

# Product datasheet

Specifications



## Power interface module, TeSys island, 80A AC-1, 80A AC-3, 37kW / 50hp

Local distributor code:

425225716

TPRPM080

**EAN Code: 3606489832865**

### Main

<b>Range of product</b>	TeSys
<b>Product name</b>	TeSys island
<b>Device short name</b>	TPRPM
<b>Product or component type</b>	Power module
<b>Device presentation</b>	Power module connected to an automation controller through a bus coupler Operational only when connected to a bus coupler
<b>Function available</b>	Upstream voltage presence detection Electronic thermal overload protection Monitoring of currents Control of third party power devices when associated to TPRDG IO module
<b>Product compatibility</b>	TPRBC bus coupler TPRDG digital IO module TPRAN analog IO module
<b>Poles description</b>	3P
<b>Motor power kW</b>	22 kW at 230 V AC 50 Hz 37 kW at 380...415 V AC 50 Hz 37 kW at 440 V AC 50 Hz 37 kW at 500 V AC 50 Hz 37 kW at 690 V AC 50 Hz
<b>motor power HP (UL / CSA)</b>	5 hp at 120 V AC 60 Hz for 1 phase motors 10 hp at 240 V AC 60 Hz for 1 phase motors 20 hp at 208 V AC 60 Hz for 3 phases motors 20 hp at 240 V AC 60 Hz for 3 phases motors 40 hp at 480 V AC 60 Hz for 3 phases motors 50 hp at 600 V AC 60 Hz for 3 phases motors
<b>[Ue] rated operational voltage</b>	<= 690 V AC 47...63 Hz
<b>[Ie] rated operational current</b>	80 A (at <50 °C) at <= 440 V AC-3 80 A (at <50 °C) at <= 440 V AC-1 80 A (at <50 °C) AC-3e
<b>[Ith] conventional free air thermal current</b>	80 A (at 50 °C)
<b>[Ui] rated insulation voltage</b>	690 V conforming to IEC 60947-4-1 600 V conforming to UL 60947-4-1 600 V conforming to CSA C22.2 No 60947-4-1
<b>[Uimp] rated impulse withstand voltage</b>	6 kV
<b>Overvoltage category</b>	III
<b>Thermal protection adjustment range</b>	4...80 A
<b>Thermal overload class</b>	Class 5...30
<b>Reset</b>	Remotely or automatically
<b>[Uc] control circuit voltage</b>	24 V DC supplied by the bus coupler
<b>Current consumption</b>	60 mA

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Power dissipation in W	2.3 W at le AC-3
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## Complementary

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Protection type	Thermal overload protection Motor overheat Overcurrent Undercurrent Jam Long start Stall Rapid cycle lockout Rapid restart lockout Phase reversal Phase loss Phase sequence Phase unbalance Ground current
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Monitoring type	Time device ON Number of faults Number of device power cycles Average current Iavg Average voltage Vavg Max current Imax Max voltage Vmax
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Local signalling	1 LED (green/red) for DS (device status) 1 LED (green/red) for LS (load status)
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Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
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Product certifications	CCC UL EAC CSA
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Mounting mode	Horizontal and vertical (35 mm symmetrical DIN rail)
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Connections - terminals	EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> (AWG 16...AWG 2) rigid EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> (AWG 16...AWG 4) rigid EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> (AWG 16...AWG 2) flexible without cable end EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> (AWG 16...AWG 4) flexible without cable end EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> (AWG 16...AWG 2) flexible with cable end EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> (AWG 16...AWG 4) flexible with cable end
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Tightening torque	5 N.m - cable 1...25 mm <sup>2</sup> hexagonal 4 mm 8 N.m - cable 25...35 mm <sup>2</sup> hexagonal 4 mm
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Width	55 mm
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Height	136 mm
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Depth	125 mm
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Net weight	0.425 kg
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## Environment

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Ambient air temperature for storage	-25...70 °C
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Ambient air temperature for operation	-10...50 °C without derating 50...60 °C with current derating
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Relative humidity	5...95 %
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Operating altitude	0...2000 m without derating
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IP degree of protection	IP20
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<b>Pollution degree</b>	2
<b>Protective treatment</b>	TC
<b>Fire resistance</b>	960 °C conforming to UL 94 850 °C conforming to IEC 60695-2-1 650 °C conforming to IEC 60695-2-12
<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 immunity test, level 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF field immunity test, level 3, 10 V/m, conforming to EN/IEC 61000-4-3 Fast transient immunity test, level 4, 4 kV, conforming to EN/IEC 61000-4-4 Surge immunity test (differential mode), level 3, 2 kV, conforming to EN/IEC 61000-4-5 Surge immunity test (common mode), level 4, 4 kV, conforming to EN/IEC 61000-4-5 Conducted RF disturbance immunity test, 20 V, conforming to EN/IEC 61000-4-6

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.000 cm
<b>Package 1 Width</b>	15.000 cm
<b>Package 1 Length</b>	19.500 cm
<b>Package 1 Weight</b>	536.000 g
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	8
<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>	4.760 kg

## Logistical informations

<b>Country of origin</b>	FR
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## Contractual warranty

<b>Warranty</b>	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

[EU RoHS Directive](#)

Compliant with Exemptions

SCIP Number

9d263b3f-2aca-4520-8069-dc29d672f647

REACH Regulation

[REACH Declaration](#)

Halogen-free status

Halogen free plastic parts product

## Use Again

### Repack and remanufacture


End of life manual availability

[End of Life Information](#)

Take-back

No

WEEE Label

 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins