Product data sheet

Specifications

Green Premium™

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

TPRST009

Product availability: Stock - Normally stocked in distribution facility

Price*: 225.00 USD

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 phase motors 2 hp at 240 V AC 60 Hz for 3 phase motors 5 hp at 480 V AC 60 Hz for 3 phase motors 7.5 hp at 600 V AC 60 Hz for 3 phase motors
[Ue] Rated Operational Voltage	<= 690 V AC 47...63 Hz
[Ie] Rated Operational Current	9 A (at <122 °F (50 °C)) at <= 440 V AC-3 15 A (at <122 °F (50 °C)) at <= 440 V AC-1
[Ith] Conventional Free Air Thermal Current	15 A (at 122 °F (50 °C))
[Ui] Rated Insulation Voltage	690 V IEC 60947-4-1 600 V UL 60947-4-1 600 V CSA C22.2 No 60947-4-1
[Uimp] Rated Impulse Withstand Voltage	6 kV IEC 60947-1
Overvoltage Category	III
Thermal Protection Adjustment Range	0.18…9 A

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

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 104 °F (40 °C) - 1 s 105 A 104 °F (40 °C) - 10 s 61 A 104 °F (40 °C) - 1 min 30 A 104 °F (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-3 440 V 1.2 Mcycles 15 A AC-1 440 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 EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Protection Type	Thermal overload protection Motor overheat 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	for DS (device status) 1 LED (green/red) for LS (load status) 1 LED (green/red)
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 0.00…0.01 in² (1…4 mm²) AWG 16...AWG 12)rigid screw-clamp terminals 2 0.00…0.01 in² (1…4 mm²) AWG 16...AWG 12)rigid screw-clamp terminals 1 0.00…0.01 in² (1.5…4 mm²) AWG 16...AWG 12)flexible without cable end screw-clamp terminals 2 0.00…0.01 in² (1.5…4 mm²) AWG 16...AWG 12)flexible without cable end screw-clamp terminals 1 0.00…0.01 in² (1…4 mm²) AWG 16...AWG 12)flexible with cable end screw-clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) AWG 16...AWG 14)flexible with cable end
Tightening Torque	15.05 lbf.in (1.7 N.m) flat Ø 6 mm 15.05 lbf.in (1.7 N.m) Philips No 2
Width	1.77 in (45 mm)
Height	4.57 in (116 mm)
Depth	4.53 in (115 mm)
Net Weight	1.45 lb(US) (0.656 kg)

Environment

Ambient Air Temperature For Storage	-13…158 °F (-25…70 °C)
Ambient Air Temperature For Operation	14…122 °F (-10…50 °C) without derating 122…140 °F (50…60 °C) with current derating
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 1562 °F (850 °C) IEC 60695-2-1 1202 °F (650 °C) IEC 60695-2-12
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 1 gn 13…200 Hz) 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

Ordering and shipping details

Category	US10I1222352
Discount Schedule	0I12
Gtin	3606489832742
Returnability	Yes
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.97 in (5.0 cm)
Package 1 Width	4.92 in (12.5 cm)
Package 1 Length	5.12 in (13.0 cm)
Package 1 Weight	25.01 oz (709.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	14
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	22.60 lb(US) (10.252 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

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

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information