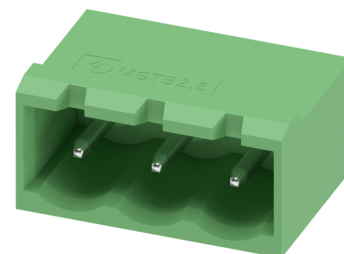


Item No.: 1757255

Type: MSTBA 2,5/ 3-G-5,08

PCB headers



1 Main features



- | | | | |
|-------------------------|---------------------|------------------------|---------------------|
| • No. of pos. | 3 | • Nominal current | 12 A |
| • Nominal cross section | 2.5 mm ² | • Nominal voltage | 320 V |
| • Color | green (RAL 6021) | • Connection direction | 0 ° |
| • Pitch | 5.08 mm | • Type of packaging | packed in cardboard |
| • Mounting type | Wave soldering | | |

2 Your advantages

- ✓ Maximum flexibility when it comes to device design – one header for connectors with different connection technologies
- ✓ Well-known mounting principle allows worldwide use
- ✓ Plug-in direction parallel to the PCB
- ✓ Closed contour for optimum stability of the plug-in connection
- ✓ Easy PCB replacement thanks to plug-in modules

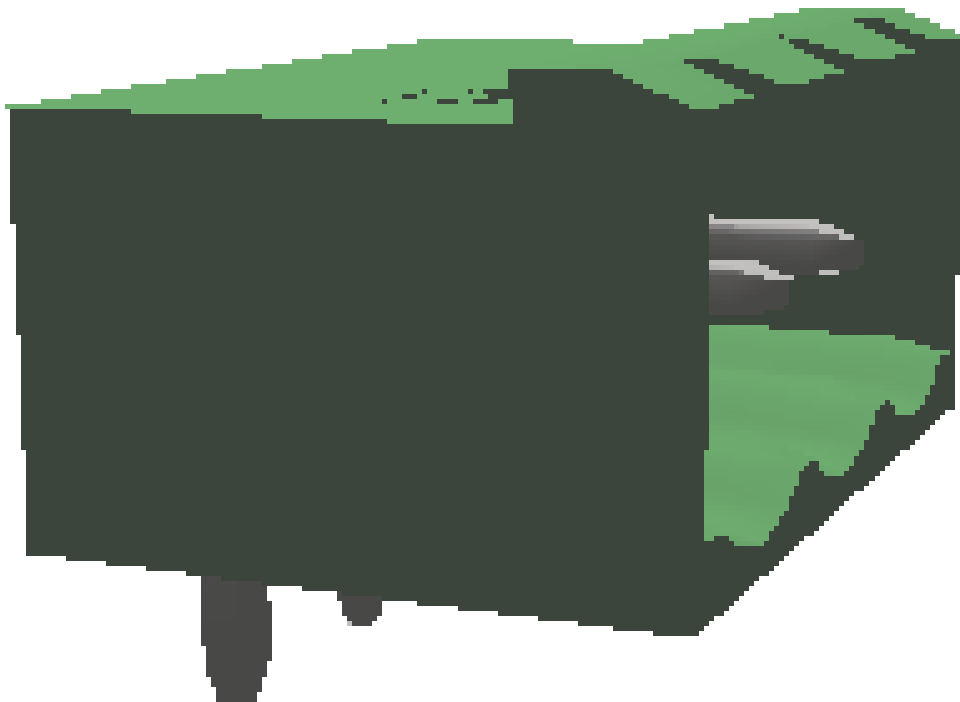


Make sure you always use the latest documentation.
It can be downloaded at: phoenixcontact.com/product/1757255

1757255 MSTBA 2,5/ 3-G-5,08**3 Table of contents**

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4 3D model in PDF can be activated (Acrobat Reader only)



1757255 MSTBA 2,5/ 3-G-5,08**5 General Technical Data****5.1 item properties**

Item no.	1757255
Type	MSTBA 2,5/ 3-G-5,08
Product line	COMBICON Connectors M
Connector system	COMBICON MSTB 2,5
Product type	PCB headers
Contact connection type	Pin
Range of articles	MSTBA 2,5/..-G
Pitch	5.08 mm
Number of positions	3
Number of rows	1
Number of connections	3
Number of potentials	3
Connection direction of the connector to the PCB	0 °
Pin layout	Linear pinning
Solder pins per potential	1
Type	Standard

