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 conforming to IEC 61010-1
[Uimp] rated impulse withstand voltage	6 kV conforming to 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	1 LED (green/red) for DS (device status) 1 LED (green/red) for VS (voltage status)

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 cable(s) 0.2…2.5 mm² (AWG 24...AWG 14) rigid Measuring input: removable spring terminal block 3 cable(s) 0.2…2.5 mm² (AWG 24...AWG 14) flexible without cable end Measuring input: removable spring terminal block 3 cable(s) 0.25…2.5 mm² (AWG 22...AWG 14) flexible with cable end
Width	25 mm
Height	118 mm
Depth	114 mm
Product 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 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.500 cm
Package 1 Width	13.500 cm
Package 1 Length	15.500 cm
Package 1 Weight	233.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	16
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.295 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
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
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months