# LTMR100EBD

motor controller LTMR TeSys T - 24 V DC 100 A for Ethernet TCP/IP





#### Main

Range	TeSys
Product name	TeSys T
Device short name	LTMR
Product or component type	Motor controller
Device application	Equipment monitoring and control
Measurement current	5100 A
[Us] rated supply voltage	24 V DC
Current consumption	56127 mA
Supply voltage limits	20.426.24 V DC
Communication port protocol	Modbus TCP/EtherNet/IP
Bus type	Ethernet IEEE 802.3 interface, addressing 0159, transmission rate 10100 Mbit/s, RJ45 with 2 shielded twisted pairs

#### 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 0.8 kV for communication circuit conforming to EN/IEC 60947-4-1 0.8 kV for supply, inputs and outputs conforming to EN/IEC 60947-4-1
Short-circuit withstand	100 kA conforming to EN/IEC 60947-4-1
Associated fuse rating	0.5 A gG for control circuit 4 A gG for output
Protection type	Earth-leakage protection Phase failure Reverse polarity protection Thermal overload protection Thermal protection Overload Phase unbalance Locked rotor Overload (long time) Load fluctuation Power factor variation
Network and machine diagnosis type	Phase fault and earth fault trip counters Remaining operating time before overload tripping Running hours counter/operating time Starting current and time Waiting time after overload tripping Fault recording Event recording Trip context information Trip history information Motor control command recording
Logic input number	6
Input current	7 mA
Current state 0 guaranteed	Logic input: < 5 V and <= 15 mA for 5 ms
Current state 1 guaranteed	Logic input: < 15 V and 215 mA for 15 ms
Maximum operating frequency	2 Hz
Load current	5 A at 250 V AC for logic output 5 A at 30 V DC for logic output
Permissible power	480 VA (AC-15), le = 2 A, 500000 cycles (output) 30 W (DC-13), le = 1.25 A, 500000 cycles (output)

Operating rate	1800 cyc/h
Contacts type and composition	1 NO + 1 NC fault signal 3 NO
Metering type	Earth-fault current Phase current I1, I2, I3 RMS Temperature Average current lavg Imbalance current
Measurement accuracy	+/- 30 min/year internal clock 0,02 current 0,02 temperature 515 % earth fault current internal measurement (for current > 0.3 A) 1 % voltage (100830 V) 5 % active and reactive power 5 % earth fault current external measurement (< 5 % or 0.01 A) 3 % power factor (cos $\phi$ > 0.6)
Overvoltage category	III
Connection pitch	5.08 mm
Connections - terminals	Connector, 1 flexible cable with cable end 0.252.5 mm²/AWG 24AWG 14 for control circuit
	Connector, 1 flexible cable without cable end 0.22.5 mm²/AWG 24AWG 14 for control circuit  Connector, 1 flexible cable without cable end 0.252.5 mm²/AWG 24AWG 14 for control circuit
	Connector, 1 solid cable without cable end 0.22.5 mm² /AWG 24AWG 14 for control circuit  Connector, 2 flexible cable with cable end 0.21 mm² /AWG 24AWG 14 for control
	circuit  Connector, 2 flexible cable without cable end 0.21.5 mm² /AWG 24AWG 14 for control circuit  Connector, 2 flexible cable without cable end 0.51.5 mm² /AWG 24AWG 14 for control circuit
	control circuit  Connector, 2 solid cable without cable end 0.21 mm²/AWG 24AWG 14 for control circuit
Tightening torque	0.50.6 N.m, 3 mm flat screwdriver for control circuit
Pollution degree	3
Electromagnetic compatibility	<ul> <li>electrostatic discharge 3 (8 kV air, 6 kV contact), conforming to EN/IEC 61000-4-2</li> <li>fast transients immunity test other circuits level 3 (2 kV), conforming to EN/IEC 61000-4-4</li> <li>fast transients immunity test on supply and relay outputs level 4 (4 kV), conforming to EN/IEC 61000-4-4</li> <li>conducted RF disturbances (10 V), conforming to EN/IEC 61000-4-6</li> <li>surges common mode (1 kV) control circuit, conforming to EN/IEC 61000-4-5</li> <li>surges serial mode (1 kV) control circuit, conforming to EN/IEC 61000-4-5</li> <li>surges common mode (2 kV) communication, conforming to EN/IEC 61000-4-5</li> <li>radiated RF fields 3 (10 V/m), conforming to EN/IEC 61000-4-3</li> <li>voltage dips and interruptions immunity test (70 %, 500 ms), conforming to EN/IEC 61000-4-11</li> <li>surges serial mode (0.5 kV) temperature sensor, conforming to EN/IEC 61000-4-5</li> <li>surges common mode (1 kV) temperature sensor, conforming to EN/IEC 61000-4-5</li> <li>surges serial mode (2 kV) relay outputs and supply, conforming to EN/IEC 61000-4-5</li> <li>surges common mode (4 kV) relay outputs and supply, conforming to EN/IEC 61000-4-5</li> <li>surges common mode (4 kV) relay outputs and supply, conforming to EN/IEC 61000-4-5</li> </ul>
Width	91 mm
Height	61 mm
Depth	122.5 mm
Product weight	0.53 kg
Web services	Web server

### **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 Tiels
	C-Tick DNV
	GL
	KERI
	LROS (Lloyds register of shipping)
	NOM
	RINA RMRoS
	UL
	EAC
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	-2060 °C
ambient air temperature for storage	-4080 °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
	<ul> <li>vibrations mounted on symmetrical rail (1 Gn, 5300 Hz) conforming to EN/IEC 60068-2-6</li> </ul>
	• vibrations plate mounted (4 Gn, 5300 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP20

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0501 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

