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Double-level terminal block, With equipotential bonder, connection method: Screw connection, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 10.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15, NS 32

#### Your advantages

Design width of just 10.2 mm



## **Key Commercial Data**

Packing unit	50 pc
GTIN	4 017918 100759
GTIN	4017918100759

#### Technical data

#### General

Number of levels	2
Number of connections	4
Nominal cross section	10 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	1.82 W (the value is multiplied when connecting multiple levels)
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



### Technical data

### General

Connection in acc. with standard  Nominal current Is,  Nominal current Is,  Nominal current Is,  Nominal votage Us,  SOO V  Nominal current Is, (upper level)  Open side panel  Yes  Shock protection test specification  Black of the hand protection  Back of the hand protection  Back of the hand protection  Back of surge vottage test  Test passed  Surge vottage test setpoint  Result of surge votage test setpoint  Tost passed  Power frequency withstand voltage setpoint  Checking the mechanical stability of terminal points (5 x conductor consection)  Bending test troation speed  Bending test troation speed  Bending test troation speed  Ponductor cross section tensile test  Conductor cross section tensile test  Tractive force setpoint  Tracti	Ambient temperature (actuation)	-5 °C 70 °C
Maximum load current Nominal voltage U <sub>N</sub> Nominal current I <sub>N</sub> (upper level) So V Nominal current I <sub>N</sub> (upper level) Shock protection test specification Back of the hand protection Result of surge voltage test Test passed Not guaranteed Result of surge voltage test Surge voltage test seepoint Result of power-frequency withstand voltage set to Test passed Surge voltage test seepoint Test passed To prome treducing vithstand voltage setpoint Test passed To prome treducing vithstand voltage setpoint Test passed To prome treducing vithstand voltage setpoint Test passed To prome treducing test turns Tast passed To prome treducing test turns To prome test voltage set of terminal points (5 x conductor connection) Test passed Tractive force setpoint Tractive force setp		IEC 60947-7-1
Nominal current I <sub>8</sub> (upper level)  Son V  Nominal current I <sub>8</sub> (upper level)  Son	Nominal current I <sub>N</sub>	57 A
Nominal current Is (upper level)  So A Open side panel  Yes Shock protection test specification  DIN EN 50274 (VDE 0660-514):2002-11  Back of the hand protection  Result of surge voltage test  Test passed  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Tost passed  Power frequency withstand voltage setpoint  Checking the mechanical stability of terminal points (5 x conductor connection)  Bending test rotation speed  Bending test rotation speed  Bending test stroation speed  Bending test sturus  135  Bending test stroation speed  Conductor cross section tensile test  Tractive force setpoint  Ton mm²  Tractive force setpoint  Ton mractive force setpoint  Ton mractive force setpoint  Ton mractive force setpoint  Ton No No  SayNN 35  Setpoint  Tractive force setpoint  Ton carrier  NS 32/NS 35  Setpoint  Test passed  Service force setpoint  Ton No No  Result of voltage-drop test  Test specification, socillation, broadband noise  DIN EN 50155 (VDE 0115-200):2018-05  Test specification, socillation, broadband noise  DIN EN 50155 (VDE 0115-200):2018-05  Test specification, socillation, broadband noise  DIN EN 50155 (VDE 0115-200):2018-05  Test frequency  If, 5 Hz to Ic, 5	Maximum load current	70 A (with 16 mm² conductor cross section)
Open side panel  Shock protection test specification  Back of the hand protection  Back of the hand protection  Back of the hand protection  Result of surge voltage test  Test passed  Result of surge voltage test  Test passed  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power firequency withstand voltage setpoint  Checking the mechanical stability of terminal points (5 x conductor connection)  Bending test rotation speed  Bending test rotation speed  Bending test turns  135  Tensile test result  Conductor cross section tensile test  Tractive force setpoint  Conductor cross section tensile test  Tractive force setpoint  Son N  Conductor cross section tensile test  Tractive force setpoint  100 N  Tight fit on carrier  NS 32/NS 35  Setpoint  Set passed  Test passed  Test passed  Test passed  Test passed  Test passed  Test passed  To norme  Tractive force setpoint  100 N  Tight fit on carrier  NS 32/NS 35  Setpoint  Set N  Result of voltage-drop test  Test passed  Test pass	Nominal voltage U <sub>N</sub>	500 V
