

1712887

https://www.phoenixcontact.com/us/products/1712887

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB connector, nominal cross section: 1.5 mm², color: green, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 20, number of rows: 2, number of positions: 10, number of connections: 20, product range: DFMC 1,5/..-STF, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Insertion in base strip, conductor/PCB connection direction: 0 °, plug-in system: COMBICON DFMC 1,5, locking: Screw locking mechanism, mounting method: Screw flange, type of packaging: packed in cardboard

### Your advantages

- · Time saving push-in connection, tools not required
- Defined contact force ensures that contact remains stable over the long term
- · Intuitive operation due to color-coded actuating push button
- · Optimized for tight installation situations: operation and conductor connection from one direction
- · Screwable flange for superior mechanical stability

#### Commercial data

Item number	1712887
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AABFJB
GTIN	4055626299389
Weight per piece (including packing)	11.01 g
Weight per piece (excluding packing)	10.1 g
Country of origin	DE



1712887

https://www.phoenixcontact.com/us/products/1712887

### Technical data

#### Product properties

Product type	PCB connector
Product family	DFMC 1,5/STF
Product line	COMBICON Connectors S
Number of positions	10
Pitch	3.5 mm
Number of connections	20
Number of rows	2
Number of potentials	20

#### Electrical properties

#### **Properties**

Nominal current I <sub>N</sub>	8 A
Nominal voltage U <sub>N</sub>	160 V
Contact resistance	2.1 mΩ
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

#### Connection data

#### Connection technology

Туре	Plug component
Connector system	COMBICON DFMC 1,5
Nominal cross section	1.5 mm²
Contact connection type	Socket

#### Interlock

Locking type	Screw locking mechanism	
Mounting type	Screw flange	
Tightening torque	0.2 Nm	

#### Conductor connection

Connection method	Push-in spring connection
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm² 1.5 mm²
Conductor cross-section flexible	0.2 mm² 1.5 mm²
Conductor cross-section AWG	24 16
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²



1712887

Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 0.75 mm²
Cylindrical gauge a x b / diameter	2.4 mm x 1.5 mm / 1.6 mm
Stripping length	10 mm
Specifications for ferrules without insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules without insulating collar, according to DIN 46228-1	Cross section: 0.25 mm²; Length: 7 mm
icitules without insulating conal, according to bits 40220-1	Cross section: 0.25 mm; Length: 7 mm
	Cross section: 0.5 mm²; Length: 8 mm 10 mm
	Cross section: 0.75 mm²; Length: 8 mm 10 mm
	Cross section: 1 mm²; Length: 8 mm 10 mm
	Cross section: 1.5 mm²; Length: 10 mm
	oroco cocton. No min , Longan To min
Specifications for ferrules with insulating collar	
recommended crimping tool	1212034 CRIMPFOX 6
ferrules with insulating collar, according to DIN 46228-4	Cross section: 0.14 mm <sup>2</sup> ; Length: 8 mm
	Cross section: 0.25 mm²; Length: 8 mm 10 mm
	Cross section: 0.34 mm <sup>2</sup> ; Length: 8 mm 10 mm
	Cross section: 0.5 mm <sup>2</sup> ; Length: 8 mm 10 mm
	Cross section: 0.75 mm²; Length: 10 mm
laterial specifications  Material data - contact	WEEE/DoUS compliant free of whickers according to IEC
Material data - contact	WEEE/DoUS compliant from of whickers according to IEC
·	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Material data - contact	
Material data - contact  Note	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated
Material data - contact  Note  Contact material	60068-2-82/JEDEC JESD 201 Cu alloy
Material data - contact  Note  Contact material  Surface characteristics	60068-2-82/JEDEC JESD 201 Cu alloy hot-dip tin-plated
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)	60068-2-82/JEDEC JESD 201  Cu alloy  hot-dip tin-plated  Tin (4 - 8 µm Sn)
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)	60068-2-82/JEDEC JESD 201  Cu alloy  hot-dip tin-plated  Tin (4 - 8 µm Sn)
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing	60068-2-82/JEDEC JESD 201  Cu alloy  hot-dip tin-plated  Tin (4 - 8 µm Sn)  Tin (4 - 8 µm Sn)
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)	60068-2-82/JEDEC JESD 201  Cu alloy  hot-dip tin-plated  Tin (4 - 8 μm Sn)  Tin (4 - 8 μm Sn)  green (6021)
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)  Insulating material	60068-2-82/JEDEC JESD 201  Cu alloy  hot-dip tin-plated  Tin (4 - 8 μm Sn)  Tin (4 - 8 μm Sn)  green (6021)
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)  Insulating material  Insulating material group	60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn)  green (6021) PA
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112	60068-2-82/JEDEC JESD 201  Cu alloy  hot-dip tin-plated  Tin (4 - 8 μm Sn)  Tin (4 - 8 μm Sn)  green (6021)  PA  I  600
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94	60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated Tin (4 - 8 µm Sn) Tin (4 - 8 µm Sn)  green (6021) PA I 600 V0
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94  Glow wire flammability index GWFI according to EN 60695-2-12  Glow wire ignition temperature GWIT according to EN 60695-2-	60068-2-82/JEDEC JESD 201  Cu alloy  hot-dip tin-plated  Tin (4 - 8 μm Sn)  Tin (4 - 8 μm Sn)  green (6021)  PA  I  600  V0  850
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94  Glow wire flammability index GWFI according to EN 60695-2-12  Glow wire ignition temperature GWIT according to EN 60695-2-13  Temperature for the ball pressure test according to EN 60695-	60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn)  Tin (4 - 8 μm Sn)  green (6021)  PA  I  600  V0  850  775
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94  Glow wire flammability index GWFI according to EN 60695-2-12  Glow wire ignition temperature GWIT according to EN 60695-2-13  Temperature for the ball pressure test according to EN 60695-10-2	60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn) Tin (4 - 8 μm Sn)  green (6021)  PA I 600 V0 850 775 125 °C
Material data - contact  Note  Contact material  Surface characteristics  Metal surface terminal point (top layer)  Metal surface contact area (top layer)  Material data - housing  Color (Housing)  Insulating material  Insulating material group  CTI according to IEC 60112  Flammability rating according to UL 94  Glow wire flammability index GWFI according to EN 60695-2-12  Glow wire ignition temperature GWIT according to EN 60695-2-13  Temperature for the ball pressure test according to EN 60695-10-2  Material data – actuating element	60068-2-82/JEDEC JESD 201  Cu alloy hot-dip tin-plated Tin (4 - 8 μm Sn)  Tin (4 - 8 μm Sn)  green (6021)  PA  I  600  V0  850  775



