Product data sheet

Specifications



SIL interface module, TeSys island, 24VDC, Isolated switching input for safe stop

TPRSM001

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys
Product name	TeSys island
Device short name	TPRSM
Product or Component Type	SIL interface module
Device presentation	Implementation of a safe stop function for SIL motor starters TPRSS Safe stop operable for safety-related system conforming to ISO 13849-1 Operational only when connected to a bus coupler TPRBC
Function of module	Safe stop with 1NC or 2NC contacts monitoring
Product compatibility	TPRBC bus coupler TPRSS SIL motor starter
[Ue] rated operational voltage	Input/output circuit 24 V DC
[Ui] rated insulation voltage	Input/output circuit 50 V
[Uimp] rated impulse withstand voltage	2 kV input/output circuit IEC 60947-1
Overvoltage category	III
Input type	Isolated switching input safe stop
Input protection type	Internal, electronic
Input voltage	15...28.8 V DC state 1 0...5 V DC state 0
Output type	Relay instantaneous opening, 1 NO, potential free
Output thermal current	8 A relay output
Protection type	External fuse, 8 A gG relay output
Local signalling	1 LED (green/red) for DS (device status) 1 LED (green/red) for SS (safe stop status)

Complementary

[Us] rated supply voltage	24 V DC supplied by the bus coupler
Current consumption	10 mA
Power dissipation in W	0.7 W maximum
Safety function	Safe stop: category 0 conforming to IEC 60204-1 Safe stop: category 1 conforming to IEC 60204-1
Safety integrity level	SIL 2 conforming to IEC 61508 in single channel system architecture SILCL 2 conforming to IEC 62061 in single channel system architecture PL = d category 2 conforming to ISO 13849-1 in single channel system architecture
Standards	UL 60947-5-1 IEC 60947-5-1

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	EAC (pending) UL CSA
Mounting mode	Horizontal and vertical 35 mm symmetrical rail)
Connections - terminals	Control circuit removable spring terminal block 5 0.0003…0.004 in² (0.2…2.5 mm²) 24 AWG...14 AWG)rigid Control circuit removable spring terminal block 5 0.0003…0.004 in² (0.2…2.5 mm²) 24 AWG...14 AWG)flexible without cable end Control circuit removable spring terminal block 5 0.0004…0.004 in² (0.25…2.5 mm²) 22 AWG...14 AWG)flexible with cable end
Width	1.0 in (25 mm)
Height	4.6 in (118 mm)
Depth	4.5 in (114 mm)
Net Weight	0.351 lb(US) (0.159 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 Fast transients immunity test, level 3, 2 kV, conforming to EN/IEC 61000-4-4 Surge immunity test (common mode), level 3, 2 kV, conforming to EN/IEC 61000-4-5

Ordering and shipping details

Category	US1CTR121254
Discount Schedule	CTR1
GTIN	3606489832872
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.559 in (6.500 cm)
Package 1 Width	5.315 in (13.500 cm)
Package 1 Length	6.102 in (15.500 cm)
Package weight(Lbs)	9.524 oz (270.000 g)

Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	11.065 lb(US) (5.019 kg)

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	**8 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]	**4 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	**B164c55a-185e-47e2-96d5-e03c25b77067**
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 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.**