Shock protection test specification  Back of the hand protection  Back of the hand protection  Back of the hand protection  Not guaranteed  Finger protection  Not guaranteed  Test passed  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Test passed  Power frequency withstand voltage setpoint  Test passed  Power frequency withstand voltage setpoint  Test passed  To prome frequency withstand voltage setpoint  Test passed  To prome frequency withstand voltage setpoint  To prome frequency  Test passed  To prome frequency  Test passed  Do prome frequency  Test passed  Do prome frequency  Test passed  Do prome frequency  To prome frequency	Nominal current I <sub>N</sub> (upper level)	57 A
Shock protection test specification  Back of the hand protection  guaranteed  Finger protection  Not guaranteed  Result of surge voltage test  Test passed  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Test passed  Do rpm  Bending test rotation speed  Test passed  Test passed  Test passed  Conductor cross section tensile test  Test passed  Conductor cross section tensile test  Test passed  Test passed  Test passed  Conductor cross section tensile test  Tomative force setpoint  Conductor cross section tensile test  Tractive force setpoint  So N  Conductor cross section tensile test  Tractive force setpoint  Tractive force setpoint  Tight fill on carrier  NS 32NS 35  Setpoint  Fest passed  Test	Open side panel	Yes
Back of the hand protection Finger protection Result of surge voltage test Result of surge voltage test Surge voltage test setpoint Result of surge voltage test setpoint Result of power-frequency withstand voltage test Power frequency withstand voltage setpoint 1.89 kV Checking the mechanical stability of terminal points (5 x conductor connection) Rending test trotation speed 10 rpm Bending test turns 135 Test passed Conductor cross section tensile test 0.5 mm² Tractive force setpoint 20 N Conductor cross section tensile test 10 mm² Tractive force setpoint 100 N Tight fit on carrier NS 32/NS 35 Setpoint 5 N Result of voltage-drop test Requirements, voltage drop Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Test spectrum Service life test category 2, bogie-mounted Test spectrum Service life test category 2, bogie-mounted Test streament Test spectrum Service life test category 2, bogie-mounted Test streament Test spectrum Service life test category 2, bogie-mounted Test streament Test directions X-, Y- and Z-axis Shock form Half-sine Acceleration		DIN EN 50274 (VDE 0660-514):2002-11
Result of surge voltage test Surge voltage test Surge voltage test setpoint 7.3 kV  Result of power-frequency withstand voltage setpoint 1.89 kV  Checking the mechanical stability of terminal points (5 x conductor connection) Test passed  Bending test rotation speed 10 rpm  Bending test trotation speed 1135  Tensile test result Test passed  Conductor cross section tensile test 0.5 mm²  Tractive force setpoint 20 N  Conductor cross section tensile test 10 mm²  Tractive force setpoint 90 N  Conductor cross section tensile test 16 mm²  Tractive force setpoint 90 N  Conductor cross section tensile test 16 mm²  Tractive force setpoint 90 N  Result of voltage-drop test 75 N  Result o		guaranteed
Surge voltage test setpoint  Result of power-frequency withstand voltage test  Test passed  Power frequency withstand voltage setpoint  Checking the mechanical stability of terminal points (5 x conductor connection)  Bending test rotation speed  10 rpm  Bending test turns  135  Tensile test result  Conductor cross section tensile test  10.5 mm²  Tractive force setpoint  20 N  Conductor cross section tensile test  10 mm²  Tractive force setpoint  Conductor cross section tensile test  10 mm²  Tractive force setpoint  100 N  Tight fit on carrier  NS 32NS 35  Setpoint  5 N  Result of voltage-drop test  Test passed  30 s  Test passed  30 s  Test specification, oscillation, broadband noise  DIN EN 5155 (VDE 0115-200):2018-05  Test frequency  f, = 5 Hz to f, = 250 Hz  Acceleration  Acceleration  Half-sine  Acceleration  Acceleration  Acceleration  Acceleration  Acceleration  Test passed  Test pas	Finger protection	Not guaranteed