1757255 MSTBA 2,5/ 3-G-5,08**6 Mounting****6.1 Flange mounting**

Type of locking	without
Mounting flange	without

7 Material properties**7.1 Material of metal parts**

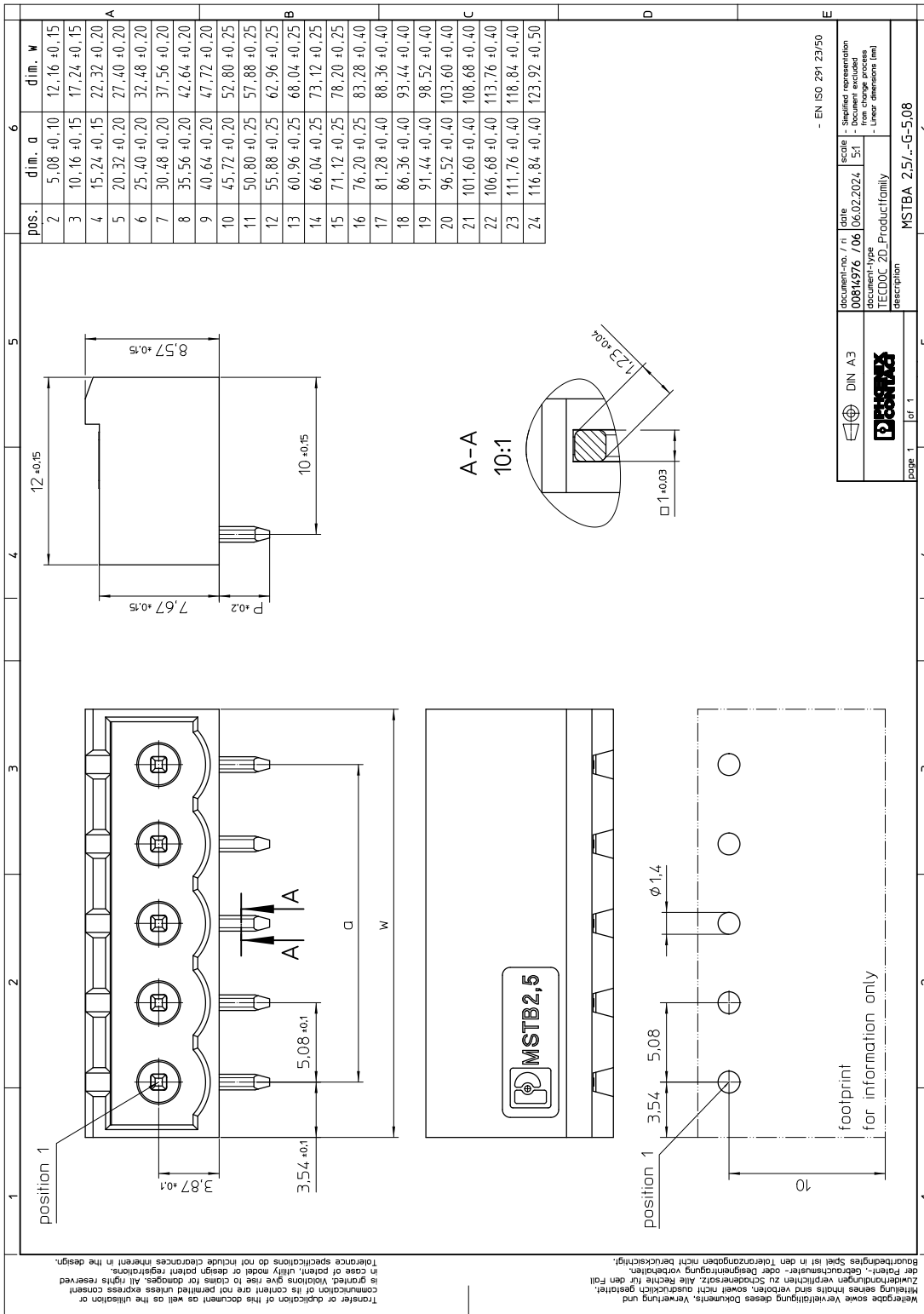
Note	WEEE/RoHS-compliant, whisker-free acc. to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface contact area	Nickel (1.3 - 3 µm Ni) , Tin (3 - 5 µm Sn)
Soldering area surface	Nickel (1.3 - 3 µm Ni) , Tin (3 - 5 µm Sn)
Surface characteristics	Tin-plated
Insulating material data	Housing
Color	green (RAL 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

