Printed-circuit board connector - PCV 35 HC/ 2-GF-15,00 - 1762796

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The figure shows a 5-pos. version of the product

PCB headers, nominal current: 125 A, rated voltage (III/2): 1000 V, nominal cross section: 35 mm², number of positions: 2, pitch: 15 mm, color: green, contact surface: Silver, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 4.6 mm

Your advantages

- Well-known mounting principle allows worldwide use
- Double flange for space-optimized screw connection on the housing panel and with the connector

Key Commercial Data

Packing unit	25 pc
GTIN	4 046356 444057
GTIN	4046356444057

Technical data

Item properties

Brief article description	Feed-through header
Plug-in system	POWER COMBICON 35
Type of contact	Male connector
Range of articles	PCV 35 HC/..-GF
Pitch	15 mm
Number of positions	2
Mounting type	Wave soldering
Pin layout	Linear pinning
Locking	Threaded flange
Number of levels	1
Number of connections	2
Number of potentials	2

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Electrical parameters

Nominal current	125 A
Nom. voltage	1000 V
Rated voltage	1000 V
Rated voltage (III/2)	1000 V
Rated voltage (II/2)	1000 V
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	6 kV

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 contact area (top layer)	Silver (4 - 8 µm Ag)
Metal surface soldering area (top layer)	Silver (4 - 8 µm Ag)

Material data - housing

Housing color	green (6021)
Insulating material	PBT
Insulating material group	IIIa
CTI according to IEC 60112	225
Flammability rating according to UL 94	V0

Dimensions for the product

Length [l]	28.5 mm
Width [w]	54.4 mm
Height [h]	42.6 mm
Pitch	15 mm
Height (without solder pin)	38 mm
Solder pin [P]	4.6 mm
Pin spacing	11.00 mm
Pin dimensions	2.4 x 2.5 mm

Dimensions for PCB design

Hole diameter	3.6 mm
Pin spacing	11.00 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	25
Denomination packing units	Pcs.

Ambient conditions

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Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)

Air clearances and creepage distances

Clearances and creepage distances	IEC 60664-1:2007-04
Specification	IEC 60664-1:2007-04
Minimum clearance - inhomogeneous field (III/3)	8 mm
Minimum clearance - inhomogeneous field (III/2)	8 mm
Minimum clearance - inhomogeneous field (II/2)	5.5 mm
Minimum creepage distance value (III/3)	16 mm
Minimum creepage distance value (III/2)	10 mm
Minimum creepage distance value (II/2)	10 mm

Current carrying capacity / derating curves

Caption	Type: PC 35 HC/...-STF-15,00 with PCV 35 HC/...-GF-15,00
Specification	IEC 61984:2008-10
Reduction factor	0.8
Note	Representation based on IEC 60512-5-2:2002-02
	For number of positions, see diagram

Mechanical tests (A)

Test specification	IEC 61984
Insertion strength per pos. approx.	15 N
Withdraw strength per pos. approx.	11 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

Durability tests (B)

Specification	IEC 60512-5:1992-08
Contact resistance R_1	0.12 mΩ
Insertion/withdrawal cycles	50
Contact resistance R_2	0.15 mΩ
Impulse withstand voltage at sea level	9.8 kV
Power-frequency withstand voltage	4.26 kV
Insulation resistance, neighboring positions	10^{12} Ω

Thermal tests (C)

Specification	IEC 60512-5-1:2002-02
Number of positions	6
Conductor cross section	35 mm²
Test current	125 A
Upper limiting temperature requirements <100 °C	Test passed

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Climatic tests (D)

Specification	ISO 6988:1985-02
Cold stress	-40 °C/2 h
Thermal stress	100 °C/168 h
Corrosive stress	0.2 dm^3 SO_2 on 300 dm^3/40 °C/1 cycle
Impulse withstand voltage at sea level	9.8 kV
Power-frequency withstand voltage	4.26 kV

Environmental and durability tests (E)

Result, degree of protection, IP code	Finger safety with IP20 test finger

Standards and Regulations

Connection in acc. with standard	EN-VDE
	CUL
Flammability rating according to UL 94	V0