Result of power-frequency withstand voltage test Power frequency withstand voltage setpoint 1.89 kV Checking the mechanical stability of terminal points (5 x conductor connection) Bending test rotation speed 10 rpm Bending test rotation speed 110 rpm Bending test trousult Conductor cross section tensile test 10.5 mm² Tractive force setpoint 20 N Conductor cross section tensile test 110 mm² Tractive force setpoint 20 N Conductor cross section tensile test 110 mm² Tractive force setpoint 100 N Conductor cross section tensile test 116 mm² Tractive force setpoint 100 N Tractive force setpoint 100 N Result of or carrier NS 32/NS 35 Setpoint 5 N Result of voltage-drop test Test passed Requirements, voltage drop 4 Sa 2 mV Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2018-05 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) <sup>2</sup> /Hz Acceleration Test directions X. Y. and Z-axis Shock form Half-sine Acceleration 30 g	Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint Checking the mechanical stability of terminal points (5 x conductor connection) Bending test rotation speed 10 rpm Bending test turns 135 Tensile test result Test passed Conductor cross section tensile test 0.5 mm² Tractive force setpoint 20 N Conductor cross section tensile test 10 mm² Tractive force setpoint 90 N Conductor cross section tensile test 110 mm² Tractive force setpoint 100 N Tight fit on carrier NS 32/NS 35 Setpoint Set of voltage-drop test Test passed Requirements, voltage drop Ageing test for screwless modular terminal block temperature cycles 192 Proof of thermal characteristics (needle flame) effective duration Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2018-05 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)°/Hz Acceleration 1.89 kV Test passed Test directions N, Y, and Z-axis Shock form Half-sine Acceleration 3.0g	Surge voltage test setpoint	7.3 kV
Checking the mechanical stability of terminal points (5 x conductor connection)       Test passed         Bending test rotation speed       10 rpm         Bending test turns       135         Tensile test result       Test passed         Conductor cross section tensile test       0.5 mm²         Tractive force setpoint       20 N         Conductor cross section tensile test       10 mm²         Tractive force setpoint       90 N         Conductor cross section tensile test       16 mm²         Tractive force setpoint       100 N         Tight fit on carrier       NS 32/NS 35         Setpoint       5 N         Result of voltage-drop test       Test passed         Requirements, voltage drop       ≤ 3.2 mV         Ageing test for screwless modular terminal block temperature cycles       192         Proof of thermal characteristics (needle flame) effective duration       30 s         Test specification, oscillation, broadband noise       DIN EN 50155 (VDE 0115-200):2018-05         Test spectrum       Service life test category 2, bogie-mounted         Test frequency       f₁ = 5 Hz to f₂ = 250 Hz         ASD level       6.12 (m/s³²/Hz         Acceleration       3.12 g         Test directions       X-, Y- and Z-axis         Shock	Result of power-frequency withstand voltage test	Test passed
connection)         Test passed           Bending test rotation speed         10 rpm           Bending test turns         135           Tensile test result         Test passed           Conductor cross section tensile test         0.5 mm²           Tractive force setpoint         20 N           Conductor cross section tensile test         10 mm²           Tractive force setpoint         90 N           Conductor cross section tensile test         16 mm²           Tractive force setpoint         100 N           Tight fit on carrier         NS 32/NS 35           Setpoint         5 N           Result of voltage-drop test         Test passed           Requirements, voltage drop         ≤ 3.2 mV           Ageing test for screwless modular terminal block temperature cycles         192           Proof of thermal characteristics (needle flame) effective duration         30 s           Test specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2018-05           Test specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2018-05           Test frequency         f₁ = 5 Hz to f₂ = 250 Hz           ASD level         6.12 (m/s²²²/Hz           Acceleration         3.12 g           Test directions         X-, Y- and Z-axis </td <td>Power frequency withstand voltage setpoint</td> <td>1.89 kV</td>	Power frequency withstand voltage setpoint	1.89 kV
Bending test turns		Test passed
Tensile test result  Conductor cross section tensile test $0.5 \text{ mm}^2$ Tractive force setpoint $20 \text{ N}$ Conductor cross section tensile test $10 \text{ mm}^2$ Tractive force setpoint $90 \text{ N}$ Conductor cross section tensile test $16 \text{ mm}^2$ Tractive force setpoint $100 \text{ N}$ Tight fit on carrier $100 \text{ N}$ Result of voltage-drop test  Requirements, voltage drop  Requirements, voltage drop $20 \text{ N}$ Test passed $20 \text{ N}$ Tight fit on carrier $20 \text{ N}$ NS 32/NS 35  Setpoint  Test passed  Requirements, voltage-drop test  Requirements, voltage drop $20 \text{ N}$ Test passed $20 \text{ N}$ Test passed  Test passed  Requirements, voltage-drop test  Test passed $20 \text{ N}$ Test passed  Test passed  Test passed  Service life test category 2, bogie-mounted  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2018-05  Test spectrum  Service life test category 2, bogie-mounted  Test frequency $20 \text{ N}$ Test passed $20 \text{ N}$ Test passed  Test duration per axis $20 \text{ N}$ Test duration per axis  Test directions  X-, Y- and Z-axis  Shock form  Half-sine  Acceleration	Bending test rotation speed	10 rpm