1757255 MSTBA 2,5/ 3-G-5,08**8 Dimensions****8.1 Dimensions for the product**

Length	12 mm
Width	17.16 mm
Height (without solder pin)	8.57 mm
Total height	11.8 mm
Solder pin [P]	3.23 mm

1757255 MSTBA 2,5/ 3-G-5,08







9 Series drawing



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1757255 MSTBA 2,5/ 3-G-5,08

10 Product drawing

1						2						3						4						5						6																																									
A												B												C												D												E																							
Transfer or duplication of this document as well as the utilisation or communication of its content are not permitted unless express consent is granted. Violations give rise to claims for damages. All rights reserved in case of patent, utility model or design patent registrations.												Zufernordnungen verpflichtet zu Sonderersatz. Alle Rechte für den Fall der Patent-, Gebrauchsmuster- oder Designanmeldung vorbehalten.												Weitergabe sowie Vervielfältigung dieses Dokuments, Verwertung und												Mittelung seines Inhalts sind verboten, soweit nicht ausdrücklich gestattet.												<p>General Information</p> <ul style="list-style-type: none"> - Simplified representation - Document excluded from change process - Linear dimensions (mm) 																							
																																																																							
<p>document-No. / RI 01055324 / 700</p> <p>document-type TELDOC 2D_Productdrawing</p> <p>description MSTBA 2,5/ 3-G-5,08</p>												<p>DIN A3</p> <p>page 1 of 1</p>												<p>date 22.02.2017</p> <p>scale 1:1</p>												<p>© PHOENIX CONTACT</p>																																			

1757255 MSTBA 2,5/ 3-G-5,08**11 Application****12 Packaging specifications**

Type of packaging	packed in cardboard
Packing unit	250

12.1 Temperature limit values

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)

1757255 MSTBA 2,5/ 3-G-5,08**13 Mechanical tests****13.1 Visual examination**

Specification	IEC 61984:2008-10
Visual examination	Test passed
Specification	IEC 60512-1-1:2002-02

13.2 Dimensional test

Dimensional test	Test passed
Specification	IEC 60512-1-2:2002-02

13.3 Resistance of marking

Resistance of marking	Test passed
Specification	IEC 60068-2-70:1995-12

13.4 Polarization and coding

Polarization and coding	Test passed
Specification	IEC 60512-13-5:2006-02
Test force	20 N

13.5 Contact retention in insert

Contact holder in insert Requirements >20 N	Test passed
Specification	IEC 60512-15-1:2008-05

1757255 MSTBA 2,5/ 3-G-5,08**14 Insertion and withdrawal forces**

Insertion and withdrawal force	
Specification	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	6 N

1757255 MSTBA 2,5/ 3-G-5,08**15 Electrical tests**

Rated current / conductor cross section	12 A / 2.5 mm ²
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Contact resistance	1.4 mΩ
Degree of pollution	2

1757255 MSTBA 2,5/ 3-G-5,08**16 Air and creepage distances**

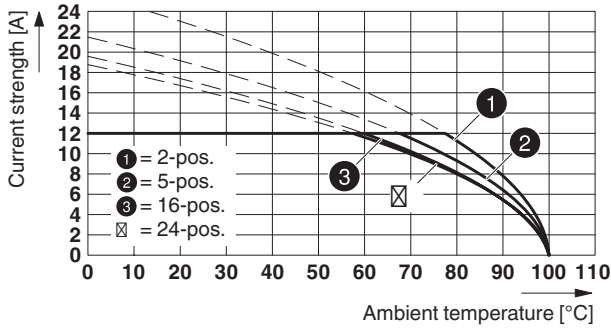
Component	PCB headers		
Specification	IEC 60664-1:2007-04		
Mains type	unearthed mains		
Insulating material group	I		
Comparative tracking index (IEC 60112)	CTI 600		
Rated insulation voltage	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Degree of pollution	3	2	2
Overvoltage category	III	III	II
Minimum clearance case A (inhomogeneous field)	3 mm	3 mm	3 mm
Minimum value of the creepage path requirement in acc. with table	4 mm	3 mm	3.2 mm

