Product data sheet
Characteristics

LTMEV40FM
extension module LTME TeSys T - 100..240 V AC

Main

Range	TeSys
Product name	TeSys T
Device short name	LTME
Product or component type	Extension module
Device application	Equipment monitoring and control
Range compatibility	TeSys T LTMR motor controller
Supply	Via the controller

Complementary

[Ui] rated insulation voltage	690 V conforming to UL 508 690 V conforming to CSA C22.2 No 14 690 V conforming to EN/IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV for current or voltage measurement circuit conforming to EN/IEC 60947-4-1 4 kV for supply, inputs and outputs conforming to EN/IEC 60947-4-1
Logic input number	4
Input current	7.5 mA at 240 V 3.1 mA at 100 V
Input/Output type	Logic input : 79...264 V and <= 15 mA for 25 ms (at state 1) Logic input : 0...40 V for 25 ms (at state 0)
Maximum output switching frequency	2 Hz
Operating rate	1800 cyc/h
Contacts type and composition	Without
Metering type	Active power P, P1, P2, P3 Calculated active and reactive energy (+/- W.h, +/- VAR.h) Frequency Power factor Reactive power Q, Q1, Q2, Q3 Voltage U21, U32, U13, V1, V2, V3 Imbalance voltage
Measurement accuracy	5 % active and reactive power 3 % power factor (cos φ > 0.6) 1 % voltage (100...830 V)
Overvoltage category	III
Connection pitch	5.08 mm
Connections - terminals	Connector, 2 solid cable without cable end 0.2...1 mm² /AWG 24...AWG 14 for control circuit Connector, 2 flexible cable without cable end 0.5...1.5 mm² /AWG 24...AWG 14 for control circuit Connector, 2 flexible cable without cable end 0.2...1.5 mm² /AWG 24...AWG 14 for control circuit Connector, 2 flexible cable with cable end 0.2...1 mm² /AWG 24...AWG 14 for control circuit Connector, 1 solid cable without cable end 0.2...2.5 mm² /AWG 24...AWG 14 for control circuit Connector, 1 flexible cable without cable end 0.25...2.5 mm² /AWG 24...AWG 14 for control circuit Connector, 1 flexible cable without cable end 0.2...2.5 mm² /AWG 24...AWG 14 for control circuit Connector, 1 flexible cable with cable end 0.25...2.5 mm² /AWG 24...AWG 14 for control circuit
Tightening torque	0.5...0.6 N.m, 3 mm flat screwdriver for control circuit
Pollution degree	3

Electromagnetic compatibility	• surges common mode (2 kV) control circuit, conforming to EN/IEC 61000-4-5 • surges common mode (4 kV) voltage inputs, conforming to EN/IEC 61000-4-5 • surges serial mode (2 kV) voltage inputs, conforming to EN/IEC 61000-4-5 • surges common mode (2 kV) communication, conforming to EN/IEC 61000-4-5 • surges serial mode (1 kV) control circuit, conforming to EN/IEC 61000-4-5 • conducted RF disturbances (10 V), conforming to EN/IEC 61000-4-6 • fast transients immunity test on supply and relay outputs level 4 (4 kV), conforming to EN/IEC 61000-4-4 • fast transients immunity test other circuits level 3 (2 kV), conforming to EN/IEC 61000-4-4 • electrostatic discharge 3 (8 kV air, 6 kV contact), conforming to EN/IEC 61000-4-2
Width	45 mm
Height	61 mm
Depth	120.7 mm
Product weight	0.21 kg
Compatibility code	LTME

Environment

Standards	EN 60947-4-1 IACS E10 IEC 60947-4-1 UL 508 CSA C22.2 No 14
Product certifications	ABS ATEX BV CCC CSA C-Tick DNV GL KERI LROS (Lloyds register of shipping) NOM RINA RMRoS UL EAC
Protective treatment	TH conforming to EN/IEC 60068 48 h conforming to EN/IEC 60070-2-11 12 x 24 hour cycles conforming to EN/IEC 60068-2-30
Fire resistance	960 °C conforming to UL 94 650 °C conforming to EN/IEC 60695-2-12
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...80 °C
Operating altitude	<= 2000 m without derating
Mechanical robustness	• vibrations plate mounted (4 Gn, 5...300 Hz) conforming to EN/IEC 60068-2-6 • vibrations mounted on symmetrical rail (1 Gn, 5...300 Hz) conforming to EN/IEC 60068-2-6 • shocks half sine wave acceleration (15 Gn for 11 ms) conforming to EN/IEC 60068-2-27