Conductor cross section tensile test $0.5  \mathrm{mm}^2$ Tractive force setpoint $20  \mathrm{N}$ Conductor cross section tensile test $10  \mathrm{mm}^2$ Tractive force setpoint $90  \mathrm{N}$ Conductor cross section tensile test $16  \mathrm{mm}^2$ Tractive force setpoint $100  \mathrm{N}$ Tight fit on carrier $100  \mathrm{N}$ Result of voltage-drop test $100  \mathrm{mm}^2$ Test passed $100  \mathrm{mm}^2$ Requirements, voltage drop $100  \mathrm{mm}^2$ Trest passed $100  \mathrm{mm}^2$ Test specification, oscillation, broadband noise passed $100  \mathrm{mm}^2$ Test specification, oscillation, broadband noise passed $100  \mathrm{mm}^2$ Test frequency passed passed $100  \mathrm{mm}^2$ Test frequency passed pas	Bending test turns	135
Tractive force setpoint 20 N  Conductor cross section tensile test 10 mm²  Tractive force setpoint 90 N  Conductor cross section tensile test 16 mm²  Tractive force setpoint 100 N  Tight fit on carrier NS 32/NS 35  Setpoint 5 N  Result of voltage-drop test Test passed  Requirements, voltage drop $\leq 3.2 \text{ mV}$ Ageing test for screwless modular terminal block temperature cycles 192  Proof of thermal characteristics (needle flame) effective duration 30 s  Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2018-05  Test spectrum Service life test category 2, bogie-mounted 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 directions X-, Y- and Z-axis  Shock form Half-sine  Acceleration 30g	Tensile test result	Test passed
Conductor cross section tensile test 10 mm²  Tractive force setpoint 90 N  Conductor cross section tensile test 16 mm²  Tractive force setpoint 100 N  Tight fit on carrier NS 32/NS 35  Setpoint 5 N  Result of voltage-drop test Test passed 23.2 mV  Ageing test for screwless modular terminal block temperature cycles 192  Proof of thermal characteristics (needle flame) effective duration 30 s  Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2018-05  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 $^3$ )²/Hz  Acceleration 3.12 g  Test duration per axis 5 h  Test directions X-, Y- and Z-axis  Shock form Half-sine  Acceleration 30g	Conductor cross section tensile test	0.5 mm <sup>2</sup>
Tractive force setpoint 90 N  Conductor cross section tensile test 16 mm²  Tractive force setpoint 100 N  Tight fit on carrier NS $32/NS$ $35$ Setpoint 5 N  Result of voltage-drop test Test passed 8 and 100 N  Ageing test for screwless modular terminal block temperature cycles 192  Proof of thermal characteristics (needle flame) effective duration 30 s  Test specification, oscillation, broadband noise DIN EN $50155$ (VDE $0115-200$ ):2018-05  Test spectrum Service life test category 2, bogie-mounted 17 = 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 form Half-sine  Acceleration 30g	Tractive force setpoint	20 N
Conductor cross section tensile test $16 \text{ mm}^2$ Tractive force setpoint $100 \text{ N}$ Tight fit on carrier $NS 32/NS 35$ Setpoint $5 \text{ N}$ Result of voltage-drop test $Test \text{ passed}$ Requirements, voltage drop $\leq 3.2 \text{ mV}$ Ageing test for screwless modular terminal block temperature cycles $192$ Proof of thermal characteristics (needle flame) effective duration $30 \text{ s}$ Test specification, oscillation, broadband noise $DIN \text{ En So155 (VDE 0115-200):2018-05}$ Test spectrum $Service \text{ life test category 2, bogie-mounted}$ Test frequency $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $ASD \text{ level}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $Acceleration$ $3.12 \text{ g}$ Test duration per axis $5 \text{ h}$ Test directions $X \cdot Y \cdot \text{ and } Z \cdot \text{axis}$ $Shock \text{ form}$ $Half\text{-sine}$ $Acceleration$	Conductor cross section tensile test	10 mm²
Tractive force setpoint  Tight fit on carrier  NS 32/NS 35  Setpoint  Fesult of voltage-drop test  Requirements, voltage drop  Ageing test for screwless modular terminal block temperature cycles  Proof of thermal characteristics (needle flame) effective duration  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2018-05  Test spectrum  Service life test category 2, bogie-mounted  Test frequency $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ ACCeleration  3.12 g  Test duration per axis  Test directions  X-, Y- and Z-axis  Shock form  Half-sine  Acceleration  30g	Tractive force setpoint	90 N