1757255 MSTBA 2,5/ 3-G-5,08

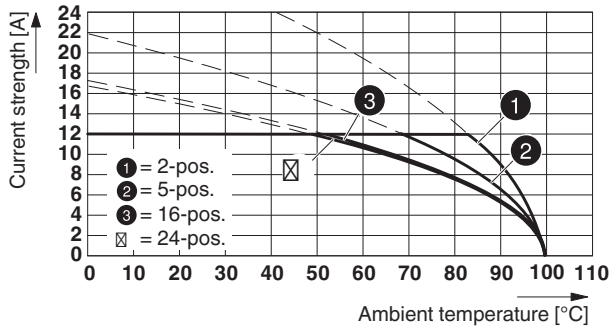
17 Current carrying capacity/derating curves

Specification	IEC 61984:2008-10
Note	Representation based on IEC 60512-5-2:2002-02
Note	For number of positions, see diagram
Reduction factor	0.8
Conductor cross section	2.5 mm ²

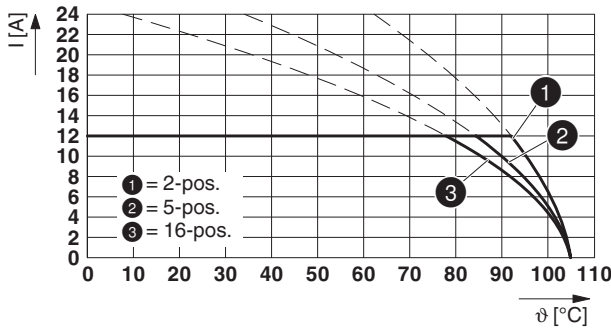
Type: FRONT-MSTB 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Type: IC 2,5/..-G-5,08 with MSTBA 2,5/..-G-5,08

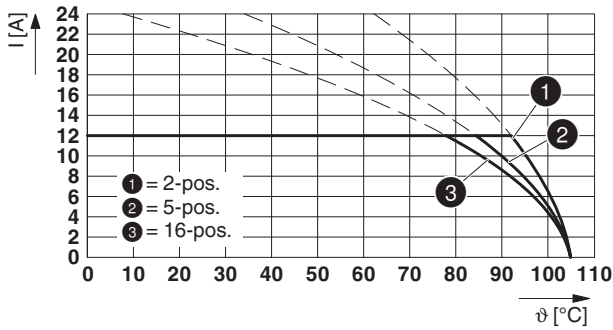


Type: FKCVR 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08

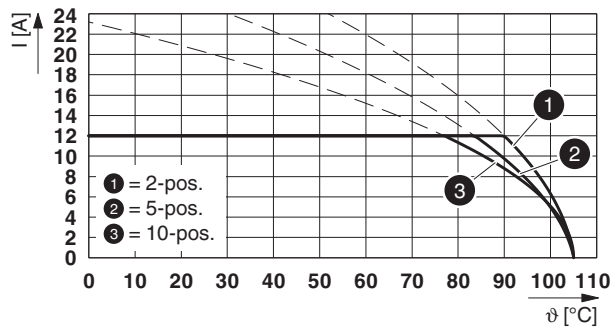


1757255 MSTBA 2,5/ 3-G-5,08

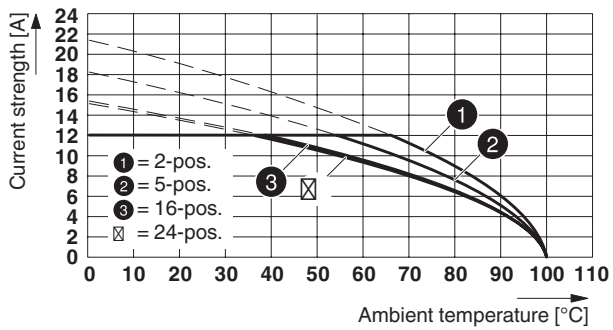
Type: FKCVW 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Type: TFKC 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08

