

Product data sheet

Characteristics

TPRVM001

Voltage interface module, TeSys island,
690VAC 47-63 Hz, Isolated switching input for
safe stop



Main

Range	TeSys
Product name	TeSys island
Device short name	TPRVM
Product or Component Type	Voltage interface module
Device presentation	Monitoring of the mains voltage powering the island Reporting of the voltage to the bus coupler to enable power & energy monitoring
Function of module	Monitoring of voltages in single phase systems L-N or L-L Monitoring of voltages in 3-phase systems without neutral N connection Calculation of RMS phase voltages, voltage phase sequence, fundamental frequency Identification of dip and swell events level and duration
Product compatibility	TPRBC bus coupler
[Ue] rated operational voltage	690 V AC 47...63 Hz
[Ui] rated insulation voltage	690 V IEC 61010-1
[Uimp] rated impulse withstand voltage	6 kV IEC 61010-1
Overvoltage category	III
Monitoring type	Phase voltage 100...690 V Phase frequency 47...63 Hz Phase sequence
Measurement accuracy	Voltage +/- 5 %, Frequency +/- 1 Hz,
Local signalling	For DS (device status) 1 LED (green/red) For VS (voltage status) 1 LED (green/red)

Complementary

[Us] rated supply voltage	24 V DC supplied by the bus coupler
Current consumption	2 mA
Power dissipation in W	0.5 W maximum
Standards	IEC 61010-2-201 UL 61010-2-201 CSA C22.2 No 61010-2-201
Product certifications	CSA UL EAC (pending)
Mounting mode	Horizontal and vertical 35 mm symmetrical rail)
Connections - terminals	Measuring input removable spring terminal block 3 0.00...0.00 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)rigid Measuring input removable spring terminal block 3 0.00...0.00 in ² (0.2...2.5 mm ²) AWG 24...AWG 14)flexible without cable end Measuring input removable spring terminal block 3 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)
Depth	4.49 in (114 mm)
Net Weight	0.35 lb(US) (0.159 kg)

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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 Line voltage circuit: fast transients immunity test, level 3, 2 kV, conforming to EN/IEC 61000-4-4 Line voltage circuit: 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	3606489832889
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 (6.500 cm)
Package 1 Width	5.31 in (13.500 cm)
Package 1 Length	6.10 in (15.500 cm)
Package 1 Weight	8.22 oz (233.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	9.47 lb(US) (4.295 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
REACH Regulation	<input checked="" type="checkbox"/> REACH Declaration
EU RoHS Directive	Compliant <input checked="" type="checkbox"/> EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	<input checked="" type="checkbox"/> China RoHS Declaration
RoHS exemption information	<input checked="" type="checkbox"/> Yes
Environmental Disclosure	<input checked="" type="checkbox"/> Product Environmental Profile
Circularity Profile	<input checked="" type="checkbox"/> 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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