Tight fit on carrierNS 32/NS 35Setpoint $5 \text{ N}$ Result of voltage-drop testTest passedRequirements, voltage drop $\leq 3.2 \text{ mV}$ Ageing test for screwless modular terminal block temperature cycles $192$ Proof of thermal characteristics (needle flame) effective duration $30 \text{ s}$ Test specification, oscillation, broadband noiseDIN EN 50155 (VDE 0115-200):2018-05Test spectrumService life test category 2, bogie-mountedTest 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 $X_{-1} Y_{-1}$ and $Z_{-2}$ axisShock formHalf-sineAcceleration $30g$	Conductor cross section tensile test	16 mm²
Setpoint       5 N         Result of voltage-drop test       Test passed         Requirements, voltage drop       ≤ 3.2 mV         Ageing test for screwless modular terminal block temperature cycles       192         Proof of thermal characteristics (needle flame) effective duration       30 s         Test specification, oscillation, broadband noise       DIN EN 50155 (VDE 0115-200):2018-05         Test spectrum       Service life test category 2, bogie-mounted         Test frequency       f₁ = 5 Hz to f₂ = 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 form       Half-sine         Acceleration       30g	Tractive force setpoint	100 N
Result of voltage-drop test Test passed  Requirements, voltage drop $\leq 3.2 \text{ mV}$ Ageing test for screwless modular terminal block temperature cycles 192  Proof of thermal characteristics (needle flame) effective duration 30 s  Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2018-05  Test spectrum Service life test category 2, bogie-mounted f1 = 5 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 $X$ -, $Y$ - and $Z$ -axis  Shock form Half-sine  Acceleration $30 \text{ g}$	Tight fit on carrier	NS 32/NS 35
Requirements, voltage drop $\leq 3.2 \text{ mV}$ Ageing test for screwless modular terminal block temperature cycles 192  Proof of thermal characteristics (needle flame) effective duration 30 s  Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2018-05  Test spectrum Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz}$ 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 $f_1 = 5 \text{ Hz}$ to $f_2 = 350 \text{ Hz}$ Acceleration $f_3 = 5 \text{ Hz}$ Test directions $f_4 = 5 \text{ Hz}$ Test directions $f_5 = 5 \text{ Hz}$ Test directions $f_7 = $	Setpoint	5 N
Ageing test for screwless modular terminal block temperature cycles  Proof of thermal characteristics (needle flame) effective duration  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2018-05  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/s <sup>2</sup> ) <sup>2</sup> /Hz  Acceleration  3.12 g  Test duration per axis  5 h  Test directions  X-, Y- and Z-axis  Shock form  Half-sine  Acceleration  30g	Result of voltage-drop test	Test passed
Proof of thermal characteristics (needle flame) effective duration  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2018-05  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 form  Half-sine  Acceleration  30g	Requirements, voltage drop	≤ 3.2 mV
Test specification, oscillation, broadband noiseDIN EN 50155 (VDE 0115-200):2018-05Test 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 $3.12 \text{ g}$ Test duration per axis $5 \text{ h}$ Test directionsX-, Y- and Z-axisShock formHalf-sineAcceleration $30 \text{ g}$	Ageing test for screwless modular terminal block temperature cycles	192
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 $3.12 \text{ g}$ Test duration per axis $5 \text{ h}$ Test directionsX-, Y- and Z-axisShock formHalf-sineAcceleration $30 \text{ g}$	Proof of thermal characteristics (needle flame) effective duration	30 s
Test frequency $f_1 = 5$ Hz to $f_2 = 250$ HzASD level $6.12 \text{ (m/s}^2)^2\text{/Hz}$ Acceleration $3.12 \text{ g}$ Test duration per axis $5 \text{ h}$ Test directionsX-, Y- and Z-axisShock formHalf-sineAcceleration $30 \text{ g}$	Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2018-05
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 form       Half-sine         Acceleration       30g	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 form         Half-sine           Acceleration         30g	Test frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
Test duration per axis 5 h  Test directions X-, Y- and Z-axis  Shock form Half-sine  Acceleration 30g	ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Test directions X-, Y- and Z-axis Shock form Half-sine Acceleration 30g	Acceleration	3.12 g
Shock form Half-sine Acceleration 30g	Test duration per axis	5 h
Acceleration 30g	Test directions	X-, Y- and Z-axis
· ·	Shock form	Half-sine
Shock duration 18 ms	Acceleration	30g
	Shock duration	18 ms