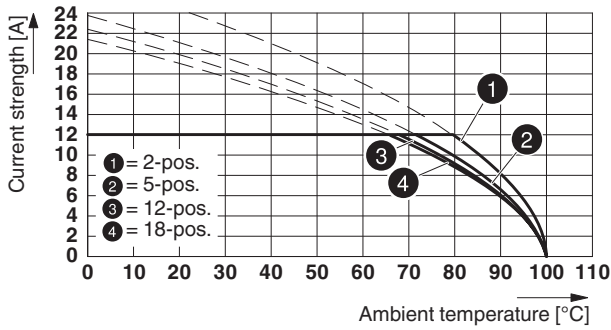


Type: MSTBP 2,5/...-ST-5,08 with MSTBW 2,5/...-G-5,08

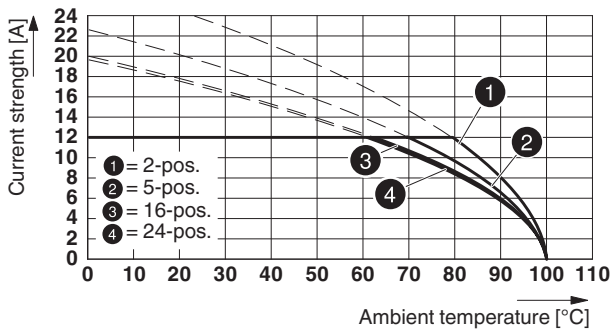


1757255 MSTBA 2,5/ 3-G-5,08

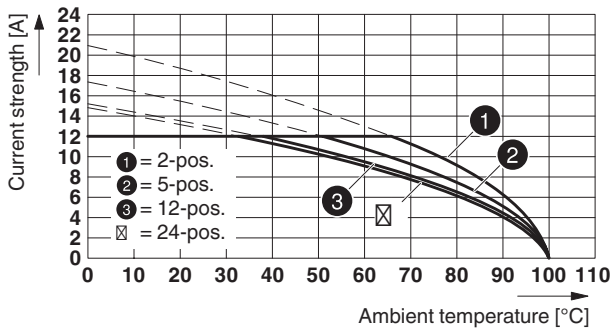
Type: MSTBT 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08-5,08



Type: MSTBP 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08-5,08

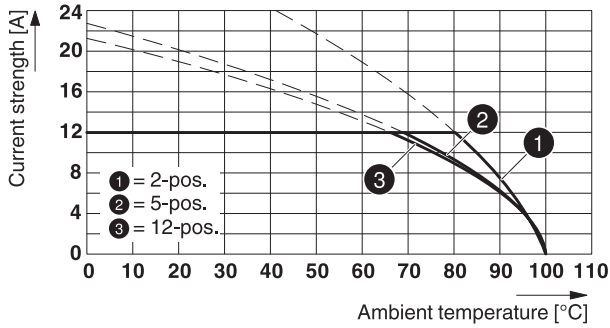


Type: MVSTBR 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08

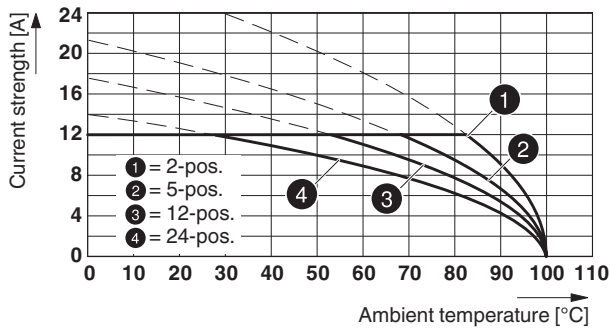


1757255 MSTBA 2,5/ 3-G-5,08

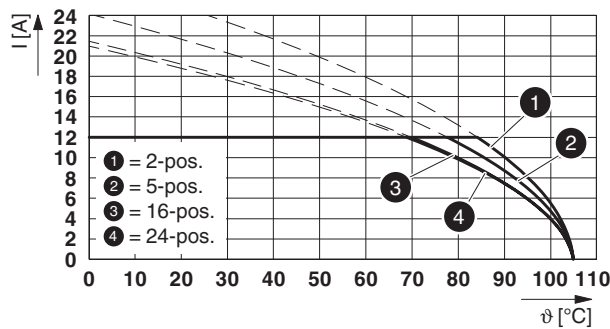
Type: FKCN 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Type: ICV 2,5/..-G-5,08 with MSTBA 2,5/..-G-5,08

