

# Product data sheet

Specifications



## Bus coupler, TeSys island, PROFIBUS

TPRBCPFB

### Main

Range	TeSys
Product name	TeSys island
Device short name	TPRBC
Product or component type	Bus coupler
Communication port protocol	Profibus DP
Device presentation	Point of connection between a group of starters and an automation controller Management of the complete island up to 20 modules
Function available	Full integration with SoMove for the control of the island One single 24V DC power supply for the complete island One fieldbus port for communication with an automation controller One service port with an embedded webserver for maintenance
Product compatibility	TPRST motor starter TPRSS SIL motor starter TPRPM power module TPRSM SIL interface module TPRVM voltage interface module TPRAN analog IO module TPRDG digital IO module
Integrated connection type	1 SUB-D 9, connector female for protocol Profibus DP, fieldbus port 1 RJ45, connector female for protocol Ethernet TCP/IP, service port 1 micro SD card port
Communication service	Type 3 data-link layer service for Profibus DHCP client for Ethernet TCP/IP SNTP client for Ethernet TCP/IP
Local signalling	1 LED green/yellow with PWR marking for power supply status 1 LED green/red with MS marking for module status 1 LED green/red with COM marking for network status 1 LED green/red with BS marking for internal bus status 1 LED green/red with SD marking for SD card access (SD)
[Us] rated supply voltage	24 V DC
Supply voltage limits	20.4...28.8 V DC
Rated current	3 A maximum
Protection type	External fuse, 3 A fast fuse for power supply Reverse polarity protection for power supply
Power dissipation in W	7 W maximum

### Complementary

Cybersecurity	Achilles certified
Standards	EN/IEC 60947-4-1 CSA C22.2 No 61010-2-201 UL 61010-2-201

<b>Product certifications</b>	UL CSA EAC Achilles: level 2 PNO
<b>Mounting mode</b>	Horizontal and vertical (35 mm symmetrical rail)
<b>Connections - terminals</b>	Power supply: removable spring terminal block 2 cable(s) 2.5 mm <sup>2</sup> (AWG 14) rigid or flexible
<b>Width</b>	50 mm
<b>Height</b>	118 mm
<b>Depth</b>	114 mm
<b>Net weight</b>	0.204 kg

## Environment

<b>Ambient air temperature for storage</b>	-25...70 °C
<b>Ambient air temperature for operation</b>	-10...60 °C
<b>Relative humidity</b>	5...95 %
<b>Operating altitude</b>	0...2000 m without derating
<b>IP degree of protection</b>	IP20
<b>Pollution degree</b>	2
<b>Protective treatment</b>	TC
<b>Fire resistance</b>	960 °C conforming to UL 94
<b>Shock resistance</b>	15 gn (duration = 11 ms) conforming to IEC 60068-2-27
<b>Vibration resistance</b>	1.5 mm peak to peak (f= 3...13 Hz) conforming to IEC 60068-2-6 1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6
<b>Electromagnetic compatibility</b>	Electrostatic discharge, level 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF fields, level 3, 10 V/m, conforming to EN/IEC 61000-4-3 Communication: fast transients immunity test, level 3, 1 kV, conforming to EN/IEC 61000-4-4 Power supply: fast transients immunity test, level 3, 2 kV, conforming to EN/IEC 61000-4-4 Communication: surge immunity test (common mode), level 3, 1 kV, conforming to EN/IEC 61000-4-5 Power supply: surge immunity test (common mode), level 3, 2 kV, conforming to EN/IEC 61000-4-5

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	288.0 g
<b>Package 1 Height</b>	6.5 cm
<b>Package 1 width</b>	13.5 cm
<b>Package 1 Length</b>	15.5 cm

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information

<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<b>Halogen content performance</b>	Halogen free plastic parts & cables product
<b>California proposition 65</b>	WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

<b>Warranty</b>	18 months
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