Piece (excluding packing)	56.750 g
Country of origin	Poland
Sales Key	BE2222

Technical data

General

Number of levels	1
Number of connections	3
Nominal cross section	16 mm ²
Color	green-yellow
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Machine building



Technical data

General

Reted surge voltage	General	Tax is a second control of the contr
Degree of pollution 3 Overvoltage category III Insulating material group 1 Open side panel Yes Ambient temperature (peration) -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 (assembly) -5 °C 70 °C Ambient temperature (actuation) -5 °C 70 °C Ambient temperature (actuation) -5 °C 70 °C Shock protection test specification Back of the hand protection		Plant engineering
Overvoltage category III Insulating material group I Open side panel Yes 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 °C Ambient temperature (assembly) -5 °C 70 °C Ambient temperature (actuation) -5 °C 70 °C Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection guaranteed Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f, = 5 Hz to f, = 250 Hz ASD level 6.12 (m/s*) ³ /Hz Acceleration 3.12 g Test duration per axis 5 h Test duration per axis 5 h Test passed Test passed Test specification, shock test DIN EN 501		
Insulating material group		3
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) -5 °C 70 °C Ambient temperature (assembly) -5 °C 70 °C Ambient temperature (actuation) -5 °C 70 °C Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted finger protection 3.12 g Test duration per axis 5 h Test duration per axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test duration per axis 5 h Test directions X., Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 18 ms Number of shocks per direction 3 Test directions X., Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Overvoltage category	III
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) -5 °C 70 °C Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency -6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis -5 h Test duration per axis Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification Shock form -6.12 (m/s²)²/Hz -6.13 (m/s²)²/Hz -6.14 (m/s²)²/Hz -6.15 (m/s²)²/Hz -6.15 (m/s²)²/Hz -6.16 (m/s²)²/Hz -6.17 (m/s²)²/Hz -6.18 (m/s²)²/Hz -6.19 (m/s²)²/Hz -6.1	Insulating material group	I
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) -5 °C 70 °C Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection Oscillation, broadband noise test result Test apassed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s³)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 18 ms Number of shocks per direction X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL. 746 B) 130 °C	Open side panel	Yes
Permissible humidity (storage/transport) Ambient temperature (assembly) -5 °C 70 °C Ambient temperature (actuation) -5 °C 70 °C Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²²²/Hz Acceleration 3.12 g Test directions Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions Shock form Half-sine Acceleration 18 ms Number of shocks per direction Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Ambient temperature (operation)	-60 °C 85 °C
Ambient temperature (assembly) Ambient temperature (actuation) Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X., Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction X., Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	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 Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Permissible humidity (storage/transport)	30 % 70 %
Shock protection test specification Back of the hand protection guaranteed Finger protection Quaranteed Service life test category 2, bogie-mounted Finger protection Test spectrum Service life test category 2, bogie-mounted Finger protection Test frequency fineship life Acceleration Shock test result Test duration per axis Fest directions Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Ambient temperature (assembly)	-5 °C 70 °C
Back of the hand protection Finger protection Quaranteed Secritication, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s ²) ² /Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 "X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 "C	Ambient temperature (actuation)	-5 °C 70 °C
Finger protection Quaranteed Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Back of the hand protection	guaranteed
Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 - Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Finger protection	guaranteed
Test spectrumService life test category 2, bogie-mountedTest frequency $f_1 = 5$ Hz to $f_2 = 250$ HzASD level $6.12 \text{ (m/s}^2)^2\text{/Hz}$ Acceleration 3.12 g Test duration per axis 5 h Test directions X , Y and Z axisShock test resultTest passedTest specification, shock testDIN EN 50155 (VDE 0115-200):2008-03Shock formHalf-sineAcceleration $30g$ Shock duration 18 ms Number of shocks per direction 3 Test directions X , Y and Z axis (pos. and neg.)Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Oscillation, broadband noise test result	Test passed
Test frequency $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ ASD level $6.12 \text{ (m/s}^2)^2/\text{Hz}$ Acceleration 3.12 g Test duration per axis 5 h Test directions $X^-, Y^- \text{ and } Z^- \text{ axis}$ Shock test result $Test \text{ passed}$ Test specification, shock test $DIN \text{ EN } 50155 \text{ (VDE } 0115\text{-}200)\text{:}2008\text{-}03$ Shock form $Half\text{-sine}$ Acceleration 30 g Shock duration 18 ms Number of shocks per direction 3 Test directions $X^-, Y^- \text{ and } Z^- \text{ axis (pos. and neg.)}$ Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Test spectrum	Service life test category 2, bogie-mounted
Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Test frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	ASD level	6.12 (m/s ²) ² /Hz
Test directions X-, Y- and Z-axis Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Acceleration	3.12 g
Shock test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration Shock duration 18 ms Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Test passed DIN EN 50155 (VDE 0115-200):2008-03 Half-sine 30g X-, Y- and Z-axis (pos. and neg.)	Test duration per axis	5 h
Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 7 st directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Test directions 130°C	Test directions	X-, Y- and Z-axis
Shock form Acceleration 30g Shock duration 18 ms Number of shocks per direction 7 test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Half-sine 30g X ms 18 ms 18 ms 19 ms 10 ms 10 ms 10 ms 10 ms 11 ms 11 ms 12 ms 13 ms 13 ms 14 ms 15 ms 16 ms 17 ms 18 ms 18 ms 19 ms	Shock test result	Test passed
Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Shock form	Half-sine
Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Acceleration	30g
Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Shock duration	18 ms
Relative insulation material temperature index (Elec., UL 746 B) 130 °C	Number of shocks per direction	3
	Test directions	X-, Y- and Z-axis (pos. and neg.)
Towns and we find the state of	Relative insulation material temperature index (Elec., UL 746 B)	130 °C
0304-21)) 130 °C	Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold -60 °C	Static insulating material application in cold	-60 °C
Surface flammability NFPA 130 (ASTM E 162) passed	Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354) 28 MJ/kg	Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C) passed	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) 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) 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) R24	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) R26	HL 1 - HL 3



Technical data

Dimensions

Width	12.2 mm
End cover width	2.2 mm
Length	100.2 mm
Height	53.3 mm
Height NS 35/7,5	52.6 mm
Height NS 35/15	60.1 mm

Connection data

Note	Please observe the current carrying capacity of the DIN rails.
Connection	1 level
Connection method	Push-in connection
Stripping length	18 mm
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	25 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	4
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	25 mm ²
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	6
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	16 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	16 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	4 mm²
Connection cross sections directly pluggable	2.5 mm² 25 mm²
Conductor cross section solid min.	2.5 mm²
Conductor cross section solid max.	25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	16 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	2.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	16 mm ²
Internal cylindrical gage	A7

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-2
Flammability rating according to UL 94	V0

Environmental Product Compliance



Technical data

Environmental Product Compliance

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

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