

1140958

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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, 4 parallel contacts/4 serial contacts

Your advantages

• Up to four parallel and series contacts respectively for efficient signal and data transmission

Commercial data

Item number	1140958
Packing unit	30 pc
Minimum order quantity	30 pc
Sales key	AC15
Product key	ACHEDA
GTIN	4063151098384
Weight per piece (including packing)	5.23 g
Weight per piece (excluding packing)	4.67 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)
Pr	oduct 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

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	
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	
Specification	IEC 60512-1-2:2002-02
Result	Test passed
Result nvironmental and real-life conditions Vibration test Specification	Test passed IEC 60068-2-6:2007-12
nvironmental and real-life conditions Vibration test	
nvironmental and real-life conditions Vibration test Specification	IEC 60068-2-6:2007-12
nvironmental and real-life conditions Vibration test Specification Frequency	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz
vibration test Specification Frequency Sweep speed	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min
vibration test Specification Frequency Sweep speed Amplitude	IEC 60068-2-6:2007-12 10 - 150 - 10 Hz 1 octave/min 0.35 mm (10 Hz 60.1 Hz)
Notice of the conditions Vibration test Specification Frequency Sweep speed Amplitude Acceleration	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)
Vibration test Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis	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
Acceleration Test duration per axis Test directions	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
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.)
Acceleration Test duration per axis Test directions Durability test Specification Specification Frequency Sweep speed Amplitude Acceleration Test duration per axis Test directions	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
Acceleration Test duration per axis Test directions Durability test Specification Impulse withstand voltage at sea level	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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Climatic to	est
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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	
Specification	IEC 60664-1:2007-04
Insulating material group	l I
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

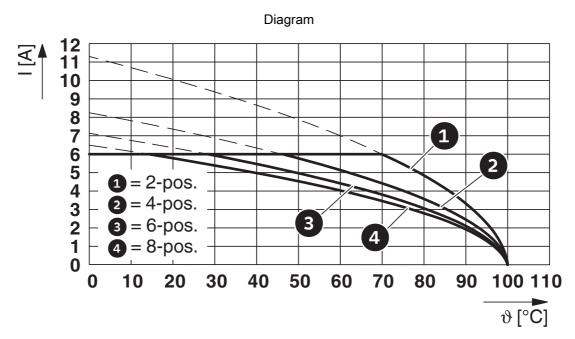
Type of packaging	packed in cardboard
Outer packaging type	Carton



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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/1140958

. 71	cUL Recognized Approval ID: E118976-20	151204			
		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	-	-

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	-	-

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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