

Printed-circuit board connector - ICC 2,5/20-STZ-5,08 - 1824023

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The figure shows an 10-position version

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Crimp connection, color: green, Corresponding male crimp contacts with current [A] and conductor cross section range [mm²] data: 10A/ICC-MT 0,5-1,0 (3190577); 10A/ICC-MT 0,5-1,0 BA (3190603); 12A/ICC-MT 1,5-2,5 (3190580); 12A/ICC-MT 1,5-2,5 BA (3190593). BA = Bandkontakte

Your advantages

- Inexpensive connection of large quantities of pre-assembled conductors
- Pull-out aid facilitates handling and allows the tensile force to be reduced at the contact point
- Can be combined with the MSTB 2,5 range
- Intuitive locking mechanism prevents accidental disconnection



Key Commercial Data

Packing unit	50 pc
GTIN	
GTIN	4017918048877

Technical data

Item properties

Brief article description	Printed-circuit board connector
Plug-in system	CLASSIC COMBICON
Type of contact	Male connector
Range of articles	ICC 2,5/..-STZ
Pitch	5.08 mm
Number of positions	20
Connection method	Crimp connection
Locking	without
Number of levels	1
Number of connections	20
Number of potentials	20

Printed-circuit board connector - ICC 2,5/20-STZ-5,08 - 1824023

Technical data

Electrical parameters

Nominal current	12 A
Nom. voltage	320 V
Rated voltage	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV

Connection capacity

Connection method	Crimp connection
pluggable	Yes
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross section AWG / kcmil	20 ... 14

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201
Contact material	Cu alloy
Metal surface terminal point (top layer)	Tin (Sn)
Metal surface contact area (top layer)	Tin (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]	28.1 mm
Width [w]	107.39 mm
Height [h]	10.6 mm
Pitch	5.08 mm
Height (without solder pin)	10.6 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

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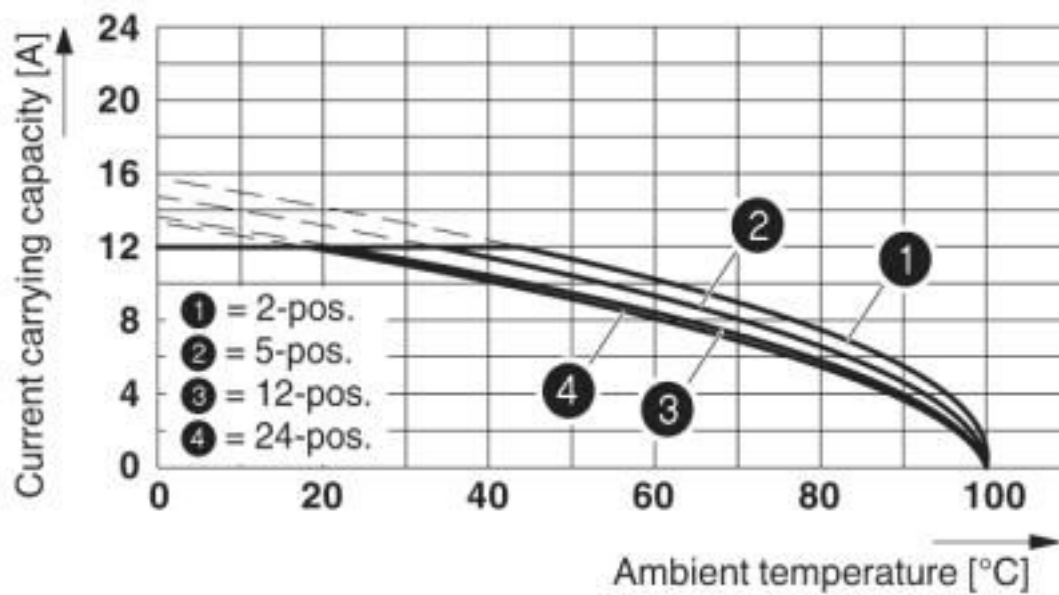
Technical data

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

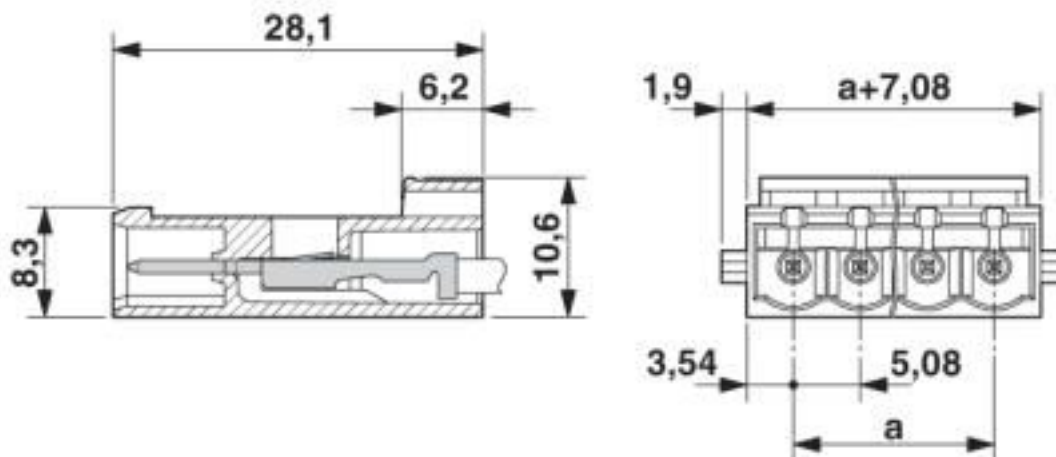
Drawings

Diagram



Type: ICC 2,5/...-ST-5,08 with IC 2,5/...-G-5,08; contact: ICC-MT 1,5 - 2,5

Dimensional drawing



Printed-circuit board connector - ICC 2,5/20-STZ-5,08 - 1824023

Classifications

eCl@ss

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

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638
ETIM 7.0	EC002638

UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409
UNSPSC 18.0	39121409
UNSPSC 19.0	39121409
UNSPSC 20.0	39121409
UNSPSC 21.0	39121409

