Product datasheet

Specification





Motor starter, TeSys island, 80A at AC-1, 65A at AC-3, 30kW, 40hp, DOL type

TPRST065

Main

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	18.5 kW at 230 V 50 Hz (AC-3) 30 kW at 380415 V 50 Hz (AC-3) 30 kW at 440 V 50 Hz (AC-3) 37 kW at 500 V 50 Hz (AC-3) 37 kW at 690 V 50 Hz (AC-3)
Motor Power Hp (UI / Csa)	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
[Ue] Rated Operational Voltage	<= 690 V AC 4763 Hz
[le] Rated Operational Current	65 A (at <50 °C) at <= 440 V AC-3 80 A (at <50 °C) at <= 440 V AC-1
[Ith] Conventional Free Air Thermal Current	80 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	3.3565 A
Thermal Overload Class	Class 530

Remotely or automatically
1000 A at 440 V conforming to IEC 60947
1000 A at 440 V conforming to IEC 60947
900 A 40 °C - 1 s 520 A 40 °C - 10 s 260 A 40 °C - 1 min 110 A 40 °C - 10 min
1.5 mOhm - Ith 80 A 50 Hz
6.3 W AC-3 - Ith 65 A 9.6 W AC-1 - Ith 80 A
24 V DC supplied by the bus coupler
80 mA contactor sealed 500 mA contactor closing
20.8 W at le AC-3

Complementary

Mechanical Durability	6 Mcycles
Electrical Durability	1.4 Mcycles 65 A AC-3 at Ue 440 V
	0.5 Mcycles 80 A AC-1 at Ue 440 V
Maximum Operating Rate	3600 cyc/mn AC-3
Operating Time	< 80 ms closing
	< 80 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 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
monto.iig type	Time device switch ON
	Number of faults
	Number of switching cycles
	Number of device power cycles
	Average current lavg
	Average voltage Vavg
	Max current Imax
	Max voltage Vmax
	Active and reactive power with voltage module
	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	CSA
	UL
	=-0
	EAC

Mounting Mode	Horizontal and vertical (35 mm symmetrical DIN rail)
Connections - Terminals	EverLink BTR screw connectors 1 cable(s) 135 mm² (AWG 16AWG 2) rigid EverLink BTR screw connectors 2 cable(s) 125 mm² (AWG 16AWG 4) rigid EverLink BTR screw connectors 1 cable(s) 135 mm² (AWG 16AWG 2) flexible without cable end EverLink BTR screw connectors 2 cable(s) 125 mm² (AWG 16AWG 4) flexible without cable end EverLink BTR screw connectors 1 cable(s) 135 mm² (AWG 16AWG 2) flexible with cable end EverLink BTR screw connectors 2 cable(s) 135 mm² (AWG 16AWG 4) flexible with cable end
Tightening Torque	5 N.m - cable 125 mm² hexagonal 4 mm 8 N.m - cable 2535 mm² hexagonal 4 mm
Width	55 mm
Height	167 mm
Depth	125 mm
Net Weight	1.248 kg

Environment

Ambient Air Temperature For Storage	-2570 °C
Ambient Air Temperature For Operation	-1050 °C without derating 5060 °C with current derating
Relative Humidity	595 %
Operating Altitude	02000 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= 313 Hz) conforming to IEC 60068-2-6 1 gn (f= 13200 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	6.5 cm
Package 1 Width	13.5 cm
Package 1 Length	17.5 cm
Package 1 Weight	1.32 kg
Unit Type Of Package 2	S02
Number Of Units In Package 2	8

Package 2 Height	15.0 cm	
Package 2 Width	30.0 cm	
Package 2 Length	40.0 cm	
Package 2 Weight	10.892 kg	

Contractual warranty

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



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