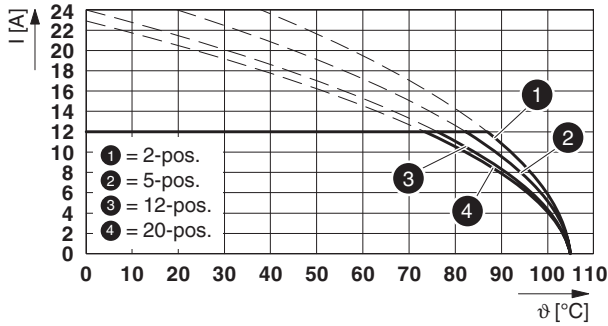


Type: MSTB 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08

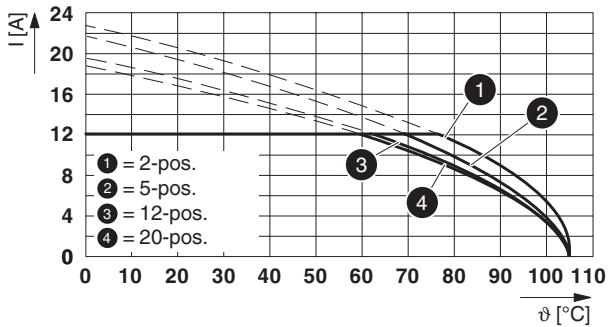


1757255 MSTBA 2,5/ 3-G-5,08

Type: FKCS 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Type: FKCT 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



1757255 MSTBA 2,5/ 3-G-5,08**18 Environmental and durability tests****18.1 Vibration test**

Specification	IEC 60068-2-6:2007-12
Result	Test passed
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
Note	The connecting cables must be strain relieved.




18.2 Insulation resistance

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

19 Data transmission

1757255 MSTBA 2,5/ 3-G-5,08

20 Approvals / Certificates

CSA 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
Usegroup B				
	300 V	10 A	-	-
Usegroup D				
	300 V	10 A	-	-
cULus Recognized 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
Usegroup B				
	300 V	15 A	-	-
Usegroup D				
	300 V	10 A	-	-
VDE Zeichengenehmigung 	Voltage [V]	Current [A]	Cross section [AWG]	Cross section [mm ²]
	250 V	12 A	-	-

1757255 MSTBA 2,5/ 3-G-5,08**21 Commercial Data**

Item no.	1757255
Type	MSTBA 2,5/ 3-G-5,08
Packing unit	250
Net weight	1.1 g
GTIN	4017918029784
	Information that applies locally, see link on page 1

22 corresponding plugs

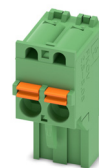
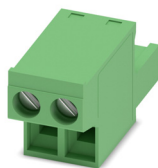
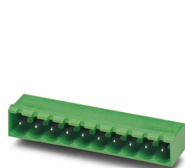
Item no.	Type
1719011	TVMSTB 2,5/ 3-ST-5,08
1754571	FKCN 2,5/ 3-ST-5,08
1757022	MSTB 2,5/ 3-ST-5,08
1777293	FRONT-MSTB 2,5/ 3-ST-5,08
1779990	MSTBT 2,5/ 3-ST-5,08
1792252	MVSTBR 2,5/ 3-ST-5,08
1792760	MVSTBW 2,5/ 3-ST-5,08
1808829	MSTBC 2,5/ 3-ST-5,08
1809514	MSTBC 2,5/ 3-STZ-5,08
1824133	MSTBU 2,5/ 3-STD-5,08
1853023	TMSTBP 2,5/ 3-ST-5,08
1873061	FKC 2,5/ 3-ST-5,08
1873663	FKCVW 2,5/ 3-ST-5,08
1873964	FKCVR 2,5/ 3-ST-5,08
1883268	QC 1/ 3-ST-5,08
1902123	FKCT 2,5/ 3-ST-5,08
1962613	TFKC 2,5/ 3-ST-5,08
1975082	FKCS 2,5/ 3-ST-5,08

23 Accessories

Description	Item No.	Type
Keying cap, for forming sections, plugs onto header pin, green insulating material	1755477	MSTB-BL
	0804293	SK 5,08/3,8:FORTL.ZAHLEN
Coding section, inserted into the recess in the header or the inverted plug, red insulating material	1734401	CR-MSTB
	0805412	SK 5,08/3,8:UNBEDRUCKT
Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm	1051993	B-STIFT

1757255 MSTBA 2,5/ 3-G-5,08

24 Combination tests

**MSTBA 2,5/..-G****FRONT-MSTB 2,5/..-ST****IC 2,5/..-G****FKCVR 2,5/..-ST****FKCVW 2,5/..-ST**

IEC 61984

IEC 61984

IEC 61984

IEC 61984

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

approx. 8 N / 6 N

approx. 8 N / 6 N

approx. 9 N / 7 N

approx. 9 N / 7 N

Polarization when inserted
Requirement >20 N

Test passed

Test passed

Test passed

Test passed

Contact holder in insert
Requirements >20 N

Test passed

Test passed

Test passed

Test passed

Durability tests (B)Contact resistance R₁ 1st level

1.4 mΩ

1.2 mΩ

1.1 mΩ

1.1 mΩ

Contact resistance R₁ 2nd level

Insertion/withdrawal cycles

25

25

25

25

Contact resistance R₂

1.4 mΩ

1.2 mΩ

1.3 mΩ

1.3 mΩ

Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)

