Printed-circuit board connector - PC 6/ 2-ST-BUS-7,62 - 1044740

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The figure shows a version of the product

PCB connector, nominal current: 32 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm², number of positions: 2, pitch: 7.62 mm, connection method: Displacement connection, color: green, contact surface: Tin

Your advantages

- Easy looping through of high power ratings using standard 16 mm² conductors (H07V-K)
- Connection without conductor pretreatment for huge time savings
- Drive screw position easily recognizable, thanks to indicator
- Application-specific insulation thanks to individually removable insulating caps

Key Commercial Data

Packing unit	20 pc
Minimum order quantity	20 pc
GTIN	4 055626 622842
GTIN	4055626622842

Technical data

Item properties

Brief article description	Printed-circuit board connector
Plug-in system	POWER COMBICON 6
Type of contact	Female connector
Range of articles	PC 6/..-ST-BUS
Pitch	7.62 mm
Number of positions	2
Connection method	Displacement connection
Drive form screw head	Torx® (T15)
Screw thread	M4
Locking	without

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Technical data

Item properties

Number of levels	1
Number of connections	2
Number of potentials	2

Electrical parameters

Nominal current	32 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

Connection capacity

Connection method	Displacement connection
pluggable	Yes
Conductor cross section flexible	16 mm² (H07V-K / Maximum outer diameter 8.1 mm)
Torque	3 Nm

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

Housing color	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 for the product

Length [l]	28.75 mm
Width [w]	24.4 mm
Height [h]	58 mm
Pitch	7.62 mm
Height (without solder pin)	58 mm

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Packaging information

Type of packaging	packed in cardboard
Pieces per package	20
Denomination packing units	Pcs.

Ambient conditions

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

Termination and connection method

Conductor connection test	The stripped-off ends of the largest conductor can be completely inserted in the opening of the terminal point without using excessive force.
Test result	Test passed
Test – repeated connection and release	IEC 60998-2-3:2002-12
	Test passed
Test for conductor damage and slackening	IEC 60998-2-3:2002-12
	Test passed

Pull-out test

Pull-out test	IEC 60998-2-3:2002-12
	Test passed
Conductor cross section / conductor type / tensile force	16 mm² / flexible / > 100 N

Mechanical tests according to standard

Test specification	IEC 61984
Visual inspection	IEC 60512-1-1:2002-02
Dimension check	IEC 60512-1-2:2002-02
Resistance of inscriptions	IEC 60068-2-70:1995-12
Insertion and withdrawal force	IEC 60512-13-2:2006-02
No. of cycles	25
Insertion strength per pos. approx.	13 N
Withdraw strength per pos. approx.	16 N
Polarization and coding	IEC 60512-13-5:2006-02
Contact holder in insert	IEC 60512-15-1:2008-05
Test force per pos.	20 N

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)	12.5 mm

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Air clearances and creepage distances

Minimum creepage distance value (III/2)	5 mm
Minimum creepage distance value (II/2)	5 mm

Temperature cycles

Specification	IEC 60998-2-3:2002-12
Test current (minimum cross section)	32 A DC
Temperature cycles	384

Current carrying capacity / derating curves

Caption	Type: PC 6/...-ST-BUS-7,62 with PC 6/...-G1-7,62 BK
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.	13 N
Withdraw strength per pos. approx.	16 N
Polarization when inserted requirement >20 N	Test passed
Contact holder in insert requirements >20 N	Test passed

Durability tests (B)

Specification	IEC 60512-9-1:2010-03
Contact resistance R_1	0.7 mΩ
Insertion/withdrawal cycles	25
Contact resistance R_2	0.7 mΩ
Impulse withstand voltage at sea level	9.8 kV
Power-frequency withstand voltage	4.26 kV

Thermal tests (C)

Specification	IEC 60512-5-1:2002-02
Number of positions	3
Conductor cross section	16 mm²
Test current	32 A
Upper limiting temperature requirements <100 °C	Test passed

