Product data sheet
Characteristics

TPRPM038
Power interface module, TeSys island, 38 A, 18.5 kW, 20 hp

Product availability: Stock - Normally stocked in distribution facility

Main

Range of product	TeSys
Product name	TeSys island
Device short name	TPRPM
Product or component type	Power module
Device presentation	Power module connected to an automation controller through a bus coupler Operational only when connected to a bus coupler
Function available	Upstream voltage presence detection Electronic thermal overload protection Monitoring of currents Control of third party power devices when associated to TPRDG IO module
Product compatibility	TPRBC bus coupler TPRDG digital IO module TPRAN analog IO module
Poles description	3P
Motor power kW	9 KW 230 V AC 50 Hz 18.5 KW 380...415 V AC 50 Hz 18.5 KW 440 V AC 50 Hz 18.5 KW 500 V AC 50 Hz 18.5 kW 690 V AC 50 Hz
Motor power HP (UL / CSA)	2 Hp 120 V AC 60 Hz 1 phase 5 Hp 240 V AC 60 Hz 1 phase 10 Hp 208 V AC 60 Hz 3 phase 10 Hp 240 V AC 60 Hz 3 phase 20 Hp 480 V AC 60 Hz 3 phase 25 hp 600 V AC 60 Hz 3 phase
[Ue] rated operational voltage	<= 690 V AC 47...63 Hz
[Ie] rated operational current	38 A 122 °F (50 °C)) <= 440 V AC-3 40 A 122 °F (50 °C)) <= 440 V AC-1
[Ith] conventional free air thermal current	40 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
Overvoltage category	III
Thermal protection adjustment range	0.76…38 A
Thermal overload class	Class 5…30
Reset	Remotely or automatically
[Uc] control circuit voltage	24 V DC supplied by the bus coupler
Current consumption	60 mA
Power dissipation in W	0.9 W at Ie

Complementary

Protection type	Thermal overload protection Motor overheat Overcurrent Undercurrent Jam Long start Stall Rapid cycle lockout Phase loss Rapid restart lockout Phase reversal Phase sequence Phase unbalance Ground current
Monitoring type	Time device ON Number of faults Number of device power cycles Average current Iavg Average voltage Vavg Max current Imax Max voltage Vmax
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	EAC CCC CSA UL
Mounting mode	Horizontal and vertical 35 mm symmetrical DIN rail)
Connections - terminals	Screw-clamp terminals 1 0.00…0.02 in² (1.5…10 mm²) AWG 16...AWG 8)rigid Screw-clamp terminals 2 0.00…0.02 in² (1.5…10 mm²) AWG 16...AWG 8)rigid Screw-clamp terminals 1 0.00…0.02 in² (2.5…10 mm²) AWG 14...AWG 8)flexible without cable end Screw-clamp terminals 2 0.00…0.02 in² (2.5…10 mm²) AWG 14...AWG 8)flexible without cable end Screw-clamp terminals 1 0.00…0.02 in² (1.5…10 mm²) AWG 16...AWG 10)flexible with cable end Screw-clamp terminals 2 0.00…0.01 in² (1.5…6 mm²) AWG 16...AWG 10)flexible with cable end
Tightening torque	22.13 Lbf.In (2.5 N.m) flat Ø 6 mm 22.13 lbf.in (2.5 N.m) Philips No 3
Width	1.77 in (45 mm)
Height	4.76 in (121 mm)
Depth	4.53 in (115 mm)
Net weight	0.56 lb(US) (0.255 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
GTIN	03606489832858
Package weight(Lbs)	0.25 kg (0.56 lb(US))
Returnability	Yes

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