

# 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<br>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<br>Monitoring of voltages in 3-phase systems without neutral N connection<br>Calculation of RMS phase voltages, voltage phase sequence, fundamental frequency<br>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<br>Phase frequency 47...63 Hz<br>Phase sequence  |
| Measurement accuracy                   | Voltage +/- 5 %,<br>Frequency +/- 1 Hz,  |
| Local signalling                       | For DS (device status) 1 LED (green/red)<br>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<br>UL 61010-2-201<br>CSA C22.2 No 61010-2-201  |
| Product certifications    | CSA[RETURN]UL[RETURN]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 <sup>2</sup> (0.2...2.5 mm <sup>2</sup> )<br>AWG 24...AWG 14)rigid<br>Measuring input removable spring terminal block 3 0.00...0.00 in <sup>2</sup> (0.2...2.5 mm <sup>2</sup> )<br>AWG 24...AWG 14)flexible without cable end<br>Measuring input removable spring terminal block 3 0.00...0.00 in <sup>2</sup> (0.25...<br>2.5 mm <sup>2</sup> ) 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)   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## 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<br>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<br>Radiated RF fields, level 3, 10 V/m, conforming to EN/IEC 61000-4-3<br>Line voltage circuit: fast transients immunity test, level 3, 2 kV, conforming to EN/IEC 61000-4-4<br>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            | <a href="#">REACH Declaration</a>  |
| EU RoHS Directive           | Compliant with Exemptions  |
| Mercury free                | Yes  |
| China RoHS Regulation       | <a href="#">China RoHS Declaration</a>   |
| RoHS exemption information  | <a href="#">Yes</a>  |
| Environmental Disclosure    | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile         | <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

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| Warranty | 18 months |
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