1712887

CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
mensions	
Dimensional drawing	h
Pitch	3.5 mm
Width [w]	42 mm
Height [h]	13.25 mm
Length [I]	23.35 mm
ounting	
Mounting type	Insertion in base strip
Flange	
Tightening torque	0.2 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.
Notes on operation echanical tests	switching power (COC). During designated use, they must not be
echanical tests	switching power (COC). During designated use, they must not be
echanical tests Conductor connection	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
echanical tests  Conductor connection  Specification	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11
echanical tests Conductor connection	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
echanical tests  Conductor connection  Specification  Result  Test for conductor damage and slackening	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11
echanical tests  Conductor connection Specification Result  Test for conductor damage and slackening Specification	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11
echanical tests  Conductor connection  Specification  Result  Test for conductor damage and slackening	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11  Test passed
echanical tests  Conductor connection Specification Result  Test for conductor damage and slackening Specification	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11
echanical tests  Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed
echanical tests  Conductor connection Specification Result  Test for conductor damage and slackening Specification Result  Repeated connection and disconnection Specification	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed
echanical tests  Conductor connection Specification Result  Test for conductor damage and slackening Specification Result  Repeated connection and disconnection Specification Result	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed
echanical tests  Conductor connection  Specification  Result  Test for conductor damage and slackening  Specification  Result  Repeated connection and disconnection  Specification  Result  Pull-out test	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11 Test passed  IEC 60999-1:1999-11 Test passed  IEC 60999-1:1999-11 Test passed
echanical tests  Conductor connection Specification Result  Test for conductor damage and slackening Specification Result  Repeated connection and disconnection Specification Result  Pull-out test Specification	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed  IEC 60999-1:1999-11  Test passed
echanical tests  Conductor connection Specification Result  Test for conductor damage and slackening Specification Result  Repeated connection and disconnection Specification Result  Pull-out test Specification Conductor cross-section/conductor type/tractive force	switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.  IEC 60999-1:1999-11 Test passed  IEC 60999-1:1999-11 Test passed  IEC 60999-1:1999-11 Test passed



