

TPRSM001

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



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
Overtoltage 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	For DS (device status) 1 LED (green/red) For SS (safe stop status) 1 LED (green/red)

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 0.00...0.00 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)rigid Control circuit removable spring terminal block 5 0.00...0.00 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)flexible without cable end Control circuit removable spring terminal block 5 0.00...0.00 in ² (0.25...2.5 mm ²) AWG 22...AWG 14)flexible with cable end
Width	0.98 in (25 mm)
Height	4.65 in (118 mm)

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Depth	4.49 in (114 mm)
Net Weight	0.35 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	22353-TESYS ISLAND AUXILIARY DEVICES
Discount Schedule	I12
GTIN	3606489832872
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.56 in (6.5 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	6.10 in (15.5 cm)
Package 1 Weight	9.38 oz (266.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	11.07 lb(US) (5.019 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

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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