

1703771

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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: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: DFK-IPC 16/..-STF, 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: Screw locking mechanism, mounting: 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
- · Flange system enables secure fixing to the housing panel by means of tool-free snap-in locking or screws
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Integrated double steel spring provides additional safety in the event of temperature and power fluctuations
- · Shroud for professional EMC shield connection on the front of the device
- · Screwable flange for superior mechanical stability

Commercial data

Item number	1703771
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AA05
Product key	AAEWBB
Catalog page	Page 585 (C-1-2013)
GTIN	4017918994617
Weight per piece (including packing)	37.25 g
Weight per piece (excluding packing)	33 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-IPC 16/STF
Product line	COMBICON Connectors XL
Туре	Feed-through header
Number of positions	2
Pitch	10.16 mm
Number of connections	2
Number of rows	1
Number of potentials	2
Mounting flange	Screw flange
Data management status	
Article revision	06

Electrical properties

Nominal current I _N	76 A
Nominal voltage U _N	1000 V
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	Socket

Interlock

Locking type	Screw locking mechanism
Mounting flange	Screw flange

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 mm ² 16 mm ² (Only in connection with CRIMPFOX 16 S)
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm² 16 mm² (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 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 6 mm²
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)	Tin (4 - 8 μm Sn)
Metal surface contact area (top layer)	Silver (2 - 4 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

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.

Dimensions

Dimensional drawing	h
Pitch	10.16 mm



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Width [w]	61.4 mm
Height [h]	32.05 mm
Length [I]	56.4 mm

Electrical tests

Air clearances and creepage distances |

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Specification	IEC 60664-1:2007-04	
Insulating material group	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	

Environmental and real-life conditions

Ambient 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

Packaging specifications

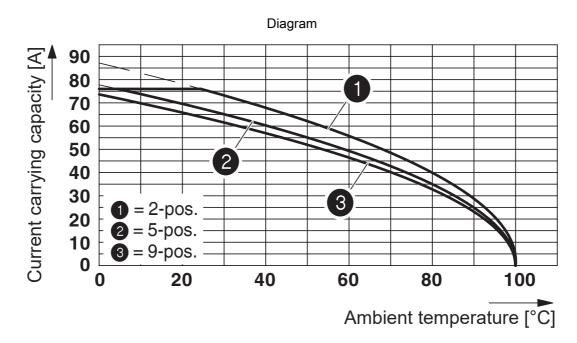
Type of packaging	packed in cardboard



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Drawings



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1703771

cULus Recognized Approval ID: E60425-20040202				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	55 A	20 - 6	-
Use group C				
	600 V	55 A	20 - 6	-

VDE Zeichengenehmigung Approval ID: 40055586				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	1000 V	76 A	-	0.75 - 16



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Classifications

ECLASS

	ECLASS-11.0	27460202		
	ECLASS-12.0	27460202		
	ECLASS-13.0	27460202		
ETIM				
	ETIM 9.0	EC002638		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

EU RoHS

20.10.10			
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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