

Printed-circuit board connector - PC 6/ 3-ST-BUS-7,62 - 1044738

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

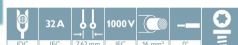


PCB connector, nominal current: 32 A, rated voltage (III/2): 1000 V, nominal cross section: 16 mm², number of positions: 3, pitch: 7.62 mm, connection method: Displacement connection, color: green, contact surface: Tin


The figure shows a version of the product

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 0 5 5 6 2 6 6 3 4 2 1 0
GTIN	4055626634210

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	3
Connection method	Displacement connection
Drive form screw head	Torx® (T15)
Locking	without
Number of levels	1

Printed-circuit board connector - PC 6/ 3-ST-BUS-7,62 - 1044738

Technical data

Item properties

Number of connections	3
Number of potentials	3

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 mm ² (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]	34.2 mm
Height [h]	58 mm
Pitch	7.62 mm
Height (without solder pin)	58 mm

Printed-circuit board connector - PC 6/ 3-ST-BUS-7,62 - 1044738

Technical data

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 mm ² / 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

Printed-circuit board connector - PC 6/ 3-ST-BUS-7,62 - 1044738

Technical data

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 mm ²
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

Printed-circuit board connector - PC 6/ 3-ST-BUS-7,62 - 1044738

Technical data

Environmental and durability tests (E)

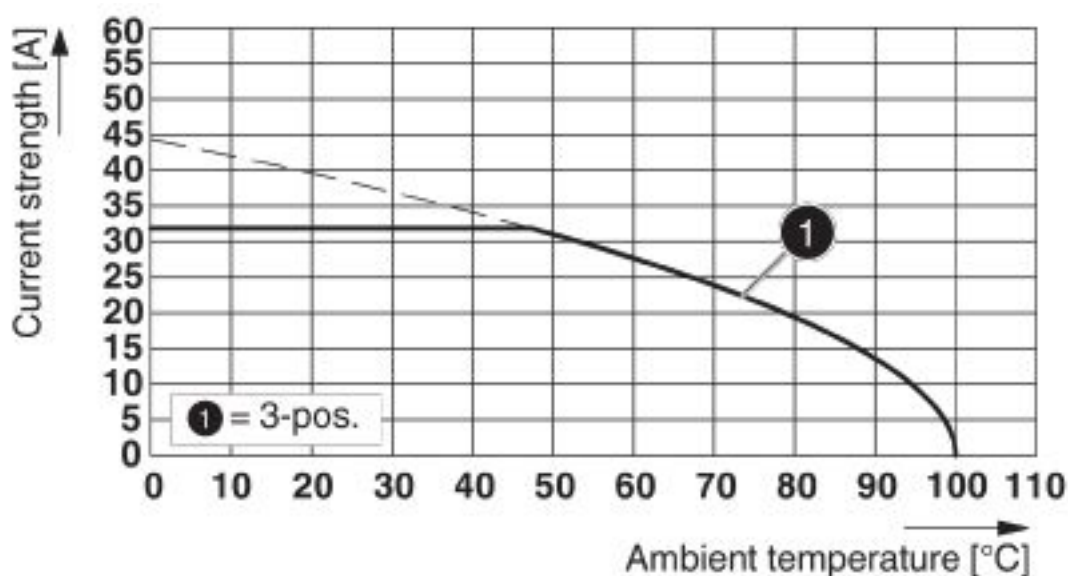
Specification	IEC 61984:2008-10
Result, degree of protection, IP code	Finger safety with IP20 test finger

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

Printed-circuit board connector - PC 6/ 3-ST-BUS-7,62 - 1044738

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/ 3-ST-BUS - 1044820

Insulating part, number of positions: 3, pitch: 0 mm, color: green



Screwdriver tools

Printed-circuit board connector - PC 6/ 3-ST-BUS-7,62 - 1044738

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/ 3-G-7,62 - 1054547



PCB headers, nominal current: 41 A, rated voltage (III/2): 630 V, nominal cross section: 6 mm², number of positions: 3, pitch: 7.62 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1044738](#)