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The figure shows the product in

Distribution block, Basic terminal block with supply, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in connection, Push-in connection, number of connections: 19, cross section:0.14 mm² - 4 mm², AWG: 26 - 12, width: 56 mm, height: 21.2 mm, color: black/yellow, mounting type: for snapping onto a DIN rail adapter, Adapter plate

#### Why buy this product

- Time savings of up to 80%, thanks to ready-to-mount blocks without manual bridging
- Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- Clear wiring, thanks to eleven different color variants
- Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- ☑ Space savings of up to 50% on the DIN rail, thanks to transverse mounting



#### **Key Commercial Data**

Packing unit	8 STK
Minimum order quantity	8 STK
GTIN	4 055626 392684
GTIN	4055626392684

#### Technical data

#### General

Note	Notes on operation The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories	
Number of levels	1	
Number of connections	19	
Potentials	1	
Nominal cross section	2.5 mm²	
Nominal cross section feed-in	6 mm²	
Color	black/yellow	
Insulating material	PA	



#### Technical data

#### General

Flammability rating according to UL 94   V0     Degree of pollution   3     Overvoltage category   III     Insulating material group   II     Insulating material group   II     Maximum power dissipation for nominal condition   1.31 W (the value is based on one connection block and is multiplied according to the pin assignment)     Maximum load current   Value			
Degree of pollution         3           Overvoltage category         III           Insulating material group         I           Maximum lower dissipation for nominal condition         1.31 W (the value is based on one connection block and is multiplied according to the pin assignment)           Maximum load current         24 A           Nominal current I <sub>N</sub> 24 A           Nominal voltage U <sub>N</sub> 500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 500 V           Open side panel         No           Shock protection test specification         DIN En 50274 (VDE 0680-514):2002-11           Back of the hand protection         guaranteed           Result of thermal characteristics (needle flame) effective duration         30 s           Oscillation, broadband noise test result         Test passed           Test specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test specification         Servical fire test category 2, bogie-mounted           Test specification per axis         5 h           Test directions         X. Y. and Z-axis           Shock form         Half-sine           Acceleration         30 g           Test specification, shock test         DIN EN 501	, , ,		
Overvoltage category         III           Insulating material group         I           Maximum power dissipation for nominal condition         1.31 W (the value is based on one connection block and is multiplied according to the pin assignment)           Maximum load current         24 A           Nominal current I <sub>N</sub> 500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 500 V           Open side panel         No           Shock protection test specification         DIN EN 50274 (VDE 0860-514);2002-11           Back of the hand protection         guaranteed           Finger protection         guaranteed           Result of thermal test         Test passed           Proof of thermal characteristics (needle flame) effective duration         30 s           Oscillation, broadband noise test result         Test passed           Test specification, scillation, proadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test specification, scillation, proadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test specification         3.12 g           Test druration per axis         5h           Test druration per axis         5h           Test drirections         X. Y. and Z-axis           Shock test res	Rated surge voltage	6 kV	
Insulating material group	Degree of pollution	3	
Maximum power dissipation for nominal condition         1.31 W ((the value is based on one connection block and is multiplied according to the pin assignment)           Maximum load current         24 A           Nominal current I <sub>N</sub> 24 A           Nominal voltage U <sub>N</sub> 500 V           Maximum load current I <sub>N</sub> 41 A (with 10 mm² conductor cross section)           Nominal current I <sub>N</sub> 41 A (with 6 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 500 V           Open side panel         No           Shock protection test specification         DIN EN 50274 (VDE 0660-514):2002-11           Back of the hand protection         guaranteed           Finger protection         guaranteed           Result of thermal test         Test passed           Proof of thermal characteristics (needle flame) effective duration         30 s           Socillation, broadband noise test result         Test passed           Test specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test frequency         f, = 5 Hz to f₂ = 250 Hz           ASD level         6.12 (m/s)³/Hz           ACceleration         3.12 g           Test directions         X, Y and Z-axis <td>Overvoltage category</td> <td colspan="2">III</td>	Overvoltage category	III	
Maximum load current         24 A           Mominal current I <sub>k</sub> 24 A           Nominal current I <sub>k</sub> 500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal current I <sub>k</sub> 41 A (with 6 mm³ conductor cross section)           Nominal voltage U <sub>k</sub> 500 V           Open side panel         No           Shock protection test specification         DIN EN 50274 (VDE 0660-514):2002-11           Back of the hand protection         guaranteed           Finger protection         guaranteed           Finger protection         guaranteed           Froof of thermal test         Test passed           Proof of thermal characteristics (needle flame) effective duration         30 s           Oscillation, broadband noise test result         Test spassed           Test specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test frequency         f, = 5 Hz to f <sub>a</sub> = 250 Hz           ASD level         6.12 (m/s²)²/Hz           Acceleration         3.12 g           Test duration per axis         5 h           Test duration per axis         5 h           Test duration per axis         6 h           Test duration per axis         7 h	Insulating material group	I	
