

# Product datasheet

Specifications



Power interface module. TeSys island. 40A AC-1. 38A AC-3. 18.5kW / 20hp

TPRPM038

Price: 6,545.13 ZAR

## Main

|                                             |                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range Of Product                            | TeSys                                                                                                                                                                                                                                                                              |
| Product Name                                | TeSys island                                                                                                                                                                                                                                                                       |
| Device Short Name                           | TPRPM                                                                                                                                                                                                                                                                              |
| Product Or Component Type                   | Power module                                                                                                                                                                                                                                                                       |
| Device Presentation                         | Power module connected to an automation controller through a bus coupler<br>Operational only when connected to a bus coupler                                                                                                                                                       |
| Function Available                          | Upstream voltage presence detection<br>Electronic thermal overload protection<br>Monitoring of currents<br>Control of third party power devices when associated to TPRDG IO module                                                                                                 |
| Product Compatibility                       | TPRBC bus coupler<br>TPRDG digital IO module<br>TPRAN analog IO module                                                                                                                                                                                                             |
| Poles Description                           | 3P                                                                                                                                                                                                                                                                                 |
| Motor Power Kw                              | 9 kW at 230 V AC 50 Hz<br>18.5 kW at 380...415 V AC 50 Hz<br>18.5 kW at 440 V AC 50 Hz<br>18.5 kW at 500 V AC 50 Hz<br>18.5 kW at 690 V AC 50 Hz                                                                                                                                   |
| Motor Power Hp (UI / Csa)                   | 2 hp at 120 V AC 60 Hz for 1 phase motors<br>5 hp at 240 V AC 60 Hz for 1 phase motors<br>10 hp at 208 V AC 60 Hz for 3 phases motors<br>10 hp at 240 V AC 60 Hz for 3 phases motors<br>20 hp at 480 V AC 60 Hz for 3 phases motors<br>25 hp at 600 V AC 60 Hz for 3 phases motors |
| [Ue] Rated Operational Voltage              | <= 690 V AC 47...63 Hz                                                                                                                                                                                                                                                             |
| [Ie] Rated Operational Current              | 38 A (at <50 °C) at <= 440 V AC-3<br>40 A (at <50 °C) at <= 440 V AC-1<br>40 A (at <50 °C) AC-3e                                                                                                                                                                                   |
| [Ith] Conventional Free Air Thermal Current | 40 A (at 50 °C)                                                                                                                                                                                                                                                                    |
| [Ui] Rated Insulation Voltage               | 690 V conforming to IEC 60947-4-1<br>600 V conforming to UL 60947-4-1<br>600 V conforming to CSA C22.2 No 60947-4-1                                                                                                                                                                |
| [Uimp] Rated Impulse Withstand Voltage      | 6 kV                                                                                                                                                                                                                                                                               |
| Overvoltage Category                        | III                                                                                                                                                                                                                                                                                |
| Thermal Protection Adjustment Range         | 0.76...38 A                                                                                                                                                                                                                                                                        |
| Thermal Overload Class                      | Class 5...30                                                                                                                                                                                                                                                                       |
| Reset                                       | Remotely or automatically                                                                                                                                                                                                                                                          |
| [Uc] Control Circuit Voltage                | 24 V DC supplied by the bus coupler                                                                                                                                                                                                                                                |
| Current Consumption                         | 60 mA                                                                                                                                                                                                                                                                              |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: 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

|                        |                  |
|------------------------|------------------|
| Power Dissipation In W | 0.9 W at Ie AC-3 |
|------------------------|------------------|

## Complementary

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection Type         | Thermal overload protection<br>Motor overheat<br>Overcurrent<br>Undercurrent<br>Jam<br>Long start<br>Stall<br>Rapid cycle lockout<br>Phase loss<br>Rapid restart lockout<br>Phase reversal<br>Phase sequence<br>Phase unbalance<br>Ground current                                                                                                                                                                                                                                                                           |
| Monitoring Type         | Time device ON<br>Number of faults<br>Number of device power cycles<br>Average current Iavg<br>Average voltage Vavg<br>Max current Imax<br>Max voltage Vmax                                                                                                                                                                                                                                                                                                                                                                 |
| Local Signalling        | 1 LED (green/red) for DS (device status)<br>1 LED (green/red) for LS (load status)                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Standards               | EN/IEC 60947-1<br>EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product Certifications  | EAC<br>CCC<br>CSA<br>UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mounting Mode           | Horizontal and vertical (35 mm symmetrical DIN rail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Connections - Terminals | Screw-clamp terminals 1 cable(s) 1.5...10 mm² (AWG 16...AWG 8) rigid<br>Screw-clamp terminals 2 cable(s) 1.5...10 mm² (AWG 16...AWG 8) rigid<br>Screw-clamp terminals 1 cable(s) 2.5...10 mm² (AWG 14...AWG 8) flexible without cable end<br>Screw-clamp terminals 2 cable(s) 2.5...10 mm² (AWG 14...AWG 8) flexible without cable end<br>Screw-clamp terminals 1 cable(s) 1.5...10 mm² (AWG 16...AWG 10) flexible with cable end<br>Screw-clamp terminals 2 cable(s) 1.5...6 mm² (AWG 16...AWG 10) flexible with cable end |
| Tightening Torque       | 2.5 N.m - with screwdriver flat Ø 6 mm<br>2.5 N.m - with screwdriver Philips No 3                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Width                   | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Height                  | 121 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Depth                   | 115 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Net Weight              | 0.255 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Environment

|                                       |                                                                  |
|---------------------------------------|------------------------------------------------------------------|
| Ambient Air Temperature For Storage   | -25...70 °C                                                      |
| Ambient Air Temperature For Operation | -10...50 °C without derating<br>50...60 °C with current derating |
| 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<br>850 °C conforming to IEC 60695-2-1<br>650 °C conforming to IEC 60695-2-12                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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<br>1 gn (f= 13...200 Hz) conforming to IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electromagnetic Compatibility | Electrostatic discharge immunity test, level 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2<br>Radiated RF field immunity test, level 3, 10 V/m, conforming to EN/IEC 61000-4-3<br>Fast transient immunity test, level 4, 4 kV, conforming to EN/IEC 61000-4-4<br>Surge immunity test (differential mode), level 3, 2 kV, conforming to EN/IEC 61000-4-5<br>Surge immunity test (common mode), level 4, 4 kV, conforming to EN/IEC 61000-4-5<br>Conducted RF disturbance immunity test, 20 V, conforming to EN/IEC 61000-4-6 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 5.0 cm   |
| Package 1 Width              | 12.5 cm  |
| Package 1 Length             | 13.0 cm  |
| Package 1 Weight             | 308.0 g  |
| Unit Type Of Package 2       | S02      |
| Number Of Units In Package 2 | 14       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 4.657 kg |

Sustainability



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Transparency   RoHS/REACH

## Well-being performance

|                                                                                                                      |     |
|----------------------------------------------------------------------------------------------------------------------|-----|
|  Mercury Free                       |     |
|  Rohs Exemption Information         | Yes |
|  Halogen Free Plastic Parts Product |     |

## Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                     |