Product data sheet
Characteristics

LTMR27CBD
motor controller LTMR TeSys T - 24 V DC 27 A for CANopen

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	1.35…27 A
[Us] rated supply voltage	24 V DC
Current consumption	56...127 mA
Supply voltage limits	20.4…26.24 V DC
Communication port protocol	CANopen
Bus type	CANopen ISO 1198 1...127 10...1000 kbit/s, SUB-D 9 4 twisted shielded pairs cable CANopen ISO 1198 1...127 10...1000 kbit/s, terminal block 4 twisted shielded pairs cable

Complementary

[Ui] rated insulation voltage	690 V EN/IEC 60947-1 690 V CSA C22.2 No 14 690 V UL 508
[Uimp] rated impulse withstand voltage	6 KV current or voltage measurement circuit EN/IEC 60947-4-1 0.8 KV communication circuit EN/IEC 60947-4-1 0.8 kV supply, inputs and outputs EN/IEC 60947-4-1
Short-circuit withstand	100 kA EN/IEC 60947-4-1
Associated fuse rating	4 A gG output 0.5 A gG control circuit
Protection type	Overload (long time) Thermal protection Load fluctuation Locked rotor Overload Thermal overload protection Power factor variation Phase unbalance Reverse polarity protection Earth-leakage protection Phase failure
Network and machine diagnosis type	Phase fault and earth fault trip counters Trip context information Waiting time after overload tripping Fault recording Remaining operating time before overload tripping Starting current and time Motor control command recording Event recording Running hours counter/operating time Trip history information
Logic input number	6
Input current	7 mA
Current state 0 guaranteed	Logic input < 5 V <= 15 mA 5 ms
Current state 1 guaranteed	Logic input < 15 V 2...15 mA 15 ms
Maximum output switching frequency	2 Hz
Load current	5 A 250 V AC logic output 5 A 30 V DC logic output

Permissible power	480 VA AC-15), Ie = 2 A, 500000 cycles output) 30 W DC-13), Ie = 1.25 A, 500000 cycles output)
Maximum operating rate	1800 cyc/h
Contacts type and composition	1 NO + 1 NC fault signal 3 NO
Metering type	Temperature Imbalance current Phase current I1, I2, I3 RMS Earth-fault current Average current Iavg
Measurement accuracy	5...15 % earth fault current internal measurement for current > 0.2 A) 1 % voltage 100...830 V) 3 % power factor cos φ > 0.6) 5 % earth fault current external measurement < 5 % or 0.01 A) +/- 30 min/year internal clock 0,02 temperature 1 % current 5 % active and reactive power
Overvoltage category	III
Connection pitch	0.20 in (5.08 mm)
Connections - terminals	Control circuit connector 1 0.00…0.00 in² (0.25…2.5 mm²) AWG 24...AWG 14)flexible with cable end Control circuit connector 1 0.00…0.00 in² (0.2…2.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.00…0.00 in² (0.25…2.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 1 0.00…0.00 in² (0.2…2.5 mm²) AWG 24...AWG 14)solid without cable end Control circuit connector 2 0.00…0.00 in² (0.2…1 mm²) AWG 24...AWG 14)flexible with cable end Control circuit connector 2 0.00…0.00 in² (0.2…1.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.00…0.00 in² (0.5…1.5 mm²) AWG 24...AWG 14)flexible without cable end Control circuit connector 2 0.00…0.00 in² (0.2…1 mm²) AWG 24...AWG 14)solid without cable end
Tightening torque	Control circuit 4.43…5.31 lbf.in (0.5…0.6 N.m) flat 0.12 in (3 mm)
Pollution degree	3
Electromagnetic compatibility	Electrostatic discharge, 3 8 kV air, 6 kV contact)EN/IEC 61000-4-2) Radiated RF fields, 3 10 V/m)EN/IEC 61000-4-3) Fast transients immunity test, level 3 2 kV)EN/IEC 61000-4-4) Fast transients immunity test, level 4 4 kV)EN/IEC 61000-4-4) Voltage dips and interruptions immunity test 70 %, 500 ms)EN/IEC 61000-4-11) Conducted RF disturbances 10 V)EN/IEC 61000-4-6) Surges 0.5 kV)EN/IEC 61000-4-5) Surges 1 kV)EN/IEC 61000-4-5) Surges 1 kV)EN/IEC 61000-4-5) Surges 1 kV)EN/IEC 61000-4-5) Surges 2 kV)EN/IEC 61000-4-5) Surges 2 kV)EN/IEC 61000-4-5) Surges 4 kV)EN/IEC 61000-4-5)
Width	3.58 in (91 mm)
Height	2.40 in (61 mm)
Depth	4.82 in (122.5 mm)
Net weight	1.17 lb(US) (0.53 kg)
Web services	Web server
Compatibility code	LTMR

Environment

Standards	CSA C22.2 No 14 IEC 60947-4-1 EN 60947-4-1 IACS E10 UL 508
Product certifications	CSA DNV RINA KERI NOM BV CCC EAC ATEX ABS LROS (Lloyds register of shipping) C-Tick GL UL RMRoS
Protective treatment	12 x 24 hour cycles EN/IEC 60068-2-30 48 h EN/IEC 60070-2-11 TH EN/IEC 60068
Fire resistance	1202 °F (650 °C) EN/IEC 60695-2-12 1760 °F (960 °C) UL 94
Ambient air temperature for operation	-4…140 °F (-20…60 °C)
Ambient air temperature for storage	-40…176 °F (-40…80 °C)
Operating altitude	<= 6561.68 ft (2000 m) without derating
Mechanical robustness	Vibrations mounted on symmetrical rail1 Gn, 5...300 Hz EN/IEC 60068-2-6 Vibrations plate mounted4 Gn, 5...300 Hz EN/IEC 60068-2-6 Shocks half sine wave acceleration15 Gn for 11 ms EN/IEC 60068-2-27
IP degree of protection	IP20

Ordering and shipping details

Category	22338 - SOLID STATE OVERLOAD RELAYS
Discount Schedule	I12
GTIN	00785901502296
Returnability	No
Country of origin	CN

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months