Nominal current I <sub>N</sub> 24 A           Nominal voltage U <sub>N</sub> 500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal current I <sub>N</sub> 41 A (with 6 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 500 V           Open side panel         No           Shock protection test specification         DIN EN 50274 (VDE 0660-514):2002-11           Back of the hand protection         guaranteed           Finger protection         guaranteed           Result of thermal test         Test passed           Proof of thermal characteristics (needle flame) effective duration         30 s           Oscillation, broadband noise test result         Test passed           Proof of thermal characteristics (needle flame) effective duration         30 s           Oscillation, broadband noise test result         Test passed           Pest specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test specification in section         Service life test category 2, bogie-mounted           Test frequency         f, = 5 Hz to f₂ = 250 Hz           ASD level         6.12 (m/s²)²/Hz           ASCeleration         3.12 g           Test duration per axis         5 h           Test duration per axis <td< td=""><td>Maximum power dissipation for nominal condition</td><td></td></td<>	Maximum power dissipation for nominal condition		
Nominal voltage U <sub>N</sub> Maximum load current  S7 A (with 10 mm² conductor cross section)  Nominal current I <sub>N</sub> Nominal voltage U <sub>N</sub> S50 V  Open side panel  No  Shock protection test specification  DIN EN 50274 (VDE 0660-514):2002-11  Back of the hand protection  guaranteed  Finger protection  Result of thermal characteristics (needle flame) effective duration  Socillation, broadband noise test result  Test passed  Test passed  Test passed  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2008-03  Test specitum  Service life test category 2, bogie-mounted  Test frequency  f, = 5 Hz to f, = 250 Hz  ASD level  6.12 (m/s²²/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  Shock form  Half-sine  Acceleration  30 g  Shock duration  18 ms  Number of shocks per direction  30 g  Relative insulation material temperature index (Elec., UL 746 B)  Test passed  Test passed  Test passed  Flame test method (DIN EN 60695-11-10)  Vo	Maximum load current	24 A	
Maximum load current I <sub>N</sub> 57 A (with 10 mm² conductor cross section)           Nominal current I <sub>N</sub> 41 A (with 6 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 500 V           Open side panel         No           Shock protection test specification         DIN EN 50274 (VDE 0660-514):2002-11           Back of the hand protection         guaranteed           Result of thermal test         Test passed           Proof of thermal test (not find the protection oscillation) broadband noise test result         Test passed           Test passed         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 spectrum         Service life test category 2, bogie-mounted           Test spectrum         5.1 (m/s²)²/Hz           Acceleration         3.12 g           Test duration per axis         5.h           Test duration per axis         5.h           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           Numb	Nominal current I <sub>N</sub>	24 A	
Nominal current I <sub>N</sub> 41 A (with 6 mm² conductor cross section)  Nominal voltage U <sub>N</sub> 500 V  Open side panel No  Shock protection test specification guaranteed  Back of the hand protection  Finger protection  Result of thermal test Test passed  Proof of thermal characteristics (needle flame) effective duration 30 s  Oscillation, broadband noise test result Test passed  Prost specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200)-2008-03  Test specification, oscillation, broadband noise Service life test category 2, bogie-mounted  Test frequency f, = 5 Hz to f <sub>2</sub> = 250 Hz  ASD level 6.12 (m/s²)²/Hz  ASCeleration 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  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Test passed  Flame test method (DIN EN 60695-11-10) V0	Nominal voltage U <sub>N</sub>	500 V	
Nominal voltage U <sub>N</sub> Open side panel  No Shock protection test specification  Back of the hand protection  Back of the hand protection  Guaranteed  Result of thermal test  Proof of thermal test  Proof of thermal characteristics (needle flame) effective duration  Oscillation, broadband noise test result  Test passed  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  ASD level  6.12 (m/s³²²/Hz  Acceleration  3.12 g  Test duration per axis  5 h  Test duration per axis  Shock test result  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Test duration, 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 passed  DIN EN 50155 (VDE 0115-200):2008-03  Half-sine  Acceleration  30g  Shock duration  30g  Shock duration  18 ms  Number of shocks per direction  3 (Lettic 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  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)	Maximum load current	57 A (with 10 mm² conductor cross section)	
Open side panel  No Shock protection test specification  DIN EN 50274 (VDE 0660-514):2002-11  Back of the hand protection  guaranteed  Finger protection  guaranteed  Finger protection  guaranteed  Froger protection  Result of thermal test  Proof of thermal characteristics (needle flame) effective duration  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 <sub>2</sub> = 250 Hz  ASD level  6.12 (m/s³)²/Hz  Acceleration  3.12 g  Test duration per axis  5 h  Test duration per 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 "X, Y- and Z-axis (pos. and neg.)  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  Po "C  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  VO	Nominal current I <sub>N</sub>	41 A (with 6 mm² conductor cross section)	
Shock protection test specification  DIN EN 50274 (VDE 0660-514):2002-11  Back of the hand protection  guaranteed  Finger protection  Result of thermal test  Test passed  Proof of thermal characteristics (needle flame) effective duration  Oscillation, broadband noise test result  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2008-03  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2008-03  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2008-03  Test frequency  f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 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 passed  Test specification, shock test  DIN EN 50155 (VDE 0115-200):2008-03  Shock form  Half-sine  Acceleration  30 g  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)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  -60 °C  Behavior in fire for rail vehicles (DIN 5510-2)  Test passed  Flame test method (DIN EN 60695-11-10)	Nominal voltage U <sub>N</sub>	500 V	
