

2200244

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DIN rail connector, color: yellow, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-22,5.., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

Your advantages

- · Space-saving installation under the housing in the DIN rail
- · Contact design enables electronics modules to be easily snapped on
- · Power supply and communication without additional wiring
- Parallel and serial contacts for efficient signal and data transmission

Commercial data

Item number	2200244
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AC08
Product key	ACHACA
GTIN	4046356542197
Weight per piece (including packing)	5.09 g
Weight per piece (excluding packing)	4.952 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

	Recommendation	Material of contact pads for bus connector, galvanic gold (hard gold)
Product properties		
	Product type	DIN rail connector
	Product family	TBUS5-22,5
	Number of positions	5
	Pitch	3.81 mm

Electrical properties

Nominal current I _N	8 A (parallel contacts)
Nominal voltage U _N	125 V
Contact resistance	4.4 mΩ
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	125 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Material specifications

Material data - contact

Contact material	Cu alloy
Surface characteristics	gold-plated

Material data - housing

Color (Housing)	yellow (1018)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

material specifications - connector

<u> </u>	
Color ()	0

Dimensions

Pitch	3.81 mm
Width [w]	29.2 mm
Height [h]	36.5 mm
Length [I]	20.45 mm

Mounting

Mounting type	DIN rail mounting



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Mechanical tests

Result	Test passed	
No. of cycles	25	
Insertion strength per pos. approx.	6 N	
Withdraw strength per pos. approx.	5 N	
Contact holder in insert		
Specification	IEC 60512-15-1:2008-05	
Contact holder in insert Requirements >20 N	Test passed	
Polarization and coding		
Specification	IEC 60512-13-5:2006-02	
Result	Test passed	
/isual inspection		
Specification	IEC 60512-1-1:2002-02	
Result	Test passed	
Result		
Dimension check Specification	IEC 60512-1-2:2002-02	

Environmental and real-life conditions

Vibration	test
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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)
Acceleration	5g (60.1 Hz 500 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis (pos. and neg.)

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	2.95 kV
Contact resistance R ₁	4.4 mΩ
Contact resistance R ₂	4.5 mΩ
Insertion/withdrawal cycles	25

Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 dm 3 /40 °C/1 cycle
Thermal stress	100 °C/168 h



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ower-frequency withstand voltage	1.39 kV
wire test	
pecification	IEC 60695-2-10:2013-04
Геmperature	850 °C
Time of exposure	30 s
ocks	
Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	15g
Shock duration	11 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
bient conditions	
Ambient temperature (operation)	-40 °C 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C 55 °C
Relative humidity (storage/transport)	30 % 70 %
Ambient temperature (assembly)	-5 °C 100 °C

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	5

Air clearances and creepage distances |

All dealances and dreepage distances		
Specification	IEC 60664-1:2007-04	
Insulating material group	I I	
Rated surge voltage (III/3)	2.5 kV	
minimum clearance value - non-homogenous field (III/3)	1.5 mm	
minimum creepage distance (III/3)	1.9 mm	
Rated insulation voltage (III/2)	125 V	
Rated surge voltage (III/2)	2.5 kV	
minimum clearance value - non-homogenous field (III/2)	1.5 mm	
minimum creepage distance (III/2)	0.75 mm	
Rated insulation voltage (II/2)	320 V	
Rated surge voltage (II/2)	2.5 kV	
minimum clearance value - non-homogenous field (II/2)	1.5 mm	
minimum creepage distance (II/2)	1.6 mm	

Packaging specifications

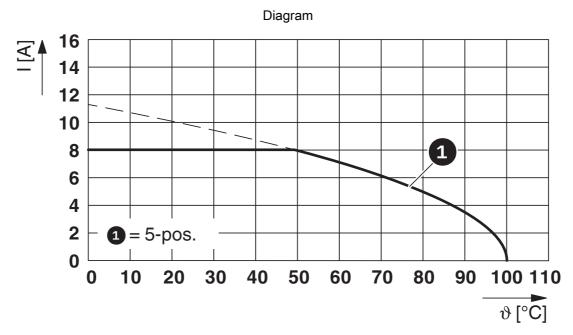
Type of packaging	packed in cardboard
Outer packaging type	Carton



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Drawings



Type: TBUS5...



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2200244

cUL Recognized Approval ID: E118976-20151204				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
	150 V	6 A	-	-

71	UL Recognized Approval ID: E118976-20151204				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		150 V	8 A	-	-

cULus Recognized



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Classifications

ECLASS

	ECLASS-11.0	27460201		
	ECLASS-12.0	27460201		
	ECLASS-13.0	27460201		
ETIM				
	ETIM 9.0	EC002637		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

EU RoHS

20 1.01.0			
Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
Environment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	No substance above 0.1 wt%		

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