

2202403

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DIN rail connector, color: light gray, nominal current: 6 A, 4 A (parallel contacts) (Serial contacts), rated voltage (III/2): 32 V, number of positions: 8, product range: TBUS8-18,8..., pitch: 2.54 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, 6 parallel contacts/2 serial 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
- · Fast module-to-module communication without additional wiring effort
- Efficient connection between the individual housings of the ICS and ME-IO series

Commercial data

Item number	2202403
Packing unit	30 pc
Minimum order quantity	30 pc
Sales key	AC15
Product key	ACHEDA
GTIN	4055626116242
Weight per piece (including packing)	5.06 g
Weight per piece (excluding packing)	5.06 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Notes

Recommendation	Material of contact pads for bus connector, galvanic gold (hard gold)
roduct properties	

Product properties

Product type	DIN rail connector
Product family	TBUS8-18,8
Number of positions	8
Pitch	2.54 mm

Data management status

Article revision	04

Electrical properties

Nominal current I _N	6 A (parallel contacts)
Nominal voltage U _N	32 V
Contact resistance	5.97 mΩ
Rated voltage (III/3)	32 V
Rated surge voltage (III/3)	1.5 kV
Rated voltage (III/2)	32 V
Rated surge voltage (III/2)	1.5 kV
Rated voltage (II/2)	32 V
Rated surge voltage (II/2)	1.5 kV

Material specifications

Material data - contact

Surface characteristics gold-plated	Contact material	Cu alloy
	Surface characteristics	gold-plated

Material data - housing

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

material specifications - connector

Color ()

Dimensions

Pitch	2.54 mm
Width [w]	23.2 mm
Height [h]	37.15 mm



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Length [I]	16.3 mm
ounting	
Mounting type	DIN rail mounting
echanical tests	
Insertion and withdrawal forces	
Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	2.8 N
Withdraw strength per pos. approx.	2.5 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	· ·
Differsion check	
Specification	IEC 60512 1 2:2002 02
Specification Result	IEC 60512-1-2:2002-02 Test passed
Result nvironmental and real-life conditions Vibration test	Test passed
Result nvironmental and real-life conditions Vibration test Specification	Test passed IEC 60068-2-6:2007-12
Result nvironmental and real-life conditions Vibration test Specification Frequency	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz)
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz)
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2.5 h
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz)
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2.5 h X-, Y- and Z-axis (pos. and neg.)
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2.5 h X-, Y- and Z-axis (pos. and neg.)
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2.5 h X-, Y- and Z-axis (pos. and neg.) IEC 60512-9-1:2010-03 1.75 kV
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2.5 h X-, Y- and Z-axis (pos. and neg.)
Result nvironmental and real-life conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level	Test passed IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz) 5g (60.1 Hz 500 Hz) 2.5 h X-, Y- and Z-axis (pos. and neg.) IEC 60512-9-1:2010-03 1.75 kV



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CI	im	at	in	tΔ	ct

Specification	DIN 50018:2013-05
Corrosive stress	$0.2~\mathrm{dm^3SO_2}$ on 300 $\mathrm{dm^3/40~^\circ C/1}$ cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	0.84 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

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	8

Air clearances and creepage distances |

All clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	The state of the s
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	32 V
Rated surge voltage (III/3)	1.5 kV
minimum clearance value - non-homogenous field (III/3)	0.8 mm
minimum creepage distance (III/3)	1.3 mm
Rated insulation voltage (III/2)	32 V
Rated surge voltage (III/2)	1.5 kV
minimum clearance value - non-homogenous field (III/2)	0.5 mm
minimum creepage distance (III/2)	0.53 mm
Rated insulation voltage (II/2)	32 V
Rated surge voltage (II/2)	1.5 kV
minimum clearance value - non-homogenous field (II/2)	0.5 mm
minimum creepage distance (II/2)	0.53 mm



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Packaging specifications

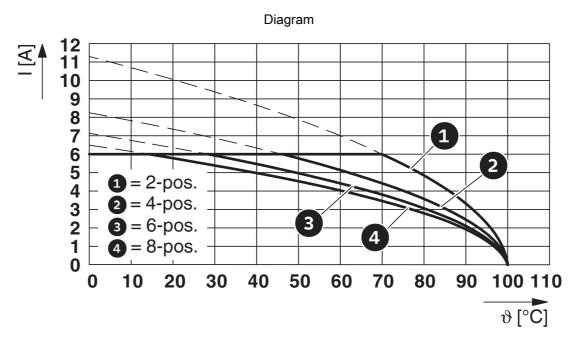
Type of packaging	packed in cardboard
Outer packaging type	Carton



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Drawings



Type: TBUS8-... with FMC 0,5/...-ST-2,54



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2202403

SUL Approv	Recognized val ID: E118976-20151204			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	29.9 V	4 A	-	-
Signal	29.9 V	4 A	-	-

91 UL Recognized Approval ID: E118976-2	0151204			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	29.9 V	6 A	-	-
Signal	29.9 V	4 A	-	-

VDE Zeichengene Approval ID: 40050612				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Power	32 V	6 A	-	-
Signal	32 V	4 A	-	-

cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

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

39121400



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Environmental product compliance

EU RoHS

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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