Product datasheet

Specifications

Green Premium™

Motor controller, TeSys T, Motor Management, DeviceNet, 6 logic inputs, 3 relay logic outputs, 5 to 100A, 24VDC

LTMR100DBD

To be discontinued

Discontinued on: 1 Aug 2023

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	5…100 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	DeviceNet
Bus Type	DeviceNet ISO 1198 interface, addressing 1...64, transmission rate 125...500 kbit/s, terminal block with 4 twisted shielded pairs cable

Complementary

[Ui] Rated Insulation Voltage	690 V conforming to EN/IEC 60947-1 690 V conforming to CSA C22.2 No 14 690 V conforming to UL 508
[Uimp] Rated Impulse Withstand Voltage	6 kV current or voltage measurement circuit conforming to EN/IEC 60947-4-1 0.8 kV communication circuit conforming to EN/IEC 60947-4-1 0.8 kV 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	4 A gG for output 0.5 A gG for control circuit
Protection Type	Earth-leakage protection Overload Reverse polarity protection Thermal protection Overload (long time) Load fluctuation Phase failure Thermal overload protection Power factor variation Locked rotor Phase unbalance

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Network And Machine Diagnosis Type	Running hours counter/operating time Starting current and time Trip context information Remaining operating time before overload tripping Fault recording Phase fault and earth fault trip counters Event recording Trip history information Waiting time after overload tripping 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 2...15 mA for 15 ms
Maximum Output Switching 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), 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 Average current Iavg Imbalance current Earth-fault current Phase current I1, I2, I3 RMS
Measurement Accuracy	5...15 % earth fault current internal measurement 1 % voltage (100...830 V) 3 % power factor 5 % earth fault current external measurement +/- 30 min/year internal clock 0,02 temperature 5 % active and reactive power 0,02 current
Overvoltage Category	III
Connection Pitch	5.08 mm
Connections - Terminals	Control circuit: connector 1 cable(s) 0.25…2.5 mm² (AWG 24...AWG 14) flexible with cable end Control circuit: connector 1 cable(s) 0.2…2.5 mm² (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.25…2.5 mm² (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.2…2.5 mm² (AWG 24...AWG 14) solid without cable end Control circuit: connector 2 cable(s) 0.2…1 mm² (AWG 24...AWG 14) flexible with cable end Control circuit: connector 2 cable(s) 0.2…1.5 mm² (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.5…1.5 mm² (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.2…1 mm² (AWG 24...AWG 14) solid without cable end
Tightening Torque	Control circuit: 0.5…0.6 N.m flat screwdriver 3 mm
Pollution Degree	3

Electromagnetic Compatibility	Electrostatic discharge, 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF fields, 3, 10 V/m, conforming to EN/IEC 61000-4-3 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 Voltage dips and interruptions immunity test, 70 %, 500 ms, conforming to EN/IEC 61000-4-11 Conducted RF disturbances, 10 V, conforming to EN/IEC 61000-4-6 Temperature sensor: surges (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5 Temperature sensor: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (serial mode), 1 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5 Communication: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (serial mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5
Width	91 mm
Height	61 mm
Depth	122.5 mm
Net Weight	0.53 kg
Web Services	Web server
Compatibility Code	LTMR

Environment

Standards	IEC 60947-4-1 CSA C22.2 No 14 EN 60947-4-1 IACS E10 UL 508
Product Certifications	RMRoS ABS NOM KERI RINA BV CCC C-Tick CSA EAC ATEX UL GL DNV LROS (Lloyds register of shipping)
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	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 Shocks half sine wave acceleration: 15 Gn for 11 ms conforming to EN/IEC 60068-2-27
Ip Degree Of Protection	IP20

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.0 cm
Package 1 Width	10.0 cm
Package 1 Length	13.5 cm
Package 1 Weight	510.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	10
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.467 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	
Halogen Free Plastic Parts Product	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information