4.8 kV

4.8 kV

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)

2.21 kV

2.21 kV

2.21 kV

2.21 kV

Insulation resistance
Requirements > 5 MΩ

> 5 MΩ

> 5 MΩ

> 5 MΩ

> 5 MΩ

Thermal tests (C)

Tested number of positions

24

24

16

16

Tested conductor cross section

2.5 mm²2.5 mm²2.5 mm²2.5 mm²

Test current

12 A

12 A

12 A

12 A

Upper limiting temperature
Requirements < 100°C

Test passed

Test passed

Test passed

Test passed

Climatic tests (D)

Test sequence 1: low temperature storage

-40 °C/2 h

-40 °C/2 h

-40 °C/2 h

-40 °C/2 h

Test sequence 2: heat storage

100 °C/168 h

100 °C/168 h

105 °C/168 h

105 °C/168 h

Test sequence 3: noxious gas storage

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycleRated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)

4.8 kV

4.8 kV

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)

2.21 kV

2.21 kV

2.21 kV

2.21 kV

Environmental and endurance tests (E)

Specification

IEC 61984:2008-10

IEC 61984:2008-10

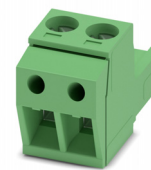
IEC 61984:2008-10

IEC 61984:2008-10

Degree of protection

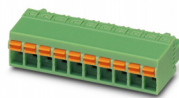
Finger safety with IP20
test fingerFinger safety with IP20
test fingerFinger safety with IP20
test fingerFinger safety with IP20
test finger

1757255 MSTBA 2,5/ 3-G-5,08



MSTBA 2,5/..-G	TFKC 2,5/..-ST	SMSTB 2,5/..-ST	MSTBT 2,5/..-ST	MSTBP 2,5/..-ST
IEC 61984	IEC 61984	IEC 61984	IEC 61984	IEC 61984
Mechanical tests (A)				
Insertion/withdrawal force per position	approx. 13 N / 11 N	approx. 8 N / 6 N	approx. 8 N / 6 N	approx. 8 N / 6 N
Polarization when inserted Requirement >20 N	Test passed	Test passed	Test passed	Test passed
Contact holder in insert Requirements >20 N	Test passed	Test passed	Test passed	Test passed
Durability tests (B)				
Contact resistance R ₁ 1st level	1 mΩ	2.2 mΩ	1.2 mΩ	1.3 mΩ
Contact resistance R ₁ 2nd level				
Insertion/withdrawal cycles	25	25	25	25
Contact resistance R ₂	1 mΩ	2.3 mΩ	1.2 mΩ	1.4 mΩ
Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 μs)	4.8 kV	4.8 kV	4.8 kV	4.8 kV
Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz)	2.21 kV	2.21 kV	2.21 kV	2.21 kV
Insulation resistance Requirements > 5 MΩ	> 5 MΩ	> 5 MΩ	> 5 MΩ	> 5 MΩ
Thermal tests (C)				
Tested number of positions	10	24	18	24
Tested conductor cross section	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Test current	12 A	12 A	12 A	12 A
Upper limiting temperature Requirements < 100°C	Test passed	Test passed	Test passed	Test passed
Climatic tests (D)				
Test sequence 1: low temperature storage	-40 °C/2 h	-40 °C/2 h	-40 °C/2 h	-40 °C/2 h
Test sequence 2: heat storage	105 °C/168 h	100 °C/168 h	100 °C/168 h	100 °C/168 h
Test sequence 3: noxious gas storage	0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle	0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle	0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle	0.2 dm ³ SO ₂ on 300 dm ³ / 40 °C/1 cycle
Rated impulse voltage at sea level Voltage waveform ≥ (1.2/50 μs)	4.8 kV	4.8 kV	4.8 kV	4.8 kV
Power-frequency withstand voltage Voltage waveform ≥ (50/60 Hz)	2.21 kV	2.21 kV	2.21 kV	2.21 kV
Environmental and endurance tests (E)				
Specification	IEC 61984:2008-10	IEC 61984:2008-10	IEC 61984:2008-10	IEC 61984:2008-10
Degree of protection	Finger safety with IP20 test finger	Finger safety with IP20 test finger	Finger safety with IP20 test finger	Finger safety with IP20 test finger

