

Product data sheet

Specifications



Motor starter, TeSys island, 15A at AC-1, 9A at AC-3, 4kW, 5hp, DOL type

TPRST009

Main

Range	TeSys
Product name	TeSys island
Device short name	TPRST
Product or component type	Motor starter
Motor starter type	Direct on line
Device presentation	Direct starter connected to an automation controller through a bus coupler Operational only when connected to a bus coupler
Function available	Upstream voltage presence detection Electrical line and load protection Power and energy monitoring when connected with TPRVM voltage module
Product compatibility	TPRBC bus coupler TPRVM voltage interface module
Poles description	3P (3 NO)
Utilisation category	AC-1 AC-2 AC-3 AC-4 AC-3e
Motor power kW	2.2 kW at 230 V 50 Hz (AC-3) 4 kW at 380...415 V 50 Hz (AC-3) 4 kW at 440 V 50 Hz (AC-3) 5.5 kW at 500 V 50 Hz (AC-3) 5.5 kW at 690 V 50 Hz (AC-3)
motor power HP (UL / CSA)	0.33 hp at 120 V AC 60 Hz for 1 phase motors 1 hp at 240 V AC 60 Hz for 1 phase motors 2 hp at 208 V AC 60 Hz for 3 phases motors 2 hp at 240 V AC 60 Hz for 3 phases motors 5 hp at 480 V AC 60 Hz for 3 phases motors 7.5 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	9 A (at <50 °C) at <= 440 V AC-3 15 A (at <50 °C) at <= 440 V AC-1
[Ith] conventional free air thermal current	15 A (at 50 °C)
[Ui] rated insulation voltage	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
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-1
Overvoltage category	III
Thermal protection adjustment range	0.18...9 A
Thermal overload class	Class 5...30

Reset	Remotely or automatically
Irms rated making capacity	250 A at 440 V conforming to IEC 60947
Rated breaking capacity	250 A at 440 V conforming to IEC 60947
[Icw] rated short-time withstand current	210 A 40 °C - 1 s 105 A 40 °C - 10 s 61 A 40 °C - 1 min 30 A 40 °C - 10 min
Average impedance	2.5 mOhm - Ith 15 A 50 Hz
Power dissipation per pole	0.2 W AC-3 - Ith 9 A 0.56 W AC-1 - Ith 15 A
[Uc] control circuit voltage	24 V DC supplied by the bus coupler
Current consumption	160 mA contactor sealed 160 mA contactor closing
Power dissipation in W	3.5 W at Ie AC-3

Complementary

Mechanical durability	30 Mcycles
Electrical durability	2 Mcycles 9 A AC-3 at Ue 440 V 1.2 Mcycles 15 A AC-1 at Ue 440 V
Maximum operating rate	3600 cyc/mn AC-3
Operating time	< 100 ms closing < 30 ms opening
Safety performance level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Protection type	Thermal overload protection Motor overload Overcurrent Undercurrent Jam Long start Stall Rapid cycle lockout Phase sequence Rapid restart lockout Phase reversal Phase loss Phase unbalance Ground current
Monitoring type	Time device ON Time device switch ON Number of faults Number of switching cycles Number of device power cycles Average current Iavg Average voltage Vavg Max current Imax Max voltage Vmax Active and reactive power with voltage module Active and reactive energy with voltage module True power factor with voltage module
Local signalling	1 LED (green/red) for DS (device status) 1 LED (green/red) for LS (load status)
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	EAC CSA CCC UL

Mounting mode	Horizontal and vertical (35 mm symmetrical DIN rail)
Connections - terminals	Screw-clamp terminals 1 cable(s) 1...4 mm ² (AWG 16...AWG 12) rigid Screw-clamp terminals 2 cable(s) 1...4 mm ² (AWG 16...AWG 12) rigid Screw-clamp terminals 1 cable(s) 1.5...4 mm ² (AWG 16...AWG 12) flexible without cable end Screw-clamp terminals 2 cable(s) 1.5...4 mm ² (AWG 16...AWG 12) flexible without cable end Screw-clamp terminals 1 cable(s) 1...4 mm ² (AWG 16...AWG 12) flexible with cable end Screw-clamp terminals 2 cable(s) 1...2.5 mm ² (AWG 16...AWG 14) flexible with cable end
Tightening torque	1.7 N.m - with screwdriver flat Ø 6 mm 1.7 N.m - with screwdriver Philips No 2
Width	45 mm
Height	116 mm
Depth	115 mm
Net weight	0.656 kg

Environment

Ambient air temperature for storage	-25...70 °C
Ambient air temperature for operation	-10...50 °C without derating 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 94 850 °C conforming to IEC 60695-2-1 650 °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 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 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

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	709.0 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	10.252 kg

Contractual warranty

Warranty	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

0bda50ae-711f-4024-bff6-ce0577049f63

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

Technical Illustration

Assembly's dimensions

