Product data sheet

Specifications



Bus coupler, TeSys island, 24VDC, 3A, Profinet IO

TPRBCPFN

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys
Product name	TeSys island
Device short name	TPRBC
Product or Component Type	Bus coupler
Communication Port Protocol	Profinet IO
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 Two fieldbus ports 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	2 RJ45 female Profinet IO, fieldbus port 1 RJ45 female Ethernet TCP/IP, service port 1 micro SD card port
Communication service	Conformance class A (CC-A) Net load class 1 DHCP client SNTP client
Local signalling	1 LED green/yellow PWR power supply status 1 LED green/red SF system fault 1 LED green/red BF network status 1 LED green/red BS internal bus status 1 LED green/red SD 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 power supply Reverse polarity protection 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 EN/IEC 61010-2-201

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Product certifications	UL CSA EAC Achilles level 2 PNO
Mounting mode	Horizontal and vertical 35 mm symmetrical rail)
Connections - terminals	Power supply removable spring terminal block 2 0.004 in² (2.5 mm²) 14 AWG)rigid or flexible
Width	2.0 in (50 mm)
Height	4.6 in (118 mm)
Depth	4.5 in (114 mm)
Net Weight	0.450 lb(US) (0.204 kg)

Environment

Ambient air temperature for storage	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Operation	14…140 °F (-10…60 °C)
Relative Humidity	5…95 %
Operating altitude	0...6561.68 ft (0...2000 m) without derating
IP degree of protection	IP20
Pollution degree	2
Protective treatment	TC
Fire resistance	1760 °F (960 °C) UL 94
Shock resistance	15 gn 11 ms) IEC 60068-2-27
Vibration resistance	1.5 mm peak to peak 3…13 Hz) IEC 60068-2-6 1 gn 13…200 Hz) IEC 60068-2-6
Electromagnetic compatibility	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

Ordering and shipping details

Category	US10I1222345
Discount Schedule	0I12
GTIN	3606489832711
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.7 in (6.8 cm)
Package 1 Width	5.4 in (13.7 cm)

Package 1 Length	6.1 in (15.5 cm)
Package weight(Lbs)	10.0 oz (283.0 g)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**40 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**4 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**36 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**737c99ce-bdba-4209-8b07-d1c5bfde8889**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
California proposition 65	**WARNING: This product can expose you to chemicals including: carbon black and Toluene, which are known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.**
Halogen content performance	**Halogen free plastic parts & cables product**

Use Again

Repack and remanufacture

Recyclability potential, in %	**49**
Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**