09/12/2020 Page 2 / 17



### Technical data

### General

Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

#### Dimensions

Width	10.2 mm
Length	77.5 mm
Height NS 35/7,5	73 mm
Height NS 35/15	80.5 mm
Height NS 32	78 mm

### Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	16 mm²
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	10 mm <sup>2</sup>
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, solid min.	0.5 mm²
2 conductors with same cross section, solid max.	6 mm²
2 conductors with same cross section, stranded min.	0.5 mm²
2 conductors with same cross section, stranded max.	4 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum	0.5 mm²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum	6 mm²
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum	0.5 mm <sup>2</sup>
Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum	6 mm²
Stripping length	11 mm
Internal cylindrical gage	B6
Screw thread	M4
Tightening torque, min	1.5 Nm
Tightening torque max	1.8 Nm

### Standards and Regulations

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



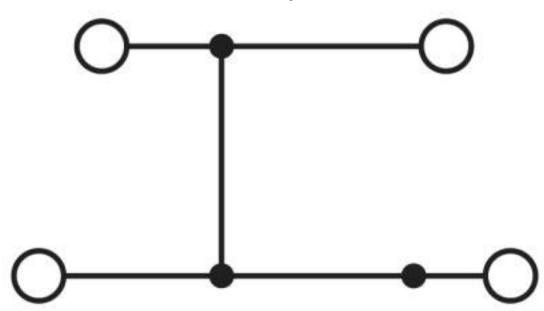
### Technical data

### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings





### Classifications

### eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

#### **ETIM**

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897



### Classifications

ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

#### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

## Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

### Approval details

EAC	EAC	RU C- DE.A*30.B.01742
	F11F	

EAC RU C-DE.BL08.B.00534

### Accessories

Accessories

DIN rail



#### Accessories

DIN rail perforated - NS 32 PERF 2000MM - 1201002



DIN rail perforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 32 UNPERF 2000MM - 1201015