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

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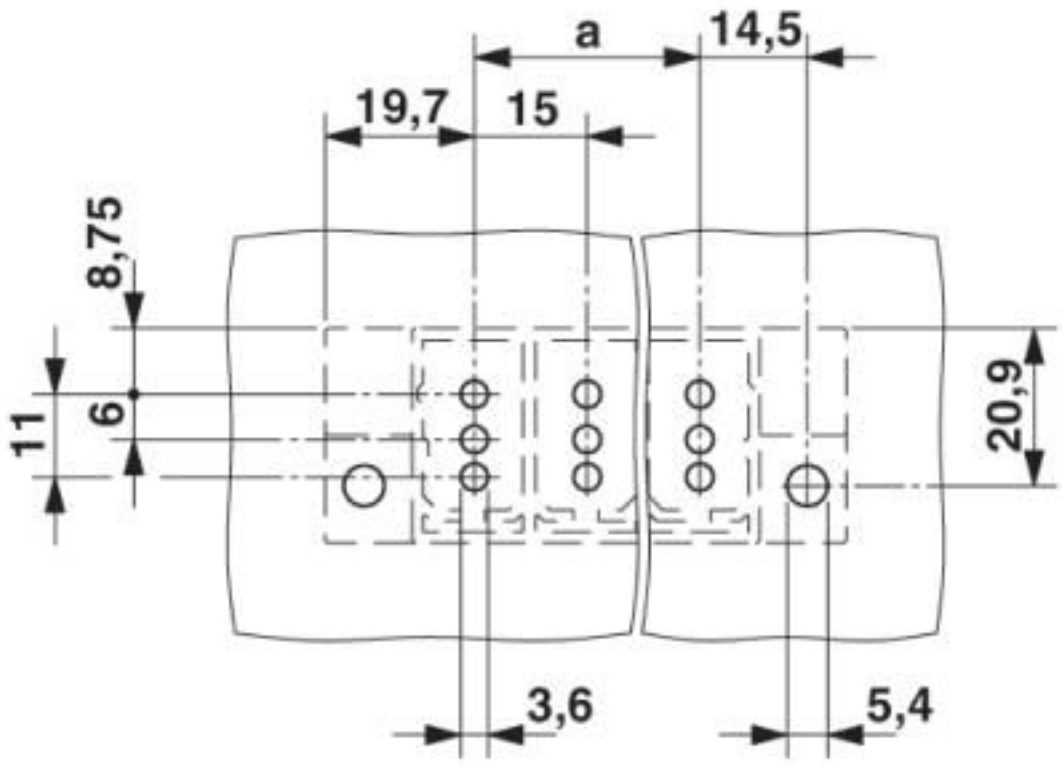
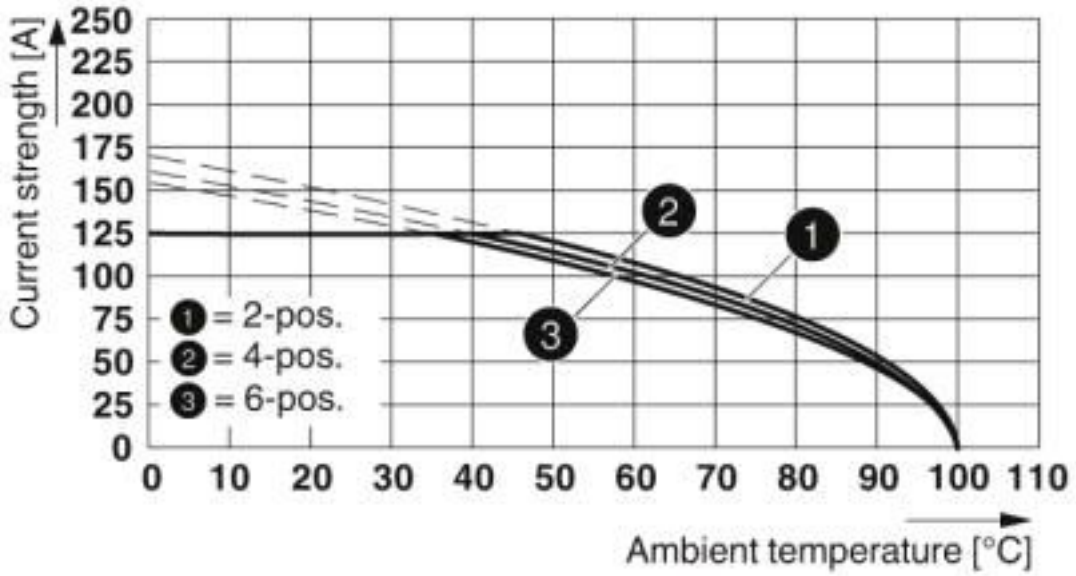
Drilling diagram