1712887

Shocks

Specification

https://www.phoenixcontact.com/us/products/1712887

Specification	IEC 60512-13-2:2006-02		
Result	Test passed		
No. of cycles	25		
Insertion strength per pos. approx.	3 N		
Withdraw strength per pos. approx.	2 N		
Resistance of inscriptions			
Specification	IEC 60068-2-70:1995-12		
Result	Test passed		
Polarization and coding			
Specification	IEC 60512-13-5:2006-02		
Result	Test passed		
Visual inspection			
Specification	IEC 60512-1-1:2002-02		
Result	Test passed		
Dimension check			
Charification	IFC 60542 4 2:2002 02		
	IEC 60512-1-2:2002-02 Test passed		
Result vironmental and real-life conditions			
Result vironmental and real-life conditions Vibration test	Test passed		
Result  vironmental and real-life conditions  Vibration test  Specification	Test passed  IEC 60068-2-6:2007-12		
Result  vironmental and real-life conditions  vibration test  Specification  Frequency	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min		
Result  vironmental and real-life conditions  /ibration test  Specification  Frequency  Sweep speed  Amplitude	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)  5g (60.1 Hz 150 Hz)		
Result  vironmental and real-life conditions  vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)  5g (60.1 Hz 150 Hz)  2.5 h		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration  Test duration per axis	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)  5g (60.1 Hz 150 Hz)  2.5 h		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration  Test duration per axis  Test directions  Durability test	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)  5g (60.1 Hz 150 Hz)  2.5 h  X-, Y- and Z-axis		
Result  vironmental and real-life conditions  Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions  Durability test Specification	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)  5g (60.1 Hz 150 Hz)  2.5 h  X-, Y- and Z-axis		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration  Test duration per axis  Test directions  Durability test  Specification  Impulse withstand voltage at sea level	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)  5g (60.1 Hz 150 Hz)  2.5 h  X-, Y- and Z-axis  IEC 60512-9-1:2010-03  2.95 kV		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration  Test duration per axis  Test directions  Durability test  Specification  Impulse withstand voltage at sea level  Contact resistance R <sub>1</sub>	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)  5g (60.1 Hz 150 Hz)  2.5 h  X-, Y- and Z-axis  IEC 60512-9-1:2010-03  2.95 kV  2.1 mΩ		
Result  Avironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration  Test duration per axis  Test directions  Durability test  Specification  Impulse withstand voltage at sea level  Contact resistance R <sub>1</sub> Contact resistance R <sub>2</sub>	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis  IEC 60512-9-1:2010-03 2.95 kV 2.1 mΩ 2.4 mΩ		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration  Test duration per axis  Test directions  Durability test  Specification  Impulse withstand voltage at sea level  Contact resistance R <sub>1</sub> Contact resistance R <sub>2</sub> Insertion/withdrawal cycles	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis  IEC 60512-9-1:2010-03 2.95 kV 2.1 mΩ 2.4 mΩ		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration  Test duration per axis  Test directions  Durability test  Specification  Impulse withstand voltage at sea level  Contact resistance R <sub>1</sub> Contact resistance R <sub>2</sub> Insertion/withdrawal cycles  Climatic test	Test passed  IEC 60068-2-6:2007-12  10 - 150 - 10 Hz  1 octave/min  0.35 mm (10 Hz 60.1 Hz)  5g (60.1 Hz 150 Hz)  2.5 h  X-, Y- and Z-axis  IEC 60512-9-1:2010-03  2.95 kV  2.1 mΩ  2.4 mΩ  25		
Result  vironmental and real-life conditions  Vibration test  Specification  Frequency  Sweep speed  Amplitude  Acceleration  Test duration per axis  Test directions  Durability test  Specification  Impulse withstand voltage at sea level  Contact resistance R <sub>1</sub> Contact resistance R <sub>2</sub> Insertion/withdrawal cycles  Climatic test  Specification	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis  IEC 60512-9-1:2010-03 2.95 kV 2.1 mΩ 2.4 mΩ 25		

