

# TPRST065

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





## 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) 30 KW 380...415 V 50 Hz AC-3) 30 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 at AC 60 Hz for 1 phase 10 Hp 240 V at AC 60 Hz for 1 phase 20 Hp 208 V at AC 60 Hz for 3 phase 20 Hp 240 V at AC 60 Hz for 3 phase 40 Hp 480 V at AC 60 Hz for 3 phase 50 hp 600 V at AC 60 Hz for 3 phase
[Ue] rated operational voltage	<= 690 V AC 47...63 Hz
[Ie] rated operational current	65 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	3.35...65 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	6.3 W AC-3 - Ith 65 A 9.6 W AC-1 - Ith 80 A
[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	20.8 W at Ie AC-3

## Complementary

Mechanical durability	6 Mcycles
Electrical durability	1.4 Mcycles 65 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 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	CSA UL EAC CCC
Mounting mode	Horizontal and vertical 35 mm symmetrical DIN rail)
Connections - terminals	EverLink BTR screw connectors 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) AWG 16...AWG 2)rigid EverLink BTR screw connectors 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) AWG 16...AWG 4)rigid EverLink BTR screw connectors 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) AWG 16...AWG 2)flexible without cable end EverLink BTR screw connectors 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) AWG 16...AWG 4)flexible without cable end EverLink BTR screw connectors 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) AWG 16...AWG 2)flexible with cable end EverLink BTR screw connectors 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) AWG 16...AWG 4)flexible with cable end
Tightening torque	44.25 Lbf.in (5 N.m) 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) hexagonal 0.16 in (4 mm) 70.81 lbf.in (8 N.m) 0.04...0.05 in <sup>2</sup> (25...35 mm <sup>2</sup> ) 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, 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	22352-TESYS ISLAND LOAD CONTROLLERS
Discount Schedule	I12
GTIN	3606489832773
Returnability	Yes

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.56 in (6.5 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	6.89 in (17.5 cm)
Package 1 Weight	2.91 lb(US) (1.32 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	8
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	24.01 lb(US) (10.892 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 <a href="#">Yes</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>

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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

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### Contractual warranty

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Warranty	18 months
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