

1783458

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PCB connector, nominal cross section: 6 mm², color: green, nominal current: 32 A, rated voltage (III/2): 1000 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: PC 5/..-STF1, pitch: 7.62 mm, connection method: Screw connection with tension sleeve, screw head form: H1L Slotted Phillips recess, conductor/PCB connection direction: 0 °, locking clip: - without locking clip, plug-in system: COMBICON PC 5, 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
- 600 V UL approval in the smallest of dimensions
- · Shield for adherence to the EMC requirements and an optional strain relief
- · Flange with knurled screw that does not require tools, for superior mechanical stability

Commercial data

Item number	1783458
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AADABB
GTIN	4046356563499
Weight per piece (including packing)	23.672 g
Weight per piece (excluding packing)	18.781 g
Country of origin	DE



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Technical data

Product properties

Product type	PCB connector
Product family	PC 5/STF1
Product line	COMBICON Connectors Special
Number of positions	3
Pitch	7.62 mm
Number of connections	3
Number of rows	1
Number of potentials	3

Electrical properties

Properties

Nominal current I _N	32 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

Connector system	COMBICON PC 5
Nominal cross section	6 mm²
Contact connection type	Socket

Interlock

Locking type	Screw locking mechanism
Mounting type	Screw flange
Tightening torque	0.3 Nm 0.7 Nm

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross-section rigid	0.2 mm² 10 mm²
Conductor cross-section flexible	0.2 mm² 6 mm²
Conductor cross-section AWG	24 10
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 6 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with same cross section, solid	0.2 mm ² 2.5 mm ²



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2 conductors with same cross section, flexible	0.2 mm² 4 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.25 mm² 2.5 mm²
Cylindrical gauge a x b / diameter	3.6 mm x 3.1 mm / 3.4 mm
Stripping length	10 mm
Drive form screw head	Slotted Phillips recess (H1L)
Tightening torque	0.5 Nm 0.8 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	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

Dimensional drawing	h
Pitch	7.62 mm
Width [w]	38.09 mm
Height [h]	19.7 mm
Length [I]	35.3 mm

Mounting

Flange



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Tightening torque	0.3 Nm 0.7 Nm
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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.
nvironmental and real-life conditions	
nvironmental and real-life conditions Ambient conditions	
	-40 °C 100 °C (dependent on the derating curve)
Ambient conditions	-40 °C 100 °C (dependent on the derating curve) -40 °C 70 °C
Ambient conditions Ambient temperature (operation)	

Electrical tests

Air clearances and creepage distances |

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

Packaging specifications

Type of packaging	packed in cardboard	



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Approvals

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CULus Recognized Approval ID: E60425-19920722					
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
В					
Multi-conductor connection	600 V	41 A	24 - 12	-	
Screw connection	600 V	41 A	24 - 8	-	
С					
Multi-conductor connection	600 V	41 A	24 - 12	-	
Screw connection	600 V	41 A	24 - 8	-	



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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

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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