

1912087

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PCB connector, nominal cross section: 2.5 mm², color: green, nominal current: 16 A (see derating curve), rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Socket, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: MSTB 2,5 HC/..-STF, pitch: 5 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON MSTB 2,5 HC, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Screwable flange for superior mechanical stability

Commercial data

Item number	1912087
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA03
Product key	AACAFB
GTIN	4017918191238
Weight per piece (including packing)	6.36 g
Weight per piece (excluding packing)	6.002 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	MSTB 2,5 HC/STF
Product line	COMBICON Connectors M
Туре	Standard
Number of positions	3
Pitch	5 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Mounting type	Screw flange

Electrical properties

Properties

Nominal current I _N	16 A (see derating curve)
Nominal voltage U _N	320 V
Contact resistance	0.6 mΩ
Rated voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Туре	Standard
Connector system	COMBICON MSTB 2,5 HC
Nominal cross section	2.5 mm²
Contact connection type	Socket

Interlock

Locking type	Screw locking mechanism
Mounting type	Screw flange
Tightening torque	0.3 Nm

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm² 2.5 mm²
Conductor cross-section flexible	0.2 mm ² 2.5 mm ²



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Conductor cross-section AWG	24 12
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²
2 conductors with same cross section, solid	0.2 mm² 1 mm²
2 conductors with same cross section, flexible	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Cylindrical gauge a x b / diameter	2.8 mm x 2.0 mm / 2.4 mm
Stripping length	7 mm
Drive form screw head	Slotted (L)
Tightening torque	0.5 Nm 0.6 Nm
pecifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
pecifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	hot-dip tin-plated
Metal surface terminal point (top layer)	Tin (4 - 8 μm Sn)
Metal surface contact area (top layer)	Tin (4 - 8 μm Sn)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Dimensions



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Dimensional drawing	h
Pitch	5 mm
Width [w]	24.4 mm
Height [h]	15 mm
Length [I]	18.2 mm
ounting	
Flange	
Tightening torque	0.3 Nm
otes	
Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
echanical tests	
Test for conductor damage and slackening Specification	IFC 60999-1:1999-11
Test for conductor damage and slackening Specification	IEC 60999-1:1999-11 Test passed
Test for conductor damage and slackening Specification Result	IEC 60999-1:1999-11 Test passed
Test for conductor damage and slackening Specification Result Pull-out test	Test passed
Test for conductor damage and slackening Specification Result Pull-out test Specification	Test passed IEC 60999-1:1999-11
Test for conductor damage and slackening Specification Result Pull-out test	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification Result	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N IEC 60512-13-2:2006-02 Test passed
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification Result No. of cycles	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification Result	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N IEC 60512-13-2:2006-02 Test passed 50
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification Result No. of cycles Insertion strength per pos. approx. Withdraw strength per pos. approx.	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N IEC 60512-13-2:2006-02 Test passed 50 4 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification Result No. of cycles Insertion strength per pos. approx. Withdraw strength per pos. approx.	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N IEC 60512-13-2:2006-02 Test passed 50 4 N 3 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification Result No. of cycles Insertion strength per pos. approx. Withdraw strength per pos. approx. Torque test Specification	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N IEC 60512-13-2:2006-02 Test passed 50 4 N
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification Result No. of cycles Insertion strength per pos. approx. Withdraw strength per pos. approx. Torque test Specification Resistance of inscriptions	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N IEC 60512-13-2:2006-02 Test passed 50 4 N 3 N IEC 60999-1:1999-11
Test for conductor damage and slackening Specification Result Pull-out test Specification Conductor cross-section/conductor type/tractive force setpoint/actual value Insertion and withdrawal forces Specification Result No. of cycles Insertion strength per pos. approx. Withdraw strength per pos. approx. Torque test Specification	Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 2.5 mm² / solid / > 50 N 2.5 mm² / flexible / > 50 N IEC 60512-13-2:2006-02 Test passed 50 4 N 3 N



