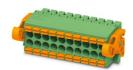


1715606

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PCB connector, nominal cross section: 1.5 mm², color: gentian blue, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Sn, contact connection type: Socket, number of potentials: 16, number of rows: 2, number of positions: 8, number of connections: 16, product range: DFMC 1,5/..-ST-LR, 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: Lock-and-release locking system, mounting method: Lock & Release ejector lever, 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
- · Automatic locking and intuitive release through Lock and Release operating lever in contrasting color

Commercial data

Item number	1715606	
Packing unit	50 pc	
Minimum order quantity	50 pc	
Note	Made to order (non-returnable)	
Product key	AABFJC	
GTIN	4055626407265	
Weight per piece (including packing)	9.62 g	
Weight per piece (excluding packing)	9.23 g	
Country of origin	DE	



1715606

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Technical data

Product properties

Product type	PCB connector
Product family	DFMC 1,5/ST-LR
Product line	COMBICON Connectors S
Number of positions	8
Pitch	3.5 mm
Number of connections	16
Number of rows	2
Number of potentials	16

Electrical properties

Properties

Nominal current I _N	8 A
Nominal voltage U _N	160 V
Contact resistance	2 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

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

Interlock

Locking type	Lock-and-release locking system	
Mounting flange	Lock & Release ejector lever	

Conductor connection

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 mm ² 1.5 mm ²
Conductor cross section AWG	24 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.14 mm² 0.75 mm²



1715606

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Insulating material group

CTI according to IEC 60112

Culindrical gauge a v.h. / diameter	24	
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	
	Cross section: 0.34 mm²; 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 mm ² ; Length: 8 mm 10 mm	
	Cross section: 1.5 mm²; Length: 10 mm	
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 mm²; Length: 8 mm	
	Cross section: 0.25 mm²; Length: 8 mm 10 mm	
	Cross section: 0.34 mm²; Length: 8 mm 10 mm	
	Cross section: 0.5 mm²; Length: 8 mm 10 mm	
	Cross section: 0.75 mm²; Length: 10 mm	
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)		
Insulating material	gentian blue (5010)	
Insulating material Insulating material group	gentian blue (5010)	
Insulating material Insulating material group CTI according to IEC 60112	gentian blue (5010)	
Insulating material group	gentian blue (5010) PA	
Insulating material group CTI according to IEC 60112	gentian blue (5010) PA I 600	
Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94	gentian blue (5010) PA I 600 V0	
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-	gentian blue (5010) PA I 600 V0 850	
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	gentian blue (5010) PA I 600 V0 850 775	
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-	gentian blue (5010) PA I 600 V0 850 775	
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	gentian blue (5010) PA I 600 V0 850 775	

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1715606

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Flammability rating according to UL 94	V0		
mensions			
Dimensional drawing	h		
Pitch	3.5 mm		
Width [w]	34.9 mm		
Height [h]	13.25 mm		
Length [I]	23.35 mm		
ounting			
Mounting type	Insertion in base strip		
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	plagged in or disconnected when earlying voltage of direct load		
echanical tests Conductor connection Specification			
Conductor connection Specification	IEC 60999-1:1999-11		
Conductor connection Specification Result			
Conductor connection Specification Result Test for conductor damage and slackening	IEC 60999-1:1999-11 Test passed		
Conductor connection Specification Result Test for conductor damage and slackening Specification	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11		
Conductor connection Specification Result Test for conductor damage and slackening Specification Result	IEC 60999-1:1999-11 Test passed		
Conductor connection Specification Result Test for conductor damage and slackening Specification	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	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed		
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification	IEC 60999-1:1999-11 Test passed 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 Specification Result	IEC 60999-1:1999-11 Test passed 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 Specification Result Pull-out test Specification Conductor cross section/conductor type/tractive force	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed		
Conductor connection Specification Result Test for conductor damage and slackening Specification Result Repeated connection and disconnection Specification Result Pull-out test Specification	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed		
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	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 O.2 mm² / solid / > 10 N		
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	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N		
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	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N		
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 setpoint/actual value	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N		
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 setpoint/actual value	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N		
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 setpoint/actual value Insertion and withdrawal forces Specification	IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 Test passed IEC 60999-1:1999-11 0.2 mm² / solid / > 10 N 0.2 mm² / flexible / > 10 N 1.5 mm² / solid / > 40 N 1.5 mm² / flexible / > 40 N		



