

1784884

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PCB connector, nominal cross section: 35 mm², color: green, nominal current: 125 A, rated voltage (III/2): 1000 V, contact surface: Ag, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: IPC 35 HC/. .-STGF, pitch: 15 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0°, locking clip: - without locking clip, plugin system: COMBICON PC 35, locking: Screw locking mechanism, mounting method: Threaded 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
- · Inverted connector with pin contacts for touch-proof device outputs or free-hanging cable/cable connections
- · Screwable flange for superior mechanical stability

Commercial data

Item number	1784884
Packing unit	10 pc
Minimum order quantity	25 pc
Sales key	AA05
Product key	AAEADC
GTIN	4046356561198
Weight per piece (including packing)	167.74 g
Weight per piece (excluding packing)	161 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Product properties

Product type	PCB connector
Product family	IPC 35 HC/STGF
Product line	COMBICON Connectors XL
Туре	Standard
Number of positions	5
Pitch	15 mm
Number of connections	5
Number of rows	1
Number of potentials	5
Mounting flange	Threaded flange

Electrical properties

Properties

Connection data

Connection technology

Туре	Standard
Connector system	COMBICON PC 35
Nominal cross section	35 mm²
Contact connection type	Pin

Interlock

Locking type	Screw locking mechanism
Mounting flange	Threaded flange
Tightening torque	0.8 Nm

Conductor connection

Connection method	Screw connection with tension sleeve
Conductor/PCB connection direction	0 °
Conductor cross section rigid	0.5 mm² 35 mm²
Conductor cross section flexible	0.5 mm² 35 mm²



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Conductor cross section AWG	20 2
Conductor cross section flexible, with ferrule without plastic sleeve	1 mm² 35 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	1.5 mm² 35 mm²
2 conductors with same cross section, solid	0.5 mm² 6 mm²
2 conductors with same cross section, flexible	0.5 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
Cylindrical gauge a x b / diameter	- / 8.0 mm
Stripping length	20 mm
Drive form screw head	Slotted (L)
Tightening torque	2.5 Nm 4.5 Nm (≤ 25 mm² = 2.5 Nm; > 25 mm² = 4.5 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

Dimensions

Dimensional drawing	h
Pitch	15 mm
Width [w]	99.4 mm
Height [h]	41.7 mm



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Length [I]	57 mm
punting	
Flange	
Tightening torque	0.8 Nm
Attachment to feed-through panel	
Tightening torque	1 Nm
Screw	1700368 DFK-PC 35 SS
Attachment on the PCB	
Tightening torque	1 Nm
Screw	1700368 DFK-PC 35 SS
otes	
General	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	
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	0.5 mm² / solid / > 20 N
setpoint/actual value	0.5 mm² / flexible / > 20 N
	35 mm² / stranded / > 190 N
	35 mm² / flexible / > 190 N
Insertion and withdrawal forces	
Specification	IEC 60512-13-2:2006-02
Result	Test passed
No. of cycles	50
Insertion strength per pos. approx.	14 N
Withdraw strength per pos. approx.	9 N
Torque test	
Specification	IEC 60999-1:1999-11
Resistance of inscriptions	
Specification	IEC 60068-2-70:1995-12
Result	Test passed
roodic	
Polarization and coding	



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Result	Test passed
sual inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed
mension check	·F-2 22-12 1 2 22-22
Specification	IEC 60512-1-2:2002-02
Result	Test passed
ironmental and real-life conditions	
bration 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
rability test	
Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	9.8 kV
Contact resistance R ₁	0.17 mΩ
Contact resistance R ₂	0.15 mΩ
Insertion/withdrawal cycles	50
Insulation resistance, neighboring positions	> 5 MΩ
imatic 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
Power-frequency withstand voltage	4.26 kV
nocks	IFO 00000 0 07 0000 00
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
mbient 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



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Electrical tests

Specification	IEC 60512-5-1:2002-02
Tested number of positions	6

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

Air clearances and creepage distances |

All 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

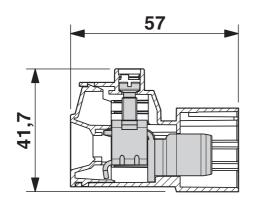


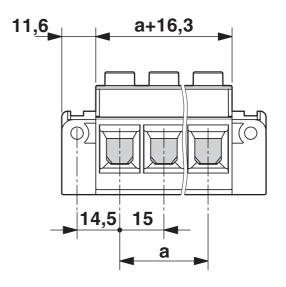
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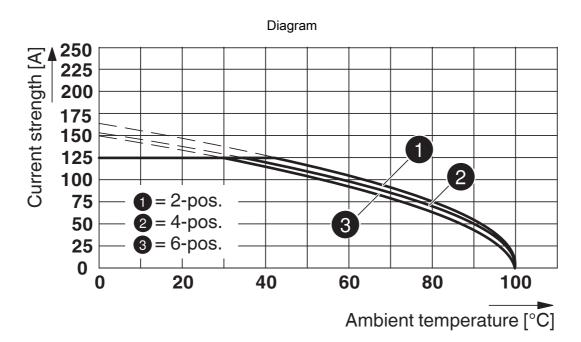
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Drawings

Dimensional drawing







PC 35 HC/..-STF-15,0 with IPC 35 HC/..-STGF-15,0

Derating curve, representation based on DIN EN 60512-5-2:2003-01 Connected conductor cross section = $35~\mathrm{mm}^2$

Reduction factor = 0.8

Number of positions: see diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1784884

UL Recognized Approval ID: E60425-20101007				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	600 V	115 A	16 - 2	-
С				
	600 V	115 A	16 - 2	-

△YDE	VDE report with production monitoring Approval ID: 40039053				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		1000 V	125 A	-	0.5 - 35



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27460202		
	ECLASS-15.0	27460202		
ETIM				
	ETIM 9.0	EC002638		
UN	NSPSC			

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%		

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