IEC 60068-2-27:2008-02



1712887

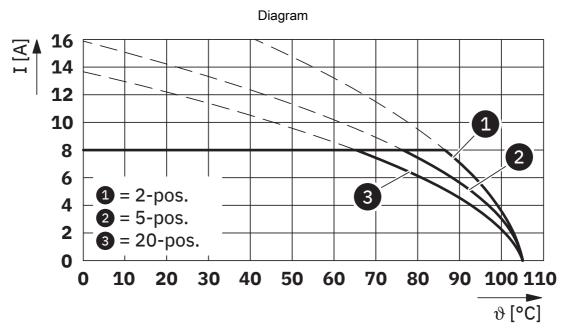
Dulas shans	Semi-sinusoidal
Pulse shape Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
Test directions	Λ-, 1- and Z-axis (μος. and neg.)
nbient conditions	
Ambient temperature (operation)	-40 °C 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 70 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C
etrical tests	
nermal test   Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	20
sulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
emperature cycles	
Specification	IEC 60999-1:1999-11
Result	Test passed
Result r clearances and creepage distances	Test passed
	Test passed  IEC 60664-1:2007-04
r clearances and creepage distances	
r clearances and creepage distances   Specification	IEC 60664-1:2007-04
r clearances and creepage distances   Specification Insulating material group	IEC 60664-1:2007-04
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112)	IEC 60664-1:2007-04 I CTI 600
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3)	IEC 60664-1:2007-04 I CTI 600 160 V
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3)	IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3)	IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3)	IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2)	IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm 160 V
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2)	IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm 160 V 2.5 kV
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2)	IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm 160 V 2.5 kV 1.5 mm
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2)	IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm 160 V 2.5 kV 1.5 mm 1.5 mm
r clearances and creepage distances   Specification Insulating material group Comparative tracking index (IEC 60112) Rated insulation voltage (III/3) Rated surge voltage (III/3) minimum clearance value - non-homogenous field (III/3) minimum creepage distance (III/3) Rated insulation voltage (III/2) Rated surge voltage (III/2) minimum clearance value - non-homogenous field (III/2) minimum creepage distance (III/2) Rated insulation voltage (III/2) Rated insulation voltage (III/2)	IEC 60664-1:2007-04 I CTI 600 160 V 2.5 kV 1.5 mm 2 mm 160 V 2.5 kV 1.5 mm 15 mm 320 V



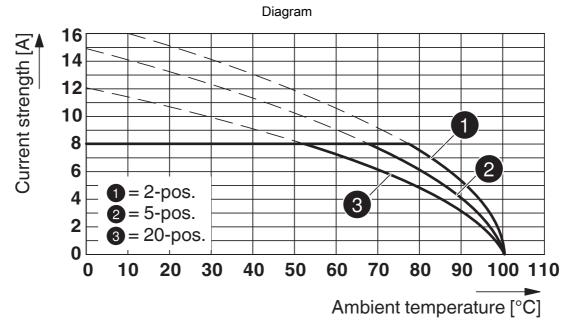
1712887

https://www.phoenixcontact.com/us/products/1712887

### Drawings



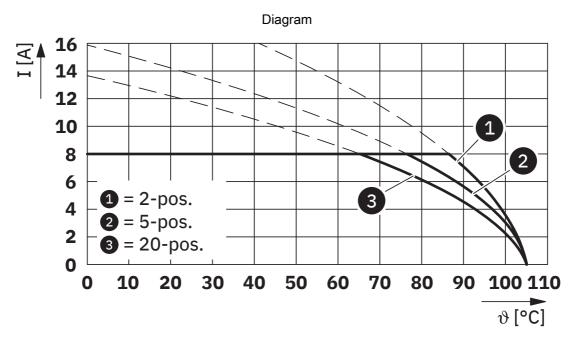
Type: DFMC 1,5/...-STF-3,5 with DMC 1,5/...-G1F-3,5-LR P...THR



Type: DFMC 1,5/...-STF-3,5 with DMCV 1,5/...-G1F-3,5-LR P...THR



1712887



Type: DFMC 1,5/...-STF-3,5 with DMC 1,5/...-G2F-3,5-LR P...THR



1712887

https://www.phoenixcontact.com/us/products/1712887

### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1712887

CULus Recognized Approval ID: E60425-19920306						
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>		
В						
Field wiring	300 V	8 A	24 - 16	-		
С						
Factory wiring	50 V	8 A	24 - 16	-		
D						
Field wiring	300 V	8 A	24 - 16	-		

VDE	VDE report with production monitoring Approval ID: 40038423						
	Nominal voltage U <sub>N</sub> Nominal current I <sub>N</sub> Cross section AWG Cross section mm <sup>2</sup>						
keine	ne						
	160 V 8 A - 0.2 - 1.5						



1712887

https://www.phoenixcontact.com/us/products/1712887

### Classifications

#### **ECLASS**

	ECLASS-13.0	27460202	
	ECLASS-15.0	27460202	
	ECLASS-15.0	27460202	
ETIM			
	ETIM 9.0	EC002638	
UNSPSC			
	UNSPSC 21.0	39121400	



1712887

https://www.phoenixcontact.com/us/products/1712887

### 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%		

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com