

Product data sheet

Specifications



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

TPRST065

Product availability: Stock - Normally stocked in distribution facility

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 380...415 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 (UL / 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 phase motors 20 hp at 240 V AC 60 Hz for 3 phase motors 40 hp at 480 V AC 60 Hz for 3 phase motors 50 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	65 A (at <122 °F (50 °C)) at <= 440 V AC-3 80 A (at <122 °F (50 °C)) at <= 440 V AC-1
[Ith] conventional free air thermal current	80 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	3.35...65 A
Thermal overload class	Class 5...30
Reset	Remotely or automatically

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

Irms rated making capacity	1000 A at 440 V conforming to IEC 60947
Rated breaking capacity	1000 A at 440 V conforming to 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 - lth 80 A 50 Hz
Power dissipation per pole	6.3 W AC-3 - lth 65 A 9.6 W AC-1 - lth 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	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 EAC CCC
Mounting mode	Horizontal and vertical 35 mm symmetrical DIN rail)

Connections - terminals	EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) AWG 16...AWG 2)rigid EverLink BTR screw connectors 2 0.002...0.04 in² (1...25 mm²) AWG 16...AWG 4)rigid EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) AWG 16...AWG 2)flexible without cable end EverLink BTR screw connectors 2 0.002...0.04 in² (1...25 mm²) AWG 16...AWG 4)flexible without cable end EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) AWG 16...AWG 2)flexible with cable end EverLink BTR screw connectors 2 0.002...0.04 in² (1...25 mm²) AWG 16...AWG 4)flexible with cable end
Tightening torque	44.3 lbf.in (5 N.m) 0.002...0.04 in² (1...25 mm²) hexagonal 0.2 in (4 mm) 70.8 lbf.in (8 N.m) 0.04...0.05 in² (25...35 mm²) hexagonal 0.2 in (4 mm)
Width	2.2 in (55 mm)
Height	6.6 in (167 mm)
Depth	4.9 in (125 mm)
Product Weight	2.751 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	US10I1222352
Discount Schedule	0I12
GTIN	3606489832773
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	3.150 in (8.000 cm)
Package 1 Width	5.906 in (15.000 cm)
Package 1 Length	7.677 in (19.500 cm)
Package weight(Lbs)	2.985 lb(US) (1.354 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	24.937 lb(US) (11.311 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

SCIP Number

9d263b3f-2aca-4520-8069-dc29d672f647

EU RoHS Directive

[Compliant By Exemption](#)

REACH Regulation

[Reference contains Substances of Very High Concern above the threshold](#)

Halogen content performance

Halogen free plastic parts product

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

Circularity Profile

[End of Life Information](#)

Take-back

No

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Technical Illustration

Assembly's dimensions