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

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Environmental and durability tests (E)

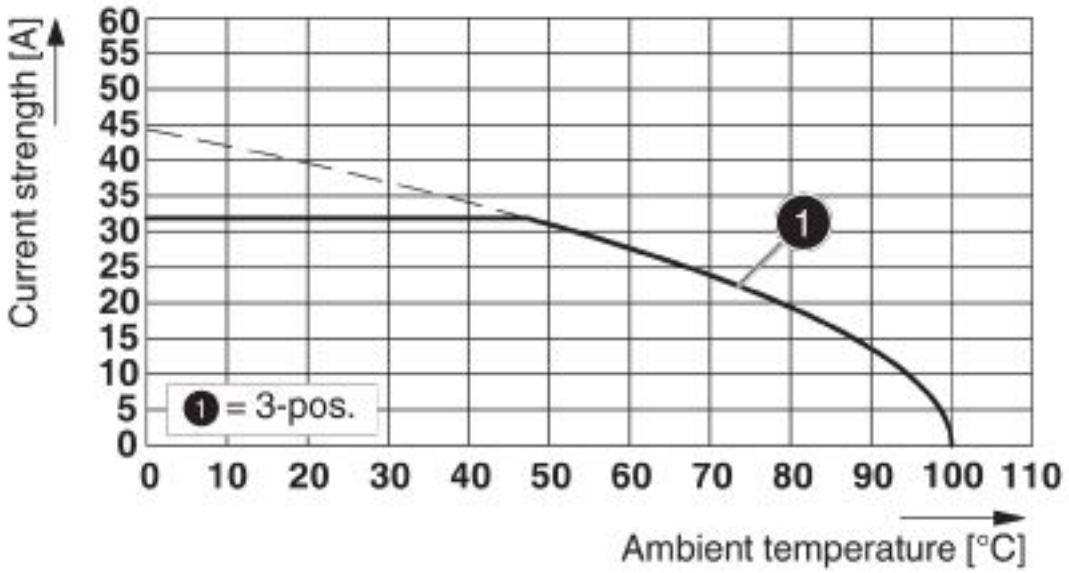
Specification	IEC 61984:2008-10
Result, degree of protection, IP code	Finger safety with IP20 test finger

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Drawings

Diagram



Type: PC 6/...-ST-BUS-7,62 with PC 6/...-G1-7,62 BK

Classifications

eCl@ss

eCl@ss 10.0.1	27440309
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

ETIM

ETIM 5.0	EC002638
ETIM 6.0	EC002638
ETIM 7.0	EC002638

Approvals

Approvals

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Approvals

Approvals

cULus Recognized / EAC

Ex Approvals

Approval details

cULus Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E60425-20010727

	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	30 A	30 A
mm²/AWG/kcmil	6	6

EAC B.01687

Accessories

Accessories

Coding element

Coding profile - CP-PC RD - 1701967

Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red

Insulator cap

Insulating part - EC-PC 6/ 2-ST-BUS - 1044822

Insulating part, number of positions: 2, pitch: 0 mm, color: green

Screwdriver tools

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Accessories

Screw insert - SF-BIT-TX 15-50 - 1212576

Screw bit, Torx®, E6.3-1/4" drive, size: TX 15 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

Tool set

Tool set - SF-LTX SET - 1200162

Offset screwdriver set, Torx, metric, TX 8, 9, 10, 15, 20, 25; 27, 30, 40 mm, 9-piece, BlackLaser surface, in practical holder

Tool set - SF-M SET - 1212543

Bit screwdriver set with quick-action chuck, 89 mm long slotted/crosshead (PZ and PH)/hex/Torx® bits, 17-part, in folding belt pouch, contents: PH 1,2,3 x 89; PZ 1,2,3 x 89; SL 1.5 x 5.5 x 89; TX 10-30 x 89; SW 3,4,5,6 x 89

Additional products

Printed-circuit board connector - PC 6/ 2-G-7,62 - 1054546

PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 2, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm

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