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Test passed	pecification	IEC 60512-13-5:2006-02
Specification IEC 60512-1-1;2002-02 Result Test passed mension check IEC 60512-1-2;2002-02 Result Test passed irronmental and real-life conditions IEC 600512-1-2;2002-02 Result Test passed Image: Passed <t< td=""><td>Result</td><td>Test passed</td></t<>	Result	Test passed
Result Test passed dimension check Specification IEC 60512-1-2:2002-02 Result Test passed Arronmental and real-life conditions Arronmental and real-life conditions Iteration test Specification IEC 60068-2-6:2007-12 Frequency 10 - 150 - 10 Hz Sweep speed 1 octave/min Amplitude 0.35 mm (10 Hz 60.1 Hz) Acceleration 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Test directions X., Y- and Z-axis unrability test Specification Impulse withstand voltage at sea level 4.8 kV Contact resistance R₁ 0.6 mΩ Contact resistance R₂ 0.7 mΩ Insulation resistance, neighboring positions > 5 MΩ Illimatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ 8O₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h 2.21 kV thocks Specification IEC 60068-2-27:2008-02 Pulse shape	/isual inspection	
Specification IEC 60512-1-2:2002-02 Test passed	Specification	IEC 60512-1-1:2002-02
Specification IEC 60512-1-2:2002-02 Result Test passed Application test Specification IEC 60068-2-6:2007-12 Frequency 10 - 150 - 10 Hz Sweep speed 1 octave/min Amplitude 0.35 mm (10 Hz 60.1 Hz) Acceleration 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Test directions X-, Y- and Z-axis Applitude 4.8 kV Contact resistance R₁ 0.6 mΩ Contact resistance R₂ 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions 50 6988:1985-02 Corrosive stress 0.2 dm² SO₂ on 300 dm³/40 "C/1 cycle Thermal stress 100 "C/168 h Power-frequency withstand voltage Semi-sinusoidal Acceleration 18 ms Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) Thermal stress 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) Test directions Test directions Test directions Test directions Test directions Acceleration 30g Acceleration 30g Ambient temperature (operation) -40 "C 100 "C (dependent on the derating curve) Test directions Acceleration 40 "C 100 "C (dependent on the derating curve) Test directions Acceleration 40 "C 100 "C (dependent on the derating curve) Test directions Acceleration 40 "C 100 "C (dependent on the derating curve)	Result	Test passed
Result Test passed	Dimension check	
itronmental and real-life conditions itroation test Specification IEC 60068-2-6:2007-12 Frequency 10 - 150 - 10 Hz Sweep speed 1 octave/min Amplitude 0.35 mm (10 Hz 60.1 Hz) Acceleration 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Test directions X-, Y- and Z-axis Parability test Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 4.8 kV Contact resistance R₁ 0.6 mΩ Contact resistance R₂ 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions > 5 MΩ Similaric test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV shocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.)	Specification	IEC 60512-1-2:2002-02
Specification IEC 60068-2-6:2007-12	Result	Test passed
Specification IEC 60068-2-6:2007-12		
Sweep speed 1 octave/min Amplitude 0.35 mm (10 Hz 60.1 Hz) Acceleration 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Test directions X-, Y- and Z-axis Probability test		IEC 60068-2-6:2007-12
Amplitude 0.35 mm (10 Hz 60.1 Hz) Acceleration 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Test directions X-, Y- and Z-axis Acceleration IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 4.8 kV Contact resistance R₁ 0.6 mΩ Contact resistance R₂ 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions > 5 MΩ Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 12.21 kV Acceleration IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.)	Frequency	10 - 150 - 10 Hz
Acceleration 5g (60.1 Hz 150 Hz) Test duration per axis 2.5 h Test directions X-, Y- and Z-axis Test directions IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 4.8 kV Contact resistance R₁ 0.6 mΩ Contact resistance R₂ 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions 5 MΩ Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) Test directions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Sweep speed	1 octave/min
Test duration per axis 2.5 h	Amplitude	0.35 mm (10 Hz 60.1 Hz)
Test directions X-, Y- and Z-axis Aurability test Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 4.8 kV Contact resistance R ₁ 0.6 mΩ Contact resistance R ₂ 0.7 mΩ Insertion/withdrawal cycles Insulation resistance, neighboring positions Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage Acceleration IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.)	Acceleration	5g (60.1 Hz 150 Hz)
Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 4.8 kV Contact resistance R ₁ 0.6 mΩ Contact resistance R ₂ 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions > 5 MΩ Similatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV Anocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.)	Test duration per axis	2.5 h
Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 4.8 kV Contact resistance R1 0.6 mΩ Contact resistance R2 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions > 5 MΩ Immatic test ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV hocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) Imbient conditions -40 °C 100 °C (dependent on the derating curve)	Test directions	X-, Y- and Z-axis
Specification IEC 60512-9-1:2010-03 Impulse withstand voltage at sea level 4.8 kV Contact resistance R1 0.6 mΩ Contact resistance R2 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions > 5 MΩ Immatic test Specification Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV hocks Specification Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) Imbient conditions -40 °C 100 °C (dependent on the derating curve)	urability test	
Contact resistance R_1 0.6 mΩ Contact resistance R_2 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions > 5 MΩ climatic test Specification Iso 6988:1985-02 Corrosive stress Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV shocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) ambient conditions -40 °C 100 °C (dependent on the derating curve)		IEC 60512-9-1:2010-03
Contact resistance R2 0.7 mΩ Insertion/withdrawal cycles 50 Insulation resistance, neighboring positions > 5 MΩ Ilimatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV hocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Impulse withstand voltage at sea level	4.8 kV
Insertion/withdrawal cycles Insulation resistance, neighboring positions > 5 MΩ Ilimatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV hocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Contact resistance R ₁	0.6 mΩ
Insulation resistance, neighboring positions > 5 MΩ Ilimatic test Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV hocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Contact resistance R ₂	0.7 mΩ
Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV hocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Insertion/withdrawal cycles	50
Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV hocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Insulation resistance, neighboring positions	> 5 MΩ
Specification ISO 6988:1985-02 Corrosive stress 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV hocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	limatic test	
Thermal stress 100 °C/168 h Power-frequency withstand voltage 2.21 kV chocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Specification	ISO 6988:1985-02
Power-frequency withstand voltage 2.21 kV Chocks Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) Ambient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Thermal stress	100 °C/168 h
Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Power-frequency withstand voltage	2.21 kV
Specification IEC 60068-2-27:2008-02 Pulse shape Semi-sinusoidal Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	hocks	
Pulse shape Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) mbient conditions Ambient temperature (operation) Semi-sinusoidal 30g X-, Y- and Z-axis (pos. and neg.)	Specification	IEC 60068-2-27:2008-02
Acceleration 30g Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) Imbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	•	Semi-sinusoidal
Shock duration 18 ms Test directions X-, Y- and Z-axis (pos. and neg.) Imbient conditions Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)		30g
Ambient conditions -40 °C 100 °C (dependent on the derating curve)	Shock duration	
Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	Test directions	X-, Y- and Z-axis (pos. and neg.)
Ambient temperature (operation) -40 °C 100 °C (dependent on the derating curve)	ambient conditions	
		-40 °C 100 °C (dependent on the derating curve)
	Ambient temperature (storage/transport)	-40 °C 70 °C



