



### SIL motor starter, TeSys island, 15A at AC-1, 9A at AC-3, 4kW, 5hp, DOL type

TPRSS009

Product availability: Stock - Normally stocked in distribution

#### Main

<u> </u>	
Range	TeSys
Product name	TeSys island
Device short name	TPRSS
Product or Component Type	SIL 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 Safe stop function available when connected with a TPRSM module
Product compatibility	TPRBC bus coupler TPRVM voltage interface module TPRSM SIL interface module
Poles description	3P 3 NO
Utilisation category	AC-1 AC-2 AC-3 AC-4 AC-3e
Motor power kW	2.2 kW at 230 V 50 Hz (AC-3) 4 kW at 380415 V 50 Hz (AC-3) 4 kW at 440 V 50 Hz (AC-3) 5.5 kW at 500 V 50 Hz (AC-3) 5.5 kW at 690 V 50 Hz (AC-3)
motor power HP (UL / CSA)	0.33 hp at 120 V AC 60 Hz for 1 phase motors 1 hp at 240 V AC 60 Hz for 1 phase motors 2 hp at 208 V AC 60 Hz for 3 phase motors 2 hp at 240 V AC 60 Hz for 3 phase motors 5 hp at 480 V AC 60 Hz for 3 phase motors 7.5 hp at 600 V AC 60 Hz for 3 phase motors
[Ue] rated operational voltage	<= 690 V AC 4763 Hz
[le] rated operational current	9 A (at <122 °F (50 °C)) at <= 440 V AC-3 15 A (at <122 °F (50 °C)) at <= 440 V AC-1
[Ith] conventional free air thermal current	15 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	0.189 A
Thermal overload class	Class 530
Reset	Remotely or automatically
Irms rated making capacity	250 A at 440 V conforming to IEC 60947
Rated breaking capacity	250 A at 440 V conforming to IEC 60947
[lcw] rated short-time withstand current	210 A 104 °F (40 °C) - 1 s 105 A 104 °F (40 °C) - 10 s 61 A 104 °F (40 °C) - 1 min 30 A 104 °F (40 °C) - 10 min
Average impedance	2.5 mOhm - Ith 15 A 50 Hz
Power dissipation per pole	0.2 W AC-3 - Ith 9 A 0.56 W AC-1 - Ith 15 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	3.5 W at le AC-3

## Complementary

• • • • • • • • • •	
Mechanical durability	30 Mcycles
Electrical durability	2 Mcycles 9 A AC-3 440 V
	1.2 Mcycles 15 A AC-1 440 V
Maximum operating rate	3600 cyc/mn AC-3
Operating time	< 100 ms closing
	< 30 ms opening
Safety function	Safe stop: category 0 conforming to IEC 60204-1 when associated with a TPRSM
	module
	Safe stop: category 1 conforming to IEC 60204-1 when associated with a TPRSM
	module
Safety integrity level	SIL 2 conforming to IEC 61508 in single channel system architecture
	SILCL 2 conforming to IEC 62061 in single channel system architecture
	PL = d category 2 conforming to ISO 13849-1 in single channel system architecture
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 lavg
	Average voltage Vavg
	Max current Imax
	Max voltage Vmax Active and reactive power with voltage module
	verse and reactive homer with voltage module
	Active and reactive energy with voltage module

3 12)rigid
3 12)rigid
/G 12)flexible
/G 12)flexible
3 12)flexible
/G 14)flexible
_

#### **Environment**

-13158 °F (-2570 °C)
14122 °F (-1050 °C) without derating 122140 °F (5060 °C) with current derating
595 %
06561.68 ft (02000 m) without derating
IP20
2
TC
1760 °F (960 °C) UL 94 1562 °F (850 °C) IEC 60695-2-1 1202 °F (650 °C) IEC 60695-2-12
15 gn 11 ms) IEC 60068-2-27
1.5 mm peak to peak 313 Hz) IEC 60068-2-6 1 gn 13200 Hz) IEC 60068-2-6
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	0 12

GTIN	3606489832797
Returnability	Yes
Country of origin	MX

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.0 in (5 cm)
Package 1 Width	4.9 in (12.5 cm)
Package 1 Length	5.1 in (13 cm)
Package 1 Weight	25.1 oz (712 g)
Unit Type of Package 2	S02
Number of Units in Package 2	14
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	22.602 lb(US) (10.252 kg)

# **Contractual warranty**

Warranty 18 months

### Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

#### Well-being performance





Rohs Exemption Information

Yes

#### **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