Product datasheet
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	4 kV for supply, inputs and outputs conforming to EN/IEC 60947-4-1 6 kV for current or voltage measurement circuit conforming to EN/IEC 60947-4-1
Logic input number	4
Input current	3.1 mA at 100 V 7.5 mA at 240 V
Current state 0 guaranteed	Logic input : 0...40 V and 2...15 mA for 25 ms
Current state 1 guaranteed	Logic input : 79...264 V and <= 15 mA for 25 ms
Maximum operating 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	1 % voltage (100...830 V) 5 % active and reactive power 3 % power factor (cos φ > 0.6)
Overvoltage category	III
Connection pitch	5.08 mm
Connections - terminals	Connector, 1 flexible cable with 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 without cable end 0.25...2.5 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, 2 flexible cable with cable end 0.2...1 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 without cable end 0.5...1.5 mm² /AWG 24...AWG 14 for control circuit Connector, 2 solid cable without cable end 0.2...1 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	● electrostatic discharge 3 (8 kV air, 6 kV contact), conforming to EN/IEC 61000-4-2 ● fast transients immunity test other circuits level 3 (2 kV), conforming to EN/IEC 61000-4-4 ● fast transients immunity test on supply and relay outputs level 4 (4 kV), conforming

	to EN/IEC 61000-4-4 ● conducted RF disturbances (10 V), conforming to EN/IEC 61000-4-6 ● surges serial mode (1 kV) control circuit, conforming to EN/IEC 61000-4-5 ● surges common mode (2 kV) communication, conforming to EN/IEC 61000-4-5 ● surges serial mode (2 kV) voltage inputs, conforming to EN/IEC 61000-4-5 ● surges common mode (4 kV) voltage inputs, conforming to EN/IEC 61000-4-5 ● surges common mode (2 kV) control circuit, conforming to EN/IEC 61000-4-5
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
IP degree of protection	IP20
protective treatment	12 x 24 hour cycles conforming to EN/IEC 60068-2-30 48 h conforming to EN/IEC 60070-2-11 TH conforming to EN/IEC 60068
fire resistance	650 °C conforming to EN/IEC 60695-2-12 960 °C conforming to UL 94
ambient air temperature for operation	-20...60 °C
ambient air temperature for storage	-40...80 °C
operating altitude	<= 2000 m without derating
mechanical robustness	● shocks half sine wave acceleration (15 Gn for 11 ms) conforming to EN/IEC 60068-2-27 ● vibrations mounted on symmetrical rail (1 Gn, 5...300 Hz) conforming to EN/IEC 60068-2-6 ● vibrations plate mounted (4 Gn, 5...300 Hz) conforming to EN/IEC 60068-2-6