



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 for input/output circuit conforming to IEC 60947-1
Overvoltage category	III
Input type	Isolated switching input for 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 circuit(s), potential free
Output thermal current	8 A for relay output
Protection type	External fuse, 8 A gG fuse for 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
Product certifications	EAC (pending)[RETURN]UL[RETURN]CSA
Mounting mode	Horizontal and vertical (35 mm symmetrical rail)
Connections - terminals	Control circuit: removable spring terminal block 5 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) rigid Control circuit: removable spring terminal block 5 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: removable spring terminal block 5 cable(s) 0.25...2.5 mm <sup>2</sup> (AWG 22...AWG 14) flexible with cable end
Width	25 mm

Height	118 mm
Depth	114 mm
Net weight	0.159 kg

## Environment

Ambient air temperature for storage	-25...70 °C
Ambient air temperature for operation	-10...60 °C
Relative humidity	5...95 %
Operating altitude	0...2000 m without derating
IP degree of protection	IP20
Pollution degree	2
Protective treatment	TC
Fire resistance	960 °C conforming to UL 94
Shock resistance	15 gn (duration = 11 ms) conforming to IEC 60068-2-27
Vibration resistance	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
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

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.5 cm
Package 1 Width	13.5 cm
Package 1 Length	15.5 cm
Package 1 Weight	266.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.019 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<input checked="" type="checkbox"/> <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	<input checked="" type="checkbox"/> <a href="#">China RoHS Declaration</a>
RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> <a href="#">Product Environmental Profile</a>
Circularity Profile	<input checked="" type="checkbox"/> <a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Halogen content performance	Halogen free plastic parts product

## Contractual warranty

Warranty	18 months
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