# **Product data sheet**

Specification





Motor starter, TeSys island, 30A at AC-1, 25A at AC-3, 11kW, 15hp, DOL type

TPRST025

Product availability: Stock - Normally stocked in distribution

Price\*: 285.00 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	5.5 kW at 230 V 50 Hz (AC-3) 11 kW at 380415 V 50 Hz (AC-3) 11 kW at 440 V 50 Hz (AC-3) 15 kW at 500 V 50 Hz (AC-3) 15 kW at 690 V 50 Hz (AC-3)
Motor Power Hp (UI / Csa)	2 hp at 120 V AC 60 Hz for 1 phase motors 3 hp at 240 V AC 60 Hz for 1 phase motors 7.5 hp at 208 V AC 60 Hz for 3 phase motors 7.5 hp at 240 V AC 60 Hz for 3 phase motors 15 hp at 480 V AC 60 Hz for 3 phase motors 20 hp at 600 V AC 60 Hz for 3 phase motors
[Ue] Rated Operational Voltage	<= 480 V AC 4763 Hz for overvoltage cat. III <= 690 V AC 4763 Hz for overvoltage cat. II
[le] Rated Operational Current	25 A (at <122 °F (50 °C)) at <= 440 V AC-3 30 A (at <122 °F (50 °C)) at <= 440 V AC-1
[Ith] Conventional Free Air Thermal Current	30 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 for Ue <= 480 V II for Ue <= 690 V

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

Thermal Protection Adjustment Range	0.525 A
Thermal Overload Class	Class 530
Reset	Remotely or automatically
Irms Rated Making Capacity	450 A at 440 V conforming to IEC 60947
Rated Breaking Capacity	450 A at 440 V conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	380 A 104 °F (40 °C) - 1 s 240 A 104 °F (40 °C) - 10 s 120 A 104 °F (40 °C) - 1 min 50 A 104 °F (40 °C) - 10 min
Average Impedance	2 mOhm - Ith 30 A 50 Hz
Power Dissipation Per Pole	1.25 W AC-3 - Ith 25 A 1.8 W AC-1 - Ith 30 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	6.6 W at le AC-3

### Complementary

Complementary	
Mechanical Durability	30 Mcycles
Electrical Durability	1.65 Mcycles 25 A AC-3 440 V
	2 Mcycles 30 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
	Rapid restart lockout
	Phase sequence
	Phase reversal
	Phase loss
	Phase unbalance
	Ground current
Monitoring Type	Time device ON
	Time device switch ON
	Number of faults
	Number of radits  Number of switching cycles
	Number of device power cycles
	Average current lavg
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	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

CCC UL CSA EAC	
Horizontal and vertical 35 mm symmetrical DIN rail)	
screw-clamp terminals 1 0.000.2 in² (1.510 mm²) AWG 16AWG 8)rigid screw-clamp terminals 2 0.000.02 in² (1.510 mm²) AWG 16AWG 8)rigid screw-clamp terminals 1 0.000.02 in² (2.510 mm²) AWG 14AWG 8)flexible without cable end screw-clamp terminals 2 0.000.02 in² (2.510 mm²) AWG 14AWG 8)flexible without cable end screw-clamp terminals 1 0.000.02 in² (1.510 mm²) AWG 16AWG 10)flexible with cable end screw-clamp terminals 2 0.000.01 in² (1.56 mm²) AWG 16AWG 10)flexible with cable end	
22.13 lbf.in (2.5 N.m) flat Ø 6 mm 22.13 lbf.in (2.5 N.m) Philips No 3	
1.77 in (45 mm)	
4.76 in (121 mm)	
4.53 in (115 mm)	
1.58 lb(US) (0.718 kg)	

#### **Environment**

Ambient Air Temperature For Storage	-13158 °F (-2570 °C)
Ambient Air Temperature For Operation	14122 °F (-1050 °C) without derating 122140 °F (5060 °C) with current derating
Relative Humidity	595 %
Operating Altitude	06561.68 ft (02000 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 313 Hz) IEC 60068-2-6 1 gn 13200 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	US10l1222352	
Discount Schedule	0112	
Gtin	3606489832759	
Returnability	Yes	
Country Of Origin	US	

### **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.18 in (3.000 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	5.12 in (13.000 cm)
Package 1 Weight	27.05 oz (767.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	14
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	24.20 lb(US) (10.975 kg)

### **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes
<b>②</b>	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