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / IECCE CB Scheme / EAC / VDE Zeichengenehmigung / cULus Recognized

Ex Approvals

Approval details

Printed-circuit board connector - ICC 2,5/20-STZ-5,08 - 1824023

Approvals

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	B	D	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	10 A	
mm ² /AWG/kcmil	20-14	20-14	

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
	B	D	
Nominal voltage UN	250 V	300 V	
Nominal current IN	10 A	10 A	
mm ² /AWG/kcmil	20-14	20-14	

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
	B	D	
Nominal voltage UN	250 V	300 V	
Nominal current IN	10 A	10 A	
mm ² /AWG/kcmil	20-14	20-14	

IECEE CB Scheme		http://www.iecee.org/	DE1-60988-B1B2
Nominal voltage UN	250 V		
Nominal current IN	10 A		
mm ² /AWG/kcmil	0.5-1		

EAC		B.01687
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VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40050648
Nominal voltage UN	250 V		

Printed-circuit board connector - ICC 2,5/20-STZ-5,08 - 1824023

Approvals

Nominal current IN	10 A
mm ² /AWG/kcmil	0.5-1

cULus Recognized

Accessories

Accessories

Crimp contact

Accessories - ICC-MT 0,5-1,0 - 3190577



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 0.5-1.0 mm²

Male insert - ICC-MT 0,5-1,0 BA - 3190603



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 0.5-1.0 mm², ribbon contact

Accessories - ICC-MT 1,5-2,5 - 3190580



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 1.5-2.5 mm²

Accessories - ICC-MT 1,5-2,5 BA - 3190593



Module male contact, is inserted into the ICC connector shell after the conductor has been crimped, for conductors from 1.5-2.5 mm², ribbon contact

Crimping tool

Printed-circuit board connector - ICC 2,5/20-STZ-5,08 - 1824023

Accessories

Crimping pliers - CRIMPFOX MT 2,5 - 1204038



Crimping pliers, for crimping conductors to the module female contacts STG-MTN, crimp range: 0.5-2.5 mm², AWG: 20-14

Labeled terminal marker

Marker card - SK 5,08/2,8:FORTL.ZAHLEN - 0804280



Marker card, Card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5.08 mm, lettering field size: 5.08 x 2.8 mm

Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

Strain relief

Strain relief - STZ 2-MSTBC-5,08 - 1810529



Strain relief for snapping into the latching chambers of the plug components, 2-pos., labeling with ZB 6

Strain relief - STZ 4-MSTBC-5,08 - 1810532



Strain relief for snapping into the latching chambers of the plug components, 4-pos., labeling with ZB 6

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Accessories

Strain relief - STZ 8-MSTBC-5,08 - 1810516



Strain relief for snapping into the latching chambers of the plug components, 8-pos., labeling with ZB 6

Strain relief - STZ 12-MSTBC-5,08 - 1810503



Strain relief for snapping into the latching chambers of the plug components, 12-pos., labeling with ZB 6

Additional products

Printed-circuit board connector - MVSTBR 2,5/20-ST-5,08 - 1792427



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

Printed-circuit board connector - FKCT 2,5/20-ST-5,08 - 1902291



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Push-in spring connection, color: green, contact surface: Tin

Feed-through terminal block - ZFKK 1,5-ICV-5,08 - 1873029



Feed-through terminal block, connection method: Special and hybrid connection, cross section: 0.2 mm² - 2.5 mm², AWG: 24 - 16, width: 5.1 mm, color: gray, mounting: NS 35/15, NS 35/7,5

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Accessories

Printed-circuit board connector - SMSTB 2,5/20-ST-5,08 - 1850592

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin



Printed-circuit board connector - MSTBU 2,5/20-STD-5,08 - 1824308

Direct plug-in block, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin, mounting: Direct mounting



Feed-through header - IC 2,5/20-G-5,08 - 1786585

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm



Feed-through header - ICV 2,5/20-G-5,08 - 1786129

PCB headers, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, color: green, contact surface: Tin, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm



Printed-circuit board connector - FRONT-MSTB 2,5/20-ST-5,08 - 1777468

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Front screw connection, color: green, contact surface: Tin



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Accessories

Printed-circuit board connector - MSTBP 2,5/20-ST-5,08 - 1769191



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

Printed-circuit board connector - MSTB 2,5/20-ST-5,08 - 1757190



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

Printed-circuit board connector - MSTBC 2,5/20-ST-5,08 - 1808997



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Crimp connection, color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

Printed-circuit board connector - MSTBC 2,5/20-STZ-5,08 - 1809682



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Crimp connection, color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

Printed-circuit board connector - MSTBC 2,5/20-STZ-5,08-R - 1809226



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Crimp connection, color: green, Corresponding female crimp contacts with current [A] and conductor cross section range [mm²] data: 10A/MSTBC-MT 0,5-1,0 (3190564); 10A/MSTBC-MT 0,5-1,0 BA (3190645); 12A/MSTBC-MT 1,5-2,5 (3190551); 12A/MSTBC-MT 1,5-2,5 BA (3190658). BA = Bandkontakte

Printed-circuit board connector - ICC 2,5/20-STZ-5,08 - 1824023

Accessories

Printed-circuit board connector - MVSTBW 2,5/20-ST-5,08 - 1792935



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 20, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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