1715606

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Withdraw strength per pos. approx.	2 N
Resistance of inscriptions	IEC 00000 0 70,400E 40
Specification IEC 60068-2-70:1995-12 Result Test passed	
Result	rest passed
Polarization and coding	
Specification	IEC 60512-13-5:2006-02
Result	Test passed
/isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
bration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
	2.2
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Amplitude Acceleration	0.35 mm (10 Hz 60.1 Hz) 50 m/s² (60.1 Hz 150 Hz)
Acceleration	50 m/s² (60.1 Hz 150 Hz)
Acceleration Test duration per axis Test directions	50 m/s² (60.1 Hz 150 Hz) 2.5 h
Acceleration Test duration per axis Test directions	50 m/s² (60.1 Hz 150 Hz) 2.5 h
Acceleration Test duration per axis Test directions Ourability test	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis
Acceleration Test duration per axis Test directions Ourability test Specification	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03
Acceleration Test duration per axis Test directions Ourability test Specification Impulse withstand voltage at sea level	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV
Acceleration Test duration per axis Test directions Purability test Specification Impulse withstand voltage at sea level Contact resistance R ₁	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25
Acceleration Test duration per axis Test directions Ourability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25
Acceleration Test duration per axis Test directions Ourability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions	50 m/s^2 (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Dimatic test Specification Corrosive stress	50 m/s^2 (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle 105 °C/168 h
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle 105 °C/168 h
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage	50 m/s^2 (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm³ SO ₂ on 300 dm³/40 °C/1 cycle 105 °C/168 h 1.39 kV
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level Contact resistance R ₁ Contact resistance R ₂ Insertion/withdrawal cycles Insulation resistance, neighboring positions Climatic test Specification Corrosive stress Thermal stress Power-frequency withstand voltage Ambient conditions Ambient temperature (operation)	50 m/s² (60.1 Hz 150 Hz) 2.5 h X-, Y- and Z-axis IEC 60512-9-1:2010-03 2.95 kV 2 mΩ 2.3 mΩ 25 > 5 MΩ ISO 6988:1985-02 0.2 dm³ SO₂ on 300 dm³/40 °C/1 cycle 105 °C/168 h 1.39 kV -40 °C 105 °C (dependent on the derating curve)



1715606

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Electrical tests

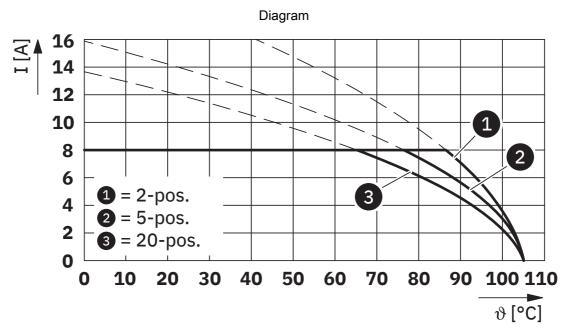
Specification	IEC 60512-5-1:2002-02	
Tested number of positions	20	
sulation resistance		
Specification	IEC 60512-3-1:2002-02	
Insulation resistance, neighboring positions	> 5 MΩ	
emperature cycles		
Specification	IEC 60999-1:1999-11	
Result	Test passed	
Air clearances and creepage distances		
Specification	IEC 60664-1:2007-04	
Insulating material group	I	
Comparative tracking index (IEC 60112)	CTI 600 160 V	
Rated insulation voltage (III/3)		
Rated surge voltage (III/3)	2.5 kV	
minimum clearance value - non-homogenous field (III/3)	1.5 mm	
minimum creepage distance (III/3)	2 mm	
Rated insulation voltage (III/2)	160 V	
Rated surge voltage (III/2)	2.5 kV	
minimum clearance value - non-homogenous field (III/2)	1.5 mm	
minimum creepage distance (III/2)	1.5 mm	
Rated insulation voltage (II/2)	320 V	
Rated surge voltage (II/2)	2.5 kV	
minimum clearance value - non-homogenous field (II/2)	1.5 mm	
minimum creepage distance (II/2)	1.6 mm	
ckaging specifications		
Type of packaging	packed in cardboard	
1 Jpo of paokaging	paonou iii ourubouru	