Diagram



Type: PC 35 HC/...-STF-15,00 with PCV 35 HC/...-GF-15,00

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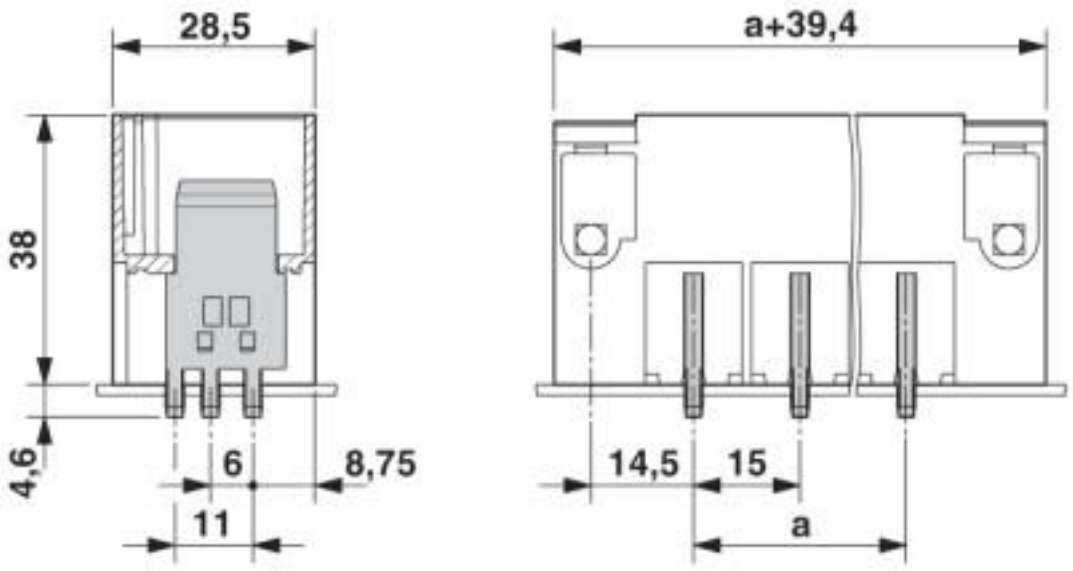
Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27440402
eCl@ss 4.0	27260700
eCl@ss 4.1	27260700
eCl@ss 5.0	27260700
eCl@ss 5.1	27260700
eCl@ss 6.0	27260700
eCl@ss 7.0	27440402
eCl@ss 8.0	27440402
eCl@ss 9.0	27440402

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002637
ETIM 5.0	EC002637
ETIM 6.0	EC002637
ETIM 7.0	EC002637

UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409
UNSPSC 18.0	39121409

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Classifications

UNSPSC

UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

Approvals

Approvals

Approvals

CCA / IECEE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / cULus Recognized

Ex Approvals

Approval details

CCA	CCA/ DE1 34354

IECEE CB Scheme	CB scheme	http://www.iecee.org/	CB DE1-63848

Nominal voltage UN	1000 V
Nominal current IN	125 A

VDE Gutachten mit Fertigungsüberwachung	VDE	http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40039053

Nominal voltage UN	1000 V
Nominal current IN	125 A

EAC	EAC	B.01687

cULus Recognized	c UL us	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20101007

	B	C
Nominal voltage UN	600 V	600 V

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Approvals

	B	C
Nominal current IN	115 A	115 A

Accessories

Accessories

Coding element

Coding profile - CP-HC - 1686478

Coding profile, 4 coding profiles per strip, for insertion in coding keyways

Mounting material

Screw - DFK-PC 35-SS - 1700368

Flange screw for PC 35... connectors

Terminal marking

Marker strip - SK 10,0 WH:REEL - 0812188

Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 90000 mm, lettering field size: continuous x 10#mm, Number of individual labels: 54000

Additional products

Printed-circuit board connector - PC 35 HC/ 2-STF-15,00 - 1762592

PCB connector, nominal current: 125 A, rated voltage (III/2): 1000 V, nominal cross section: 35 mm², number of positions: 2, pitch: 15 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Silver

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