



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
Motor power kW	18.5 KW 230 V 50 Hz AC-3) 37 KW 380...415 V 50 Hz AC-3) 37 KW 440 V 50 Hz AC-3) 37 KW 500 V 50 Hz AC-3) 37 kW 690 V 50 Hz AC-3)
Motor power HP (UL / CSA)	5 Hp 120 V AC 60 Hz 1 phase 10 Hp 240 V AC 60 Hz 1 phase 20 Hp 208 V AC 60 Hz 3 phase 20 Hp 240 V AC 60 Hz 3 phase 40 Hp 480 V AC 60 Hz 3 phase 50 hp 600 V AC 60 Hz 3 phase
[Ue] rated operational voltage	<= 690 V AC 47...63 Hz
[Ie] rated operational current	66 A 122 °F (50 °C)) <= 440 V AC-3 80 A 122 °F (50 °C)) <= 440 V AC-1
[Ith] conventional free air thermal current	80 A 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	4...80 A
Thermal overload class	Class 5...30
Reset	Remotely or automatically
Irms rated making capacity	1000 A 440 V IEC 60947
Rated breaking capacity	1000 A 440 V IEC 60947
[Icw] rated short-time withstand current	900 A 104 °F (40 °C) - 1 s 520 A 104 °F (40 °C) - 10 s 260 A 104 °F (40 °C) - 1 min 110 A 104 °F (40 °C) - 10 min
Average impedance	1.5 mOhm - Ith 80 A 50 Hz
Power dissipation per pole	6.5 W AC-3 9.6 W AC-1
[Uc] control circuit voltage	24 V DC supplied by the bus coupler
Current consumption	80 mA contactor sealed 500 mA contactor closing
Power dissipation in W	21.4 W at Ie

Complementary

Mechanical durability	6 Mcycles
Electrical durability	0.75 Mcycles 66 A AC-3 440 V 0.5 Mcycles 80 A AC-1 440 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 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 loss Phase reversal 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	DS (device status) 1 LED green/red) 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	UL CSA CCC EAC
Mounting mode	Horizontal and vertical 35 mm symmetrical DIN rail)
Connections - terminals	EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²) AWG 16...AWG 2)rigid EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) AWG 16...AWG 4)rigid EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²) AWG 16...AWG 2)flexible without cable end EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) AWG 16...AWG 4)flexible without cable end EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²) AWG 16...AWG 2)flexible with cable end EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) AWG 16...AWG 4)flexible with cable end
Tightening torque	44.25 Lbf.in (5 N.m) 0.00...0.04 in ² (1...25 mm ²) hexagonal 0.16 in (4 mm) 70.81 lbf.in (8 N.m) 0.04...0.05 in ² (25...35 mm ²) hexagonal 0.16 in (4 mm)
Width	2.17 in (55 mm)
Height	6.57 in (167 mm)
Depth	4.92 in (125 mm)
Net weight	2.75 lb(US) (1.248 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)EN/IEC 61000-4-2) Radiated RF field immunity test, level 3 10 V/m)EN/IEC 61000-4-3) Fast transient immunity test, level 4 4 kV)EN/IEC 61000-4-4) Surge immunity test, level 3 2 kV)EN/IEC 61000-4-5) Surge immunity test, level 4 4 kV)EN/IEC 61000-4-5) Conducted RF disturbance immunity test 20 V)EN/IEC 61000-4-6)

Ordering and shipping details

Category	22352 - TESYS ISLAND LOAD CONTROLLERS
Discount Schedule	I12
Package weight(Lbs)	1.25 kg (2.75 lb(US))
Returnability	No

Offer Sustainability

REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Halogen content performance	Halogen free plastic parts product

Contractual warranty

Warranty	18 months
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