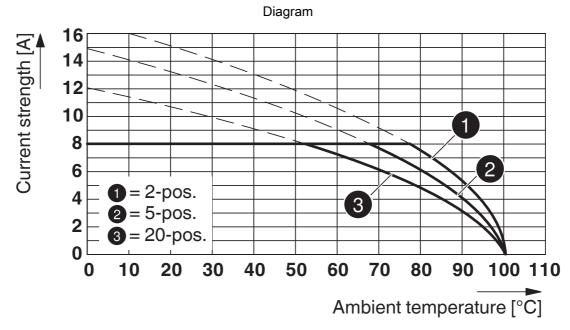
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Drawings



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

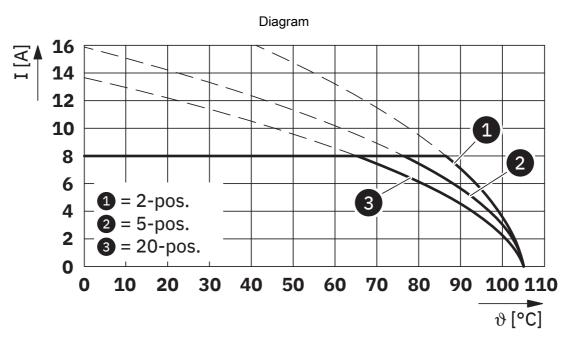


Type: DFMC 1,5/...-ST-3,5-LR with DMCV 1,5/...-G1F-3,5-LR P20THR

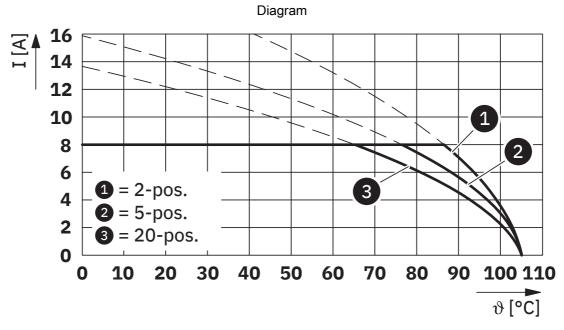


1715606

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Type: DFMC 1,5/...-ST-3,5-LR with DMC 1,5/...-G1-3,5-LR P...THR

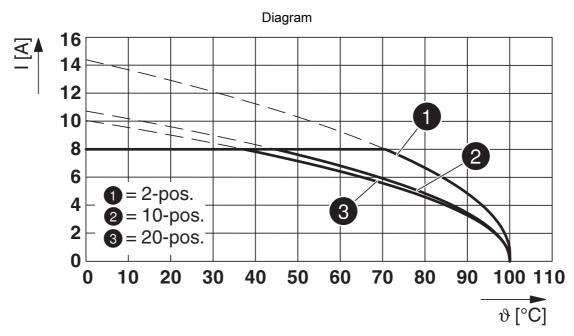


Type: DFMC 1,5/...-ST-3,5-LR with DMC 1,5/...-G1F-3,5-LR P35



1715606

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Type: DFMC 1,5/...-ST-3,5-LR with DMCV 1,5/...-G1F-3,5-LR P35



1715606

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1715606

CULus Recognized Approval ID: E60425-19920306						
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²		
Use group B						
Field wiring	300 V	8 A	24 - 16	-		
Use group C						
Factory wiring	50 V	8 A	24 - 16	-		
Use group D						
Field wiring	300 V	8 A	24 - 16	-		

₹	VDE report with production monitoring Approval ID: 40038423					
		Cross section AWG	Cross section mm ²			
		160 V	8 A	-	0.2 - 1.5	



1715606

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Classifications

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



1715606

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Environmental product compliance

EU RoHS

25 1.6.15			
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%		

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