

2201732

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DIN rail connector, color: light grey, nominal current: 8 A, 8 A (parallel contacts) (Serial contacts), rated voltage (III/2): 50 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 4 parallel contacts/1 serial contact

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	2201732
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AC08
Product key	ACHACA
Catalog page	Page 39 (NTK-2014)
GTIN	4046356905220
Weight per piece (including packing)	5.32 g
Weight per piece (excluding packing)	5.32 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	TBUS53,81
Number of positions	5
Pitch	3.81 mm

Electrical properties

Nominal current I _N	8 A (parallel contacts)
Nominal voltage U _N	50 V
Degree of pollution	3
Contact resistance	4.4 mΩ
Rated voltage (III/2)	50 V
Rated surge voltage (III/2)	0.8 kV
Rated voltage (II/2)	50 V
Rated surge voltage (II/2)	0.5 kV

Dimensions

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

Material specifications

Material data - contact

Contact material	Cu alloy
Surface characteristics	gold-plated

Material data - housing

Color (Housing)	light grey (7035)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0

Connector

Connection 1

Commodern		
	Insulating material	PA
	CTI according to IEC 60112	600



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Electrical tests

Specification	IEC 60512-5-1:2002-02
Tested number of positions	5
ir clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	I
Rated insulation voltage (III/2)	50 V
Rated surge voltage (III/2)	0.8 kV
minimum clearance value - non-homogenous field (III/2)	0.2 mm
minimum creepage distance (III/2)	0.6 mm
Rated insulation voltage (II/2)	50 V
Rated surge voltage (II/2)	0.5 kV
minimum clearance value - non-homogenous field (II/2)	0.2 mm
minimum creepage distance (II/2)	0.6 mm

Mechanical tests

Insertion and withdrawal forces

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

Visual inspection

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

Dimension check

Specification	IEC 60512-1-2:2002-02
Result	Test passed

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
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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 500 Hz)
Test duration per axis	2.5 h
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	100 0000 4005 00
Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	1.39 kV
Glow-wire test	
Specification	IEC 60695-2-10:2013-04
Temperature	850 °C
Time of exposure	30 s
Shocks	
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.)
Ambient 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
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punting	
Mounting type	DIN rail mounting



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Classifications

ECLASS

202.00					
	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

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

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