

# Product data sheet

Specifications



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

TPRVM001

### 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 mm <sup>2</sup> (AWG 24...AWG 14) rigid Measuring input: removable spring terminal block 3 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end

Measuring input: removable spring terminal block 3 cable(s) 0.25...2.5 mm<sup>2</sup> (AWG 22...AWG 14) flexible with cable end

<b>Width</b>	25 mm
<b>Height</b>	118 mm
<b>Depth</b>	114 mm
<b>Net weight</b>	0.159 kg

## Environment

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

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

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information

<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>WEEE</b>	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<b>Halogen content performance</b>	Halogen free plastic parts product
<b>California proposition 65</b>	WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

<b>Warranty</b>	18 months
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## Recommended replacement(s)