Back of the hand protection  Finger protection  Result of thermal test  Proof of thermal characteristics (needle flame) effective duration  Oscillation, 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, = 5 Hz to f, = 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 passed  Test specification, shock test  DIN EN 50155 (VDE 0115-200):2008-03  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)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  -60 °C  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Vo	Open side panel	No	
Finger protection guaranteed  Result of thermal test  Test passed  Proof of thermal characteristics (needle flame) effective duration  Oscillation, broadband noise test result  Test passed  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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 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 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  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  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60895-11-10)  Vo	Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11	
Result of thermal test Proof of thermal characteristics (needle flame) effective duration Oscillation, broadband noise test result Test specification, oscillation, broadband noise 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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 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 Test directions Acceleration 30 g Shock form Half-sine Acceleration 30 g 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) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Behavior in fire for rail vehicles (DIN 5510-2) Test passed Flame test method (DIN EN 60695-11-10) V0	Back of the hand protection	guaranteed	
Proof of thermal characteristics (needle flame) effective duration  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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 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 (X-, Y- and Z-axis (pos. and neg.))  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  Flame test method (DIN EN 60695-11-10)  Vo	Finger protection	guaranteed	
Oscillation, broadband noise test result  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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 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 (X, Y- and Z-axis (pos. and neg.))  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  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60895-11-10)	Result of thermal test	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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 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)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  60 °C  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)	Proof of thermal characteristics (needle flame) effective duration	30 s	
Test spectrum  Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz} \text{ to } f_2 = 250 \text{ Hz}$ ASD level $6.12  (\text{m/s}^2)^2/\text{Hz}$ Acceleration $3.12  \text{g}$ Test duration per axis $5  \text{h}$ Test directions $X_1  Y_2  \text{and } Z_2  \text{axis}$ 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 $X_1  Y_2  \text{and } Z_2  \text{axis}$ Test directions  18 ms  Number of shocks per direction  7 and $Z_2  \text{axis}  \text{gos. and neg.}$ 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  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60895-11-10)	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 $3.12 \text{ g}$ Test duration per axis $5 \text{ h}$ Test directions $X_1 \times Y_2 \times Y_3 \times Y_4 \times Y_4 \times Y_5 \times Y_5$	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  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 130 °C  Static insulating material application in cold -60 °C  Behavior in fire for rail vehicles (DIN 5510-2) Test passed  Flame test method (DIN EN 60695-11-10) V0	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  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold -60 °C  Behavior in fire for rail vehicles (DIN 5510-2) Test passed  Flame test method (DIN EN 60695-11-10)	Test frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$	
Test duration per axis  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)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Vo	ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /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  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold -60 °C  Behavior in fire for rail vehicles (DIN 5510-2) Test passed  Flame test method (DIN EN 60695-11-10)	Acceleration	3.12 g	
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)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  V0	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  3 Test directions  X-, Y- and Z-axis (pos. and neg.)  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  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  V0	Test directions	X-, Y- and Z-axis	
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  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold -60 °C  Behavior in fire for rail vehicles (DIN 5510-2) Test passed  Flame test method (DIN EN 60695-11-10) V0	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  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 130 °C  Static insulating material application in cold -60 °C  Behavior in fire for rail vehicles (DIN 5510-2) Test passed  Flame test method (DIN EN 60695-11-10) V0	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  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  V0	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)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Vo	Acceleration	30g	
Test directions  X-, Y- and Z-axis (pos. and neg.)  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  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Vo	Shock duration	18 ms	
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  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  130 °C  130 °C  Test passed	Number of shocks per direction	3	
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  -60 °C  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  V0	Test directions	X-, Y- and Z-axis (pos. and neg.)	
0304-21))  Static insulating material application in cold  -60 °C  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  V0	Relative insulation material temperature index (Elec., UL 746 B)	130 °C	
Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  V0		130 °C	
Flame test method (DIN EN 60695-11-10) V0	Static insulating material application in cold	-60 °C	
	Behavior in fire for rail vehicles (DIN 5510-2)	Test passed	
Oxygen index (DIN EN ISO 4589-2) >32 %	Flame test method (DIN EN 60695-11-10)	V0	
	Oxygen index (DIN EN ISO 4589-2)	>32 %	



