

1833894

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DIN rail connector, nominal cross section: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: UMSTBVK 2,5/..-ST, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: DIN rail, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MSTB 2,5, locking: without, mounting: without, type of packaging: packed in cardboard

Your advantages

- Direct plug-in block with universal foot for mounting on NS 32 or NS 35 DIN rail
- · Can be combined with the MSTB 2,5 range

Commercial data

Item number	1833894
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA03
Product key	AACMGC
Catalog page	Page 362 (C-1-2013)
GTIN	4017918110635
Weight per piece (including packing)	31.278 g
Weight per piece (excluding packing)	31.278 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Product properties

Туре	DIN rail mounting
Product line	COMBICON Connectors M
Product type	DIN rail connector
Product family	UMSTBVK 2,5/ST
Number of positions	10
Pitch	5.08 mm
Number of connections	10
Number of rows	1
Mounting flange	without
Number of potentials	10

Electrical properties

Nominal current I _N	12 A
Nominal voltage U _N	320 V
Degree of pollution	3
Contact resistance	2.9 mΩ
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Туре	DIN rail mounting
Connector system	COMBICON MSTB 2,5
Nominal cross section	2.5 mm²
Contact connection type	Socket

Interlock

Locking type	without
Mounting flange	without

Conductor connection

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0°
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section flexible, with ferrule without plastic	0.25 mm² 2.5 mm²



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0.25 mm ² 2.5 mm ² 0.2 mm ² 1 mm ² 0.2 mm ² 1.5 mm ²
*- ***
0.2 mm ² 1.5 mm ²
0.25 mm² 1 mm²
0.5 mm² 1.5 mm²
7 mm
0.5 Nm 0.6 Nm
1212034 CRIMPFOX 6
1212034 CRIMPFOX 6
DIN rail
Slotted (L)
Slotted (L)

Surface characteristics

Metal surface terminal point (top layer)

Metal surface contact area (top layer)

green (6021)
PA
1
600
V0
850
775
125 °C

hot-dip tin-plated Tin (4 - 8 µm Sn)

Tin (4 - 8 µm Sn)

Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no
	switching power (COC). During designated use, they must not be
	plugged in or disconnected when carrying voltage or under load.



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Dimensions

Dimensional drawing	h
Pitch	5.08 mm
Width [w]	52.32 mm
Height [h]	34.8 mm
Length [I]	42.5 mm

Mechanical tests

Test for conductor damage and slackening

Specification	IEC 60999-1:1999-11
Result	Test passed

Pull-out test

Specification	IEC 60999-1:1999-11
Conductor cross section/conductor type/tractive force setpoint/actual value	$0.2 \text{ mm}^2 / \text{ solid } / > 10 \text{ N}$
	0.2 mm² / flexible / > 10 N
	$2.5 \text{ mm}^2 / \text{ solid } / > 50 \text{ N}$
	2.5 mm² / flexible / > 50 N

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	8 N
Withdraw strength per pos. approx.	7 N

Torque test

Specification	IEC 60999-1:1999-11

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

Visual inspection

vious inspection	
Specification	IEC 60512-1-1:2002-02
Result	Test passed

Dimension check



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Specification	IEC 60512-1-2:2002-02
Result	Test passed
ectrical tests	
ection tests	
Fhermal test Test group C	
Specification	IEC 60512-5-1:2002-02
Tested number of positions	16
nsulation resistance	
Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 mm
Note on connection cross section	With connected conductor 4 mm² (solid).
Rated insulation voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
minimum clearance value - non-homogenous field (III/2)	3 mm
minimum creepage distance (III/2)	1.6 mm
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
minimum clearance value - non-homogenous field (II/2)	3 mm
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Sweep speed	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	4.8 kV
Contact resistance R ₁	2.9 mΩ
Contact resistance R ₂	3 mΩ



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nsertion/withdrawal cycles	25
nsulation resistance, neighboring positions	> 5 MΩ
natic test	
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
7	400.00/400.1
hermal stress	100 °C/168 h
nermal stress Power-frequency withstand voltage	2.21 kV
over-frequency withstand voltage	2.21 kV
Power-frequency withstand voltage pient conditions ambient temperature (operation)	2.21 kV -40 °C 100 °C (dependent on the derating curve)



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Classifications

ECLASS

	ECLASS-11.0	27141106		
	ECLASS-12.0	27141106		
	ECLASS-13.0	27141106		
ET	ETIM			
	ETIM 9.0	EC001284		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

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

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