DIN rail, unperforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/7,5 WH PERF 2000MM - 1204119



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver



#### Accessories

DIN rail, unperforated - NS 35/7,5 WH UNPERF 2000MM - 1204122



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/7,5 ZN PERF 2000MM - 1206421



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/7,5 ZN UNPERF 2000MM - 1206434



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored



#### Accessories

End cap - NS 35/7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5



DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver



#### Accessories

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15



#### Accessories

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

#### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

#### End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

#### End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

#### End clamp - E/UK - 1201442



End clamp, width: 9.5 mm, height: 35.3 mm, material: PA, length: 50.5 mm, Mounting on a DIN rail NS 32 or NS 35, color: gray



#### Accessories

End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

#### End cover

End cover - D-UKKB 10 - 3001394



End cover, length: 77.5 mm, width: 1.5 mm, height: 73 mm, color: gray

#### Insertion bridge

Insertion bridge - EB 2-10 - 0203153



Insertion bridge, pitch: 10 mm, number of positions: 2, color: gray

Insertion bridge - EB 3-10 - 0203328



Insertion bridge, pitch: 10 mm, number of positions: 3, color: gray

Insertion bridge - EB 10-10 - 0203137



Insertion bridge, pitch: 10 mm, number of positions: 10, color: gray

#### Insulating sleeve



#### Accessories

Bridge bar isolator - IS-K 10 - 1303337



Bridge bar isolator, color: gray

#### Labeled terminal marker

Zack marker strip - ZB 10 CUS - 0824941



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

#### Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 1053014



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

### Zack marker strip - ZB10,QR:FORTL.ZAHLEN - 1053027



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

#### Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10



#### Accessories

Marker for terminal blocks - ZB10,LGS:U-N - 1053438



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 10 CUS - 0824605



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TM 10 CUS - 0829623



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

#### Screw bridge

Jumper - ISSBI 10-10 - 0301521



Jumper, pitch: 10 mm, number of positions: 10, color: silver

Chain bridge - KB- 10 - 0203205



Chain bridge, pitch: 10 mm, number of positions: 1, color: silver



#### Accessories

Fixed bridge - FBI 2-10 - 0203483



Fixed bridge, pitch: 10 mm, number of positions: 2, color: silver

Fixed bridge - FBI 10-10 - 0203276



Fixed bridge, pitch: 10 mm, number of positions: 10, color: silver

#### Short-circuit connector

Short-circuit connector - KSS 10 - 0310541



Short-circuit connector, pitch: 10 mm, number of positions: 2, color: black

#### Switching jumper

Switching jumper - SB 2-10/15 - 0203234



Switching jumper, pitch: 15 mm, number of positions: 2, color: silver

#### Terminal marking

Marker card - SBS10:UNBEDRUCKT - 1007248



Marker card, Card, white, unlabeled, can be labeled with: Marker pen, perforated, mounting type: snap into tall marker groove, snap into flat marker groove, for terminal block width: 10 mm, lettering field size: 6 x 10.1 mm, Number of individual labels: 250



#### Accessories

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 10 - 0818069



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TM 10 - 0829142



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

#### Test socket

Female test connector - PSBJ 4/15/6 FARBLOS - 0303419



Female test connector, color: transparent

Female test connector - PSBJ 4/15/6 WH - 0303312



Female test connector, color: white



### Accessories

Female test connector - PSBJ 4/15/6 RD - 0303325



Female test connector, color: red

Female test connector - PSBJ 4/15/6 BU - 0303354



Female test connector, color: blue

Female test connector - PSBJ 4/15/6 YE - 0303367



Female test connector, color: yellow

Female test connector - PSBJ 4/15/6 GN - 0303370



Female test connector, color: green

Female test connector - PSBJ 4/15/6 VT - 0303383



Female test connector, color: violet



#### Accessories

Female test connector - PSBJ 4/15/6 GY - 0303396



Female test connector, color: gray

Female test connector - PSBJ 4/15/6 BK - 0303406



Female test connector, color: black

Female test connector - PSB 4/7/6 - 0303299



Female test connector, color: silver

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