1757255 MSTBA 2,5/ 3-G-5,08

**MSTBA 2,5/..-G**

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

approx. 8 N / 6 N

approx. 8 N / 6 N

approx. 8 N / 6 N

approx. 8 N / 6 N

Polarization when inserted
Requirement >20 N

Test passed

Test passed

Test passed

Test passed

Contact holder in insert
Requirements >20 N

Test passed

Test passed

Test passed

Test passed

Durability tests (B)Contact resistance R₁ 1st level

2.4 mΩ

1.1 mΩ

1.2 mΩ

1.3 mΩ

Contact resistance R₁ 2nd level

Insertion/withdrawal cycles

25

25

25

25

Contact resistance R₂

2.4 mΩ

1.2 mΩ

1.3 mΩ

1.3 mΩ

Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)

4.8 kV

4.8 kV

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)

2.21 kV

2.21 kV

2.21 kV

2.21 kV

Insulation resistance
Requirements > 5 MΩ

> 5 MΩ

> 5 MΩ

> 5 MΩ

> 5 MΩ

Thermal tests (C)

Tested number of positions

24

12

24

24

Tested conductor cross section

2.5 mm²2.5 mm²2.5 mm²2.5 mm²

Test current

12 A DC

12 A

12 A

12 A

Upper limiting temperature
Requirements < 100°C

Test passed

Test passed

Test passed

Test passed

Climatic tests (D)

Test sequence 1: low temperature storage

-40 °C/2 h

-40 °C/2 h

-40 °C/2 h

-40 °C/2 h

Test sequence 2: heat storage

100 °C/168 h

100 °C/168 h

100 °C/168 h

105 °C/168 h

Test sequence 3: noxious gas storage

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycleRated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)

4.8 kV

4.8 kV

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)

2.21 kV

2.21 kV

2.21 kV

2.21 kV

Environmental and endurance tests (E)

Specification

IEC 61984:2008-10

IEC 61984:2008-10

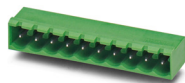
IEC 61984:2008-10

IEC 61984:2008-10

Degree of protection

Finger safety with IP20
test fingerFinger safety with IP20
test fingerFinger safety with IP20
test fingerFinger safety with IP20
test finger

1757255 MSTBA 2,5/ 3-G-5,08

**MSTBA 2,5/..-G**

IEC 61984

FKCS 2,5/..-ST

IEC 61984

FKCT 2,5/..-ST

IEC 61984

Mechanical tests (A)

Insertion/withdrawal force per position

approx. 8 N / 6 N

approx. 8 N / 6 N

Polarization when inserted
Requirement >20 N

Test passed

Test passed

Contact holder in insert
Requirements >20 N

Test passed

Test passed

Durability tests (B)Contact resistance R₁ 1st level

1.1 mΩ

1.3 mΩ

Contact resistance R₁ 2nd level

Insertion/withdrawal cycles

25

25

Contact resistance R₂

1.3 mΩ

1.3 mΩ

Rated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)

2.21 kV

2.21 kV

Insulation resistance
Requirements > 5 MΩ

> 5 MΩ

> 5 MΩ

Thermal tests (C)

Tested number of positions

20

20

Tested conductor cross section

2.5 mm²2.5 mm²

Test current

12 A

12 A

Upper limiting temperature
Requirements < 100°C

Test passed

Test passed

Upper limiting temperature
Requirements < 100°C

Test passed

Test passed

Climatic tests (D)

Test sequence 1: low temperature storage

-40 °C/2 h

-40 °C/2 h

Test sequence 2: heat storage

105 °C/168 h

105 °C/168 h

Test sequence 3: noxious gas storage

0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycle0.2 dm³ SO₂ on 300 dm³/
40 °C/1 cycleRated impulse voltage at sea level
Voltage waveform ≥ (1.2/50 μs)

4.8 kV

4.8 kV

Power-frequency withstand voltage
Voltage waveform ≥ (50/60 Hz)

2.21 kV

2.21 kV

Environmental and endurance tests (E)

Specification

IEC 61984:2008-10

IEC 61984:2008-10

Degree of protection

Finger safety with IP20
test fingerFinger safety with IP20
test finger