#### Technical data

#### General

NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

#### **Dimensions**

Width	56 mm
Length	28.2 mm
Height	21.2 mm

#### Connection data

Feed-in connection	Feed-in stage
Connection method	Push-in connection
Connection in acc. with standard	IEC 60998-2-2
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection method	Push-in connection
Connection in acc. with standard	IEC 60998-2-2
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	10 mm²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	6 mm <sup>2</sup>



#### Technical data

#### Connection data

Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm²
Stripping length	10 mm 12 mm

#### Standards and Regulations

Connection in acc. with standard	IEC 60998-2-2	
	IEC 60998-2-2	
Flammability rating according to UL 94	V0	
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	

#### **Environmental Product Compliance**

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

#### **Drawings**

Circuit diagram



### Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / CSA / VDE approval of drawings / IECEE CB Scheme / DNV GL / cULus Recognized

Ex Approvals

Approval details



### Approvals

UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425		
	D	В	С
Nominal voltage UN	600 V	300 V	300 V
Nominal current IN	5 A	50 A	50 A
mm²/AWG/kcmil	20-8	20-8	20-8

cUL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425		
	D	В	С
Nominal voltage UN	600 V	300 V	300 V
Nominal current IN	5 A	50 A	50 A
mm²/AWG/kcmil	20-8	20-8	20-8

CSA	http://www.csagroup.org/services-industries/product-listing/ 13631			
	D	I	В	С
Nominal voltage UN	600 V	;	300 V	300 V
Nominal current IN	5 A	;	50 A	50 A
mm²/AWG/kcmil	20-8	2	20-8	20-8

VDE approval of drawings	Ď <sup>Ŷ</sup> Ē	http://www2.vde.com/de/Institut/Online-Service/ VDE-gepruefteProdukte/Seiten/Online-Suche.aspx		40047798
Nominal voltage UN			450 V	
Nominal current IN			41 A	

IECEE CB Scheme	<b>CB</b> scheme	http://www.iecee.org/	DE1-60115
Nominal voltage UN		450 V	
Nominal current IN		41 A	

DNV GL	http://exchange.dnv.com/tari/	TAE00002TT
Nominal voltage UN	500 V	
Nominal current IN	24 A	



#### Approvals

cULus Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

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