

1703386

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Feed-through connector, nominal cross section: 16 mm², color: green, nominal current: 76 A, rated voltage (III/2): 1000 V, contact surface: Ag, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: DFK-PC 16/..-ST, pitch: 10.16 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON PC 16, Pin connector pattern alignment: Standard, locking: without, mounting method: without, 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
- · Flange system enables secure fixing to the housing panel by means of tool-free snap-in locking or screws

Commercial data

Item number	1703386
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AA05
Product key	AAEWDA
GTIN	4017918994303
Weight per piece (including packing)	36.75 g
Weight per piece (excluding packing)	31.835 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Product properties

Product type	Feed-through connector
Product family	DFK-PC 16/ST
Product line	COMBICON Connectors XL
Туре	Feed-through header
Number of positions	3
Pitch	10.16 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Mounting type	without

Electrical properties

Properties

Nominal current I _N	76 A
Nominal voltage U _N	1000 V
Contact resistance	$0.5~\text{m}\Omega$
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Туре	Feed-through header
Connector system	COMBICON PC 16
Nominal cross section	16 mm²
Contact connection type	Pin

Interlock

Locking type	without
Mounting type	without

Conductor connection

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross-section rigid	0.75 mm² 16 mm²
Conductor cross-section flexible	0.75 mm² 16 mm²
Conductor cross-section AWG	18 6



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Conductor cross-section flexible, with ferrule without plastic sleeve	0.5 mm² 16 mm² (Only in connection with CRIMPFOX 16 S)
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm ² 16 mm ² (Only in connection with CRIMPFOX 16 S)
2 conductors with same cross section, solid	0.75 mm² 6 mm²
2 conductors with same cross section, flexible	0.75 mm² 6 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm ² 4 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 6 mm ²
Cylindrical gauge a x b / diameter	4.3 mm x 4.0 mm / 5.4 mm
Stripping length	12 mm
Drive form screw head	Slotted (L)
Tightening torque	1.7 Nm 1.8 Nm

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	Electroplated silver
Metal surface terminal point (top layer)	Silver (4 - 8 µm Ag)
Metal surface contact area (top layer)	Silver (4 - 8 µm Ag)

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

Notes

Dimensions

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Dimensional drawing	h



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Pitch	10.16 mm
Width [w]	49.92 mm
Height [h]	30.55 mm
Length [I]	56.5 mm
echanical tests	
Test for conductor damage and slackening	
Specification	IEC 60999-1:1999-11
Result	Test passed
Pull-out test	
Specification	IEC 60999-1:1999-11
Conductor cross-section/conductor type/tractive force	0.75 mm² / solid / > 30 N
setpoint/actual value	0.75 mm² / flexible / > 30 N
	16 mm² / solid / > 100 N
	16 mm² / flexible / > 100 N
nsertion and withdrawal forces	
Result	Test passed
No. of cycles	50
Insertion strength per pos. approx.	7 N
Withdraw strength per pos. approx.	7 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
√isual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
Dimension check	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
ectrical tests	
Thermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	9
nsulation resistance	



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nsulation resistance, neighboring positions	> 5 MΩ
clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm
ronmental and real-life conditions	
oration tost	

E

Ambient temperature (operation)

Vibration 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
Durability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	9.8 kV
Contact resistance R ₁	0.5 mΩ
Contact resistance R ₂	0.5 mΩ
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	> 5 MΩ
Climatic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
	4.26 kV

-40 $^{\circ}\text{C}$... 100 $^{\circ}\text{C}$ (dependent on the derating curve)



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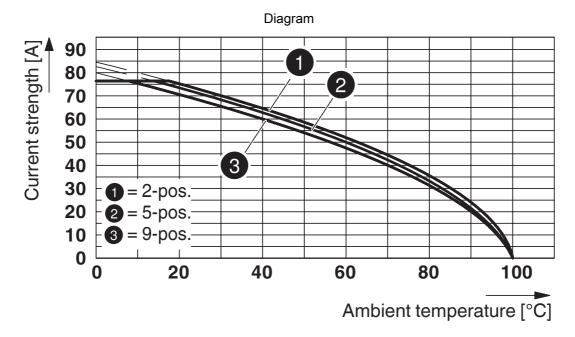
	Ambient temperature (storage/transport)	-40 °C 70 °C		
	Relative humidity (storage/transport)	30 % 70 %		
	Ambient temperature (assembly)	-5 °C 100 °C		
Packaging specifications				
	Type of packaging	packed in cardboard		



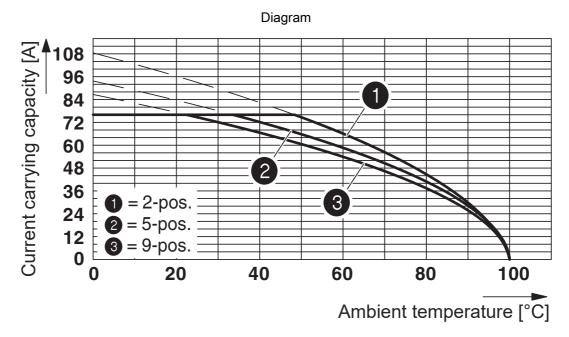
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Drawings



Type: SPC 16/...-ST(F)-10,16 with DFK-PC 16/...-ST(F)-10,16



Derating curve for: PC 16/...-ST-10.16 with DFK-PC 16/...-ST-10.16



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Approvals

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CULus Recognized Approval ID: E60425-20040202				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	600 V	55 A	20 - 6	-
С				
	600 V	55 A	20 - 6	-

	VDE approval of drawings Approval ID: 40055586				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		1000 V	76 A	-	0.75 - 16



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Classifications

ECLASS

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



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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	0.451 kg CO2e

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