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Type of packaging

Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
-1	
ctrical tests	
hermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	12
nsulation resistance	
Specification	IEC 60512-3-1:2002-02
•	> 5 MΩ
Insulation resistance, neighboring positions	> 2 MIT
ir clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	3 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

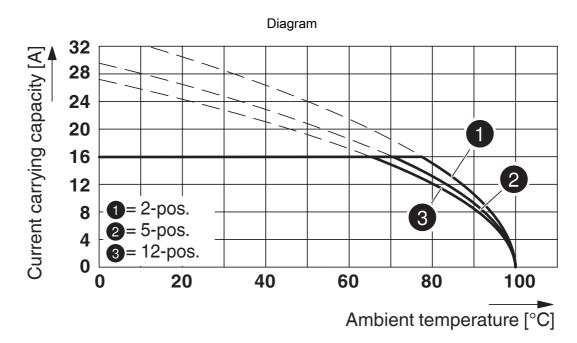
packed in cardboard



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Drawings



Type: MSTB 2,5 HC/..-STF with MSTBV 2,5 HC/..-GF



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1912087

CULus Recog Approval ID: E60	CULus Recognized Approval ID: E60425-19931011					
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²		
В						
	300 V	16 A	30 - 12	-		
D						
	300 V	10 A	30 - 12	-		

	VDE approval of drawings Approval ID: 40050079				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		250 V	16 A	-	0.2 - 2.5



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Classifications

ECLASS

	ECLASS-13.0	27460202	
	ECLASS-15.0	27460202	
ETIM			
	ETIM 9.0	EC002638	
UN	ISPSC		

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UNSPSC 21.0 39121400



1912087

https://www.phoenixcontact.com/us/products/1912087

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions	
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	
EF3.0 Climate Change		
CO2e kg	0.071 kg CO2e	

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