Product data sheet
Characteristics

LTMTIN42BD
Expansion Module, TeSys Tera, Digital 4 Inputs 2 Outputs DC, 4 DI and 2 DO, Inputs 24VDC, for Motor Management



Main

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

Complementary

[Ui] rated insulation voltage	690 V conforming to EN/IEC 60947-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	0.8 KV current or voltage measurement circuit conforming to EN/IEC 60947-4-1 0.8 KV supply, inputs and outputs conforming to EN/IEC 60947-4-1
Protection type	Earth fault protection external Temperature protection Analog input protection DI interlock protection
Current state 0 guaranteed	Digital input: 0...12 V and 5 mA for 10 ms
Current state 1 guaranteed	Digital input: 18...30 V and 5 mA for 10 ms
Maximum operating frequency	2 Hz
Load current	10 A at 250 V AC/DC 5 A at 30 V DC
Short-circuit withstand	100 KA conforming to EN/IEC 60947-4-1
Maximum operating rate	1800 Cyc/H
Contacts type and composition	Without
Mounting mode	Flush-mounted
Connection pitch	5.0 Mm
Connections - terminals	Control circuit: connector 1 cable(s) 0.2…2.5 mm² (24 AWG...14 AWG) flexible stranded withou Control circuit: connector 2 cable(s) 0.2…1.5 mm² (24 AWG...16 AWG) flexible stranded withou Control circuit: connector 1 cable(s) 0.2…2.5 mm² (24 AWG...14 AWG) solid without cable end Control circuit: connector 2 cable(s) 0.2…1.0 mm² (24 AWG...18 AWG) solid without cable end Control circuit: connector 1 cable(s) 0.25…2.5 mm² (24 AWG...14 AWG) flexible stranded with Control circuit: connector 2 cable(s) 0.5…1.5 mm² (20 AWG...16 AWG) flexible stranded with c Control circuit: connector 1 cable(s) 0.25…2.5 mm² (24 AWG...14 AWG) flexible stranded with Control circuit: connector 2 cable(s) 0.2…1.0 mm² (24 AWG...18 AWG) flexible stranded with c
Input type	Digital input x4 inputs,
Output type	2 xdigital output
Permissible power	480 VA (AC-15), Ie = 2 A, 500000 cycles (output) 30 W (DC-13), Ie = 1.25 A, 500000 cycles (output)

Electromagnetic compatibility	Electrostatic discharge, level 3, 8 kV air, 4 kV contact Fast transient bursts, level 3, 2 kV Immunity to electromagnetic interference, level 3, 10 V/m Immunity to shock waves, level 3, 2 kV
Depth	120.7 Mm
Height	61 Mm
Width	45 Mm
Tightening torque	Control circuit: 0.5 N.m - with screwdriver flat 3 mm

Environment

Product certifications	IEC[RETURN]UL[RETURN]cUL
IP degree of protection	IP20
Standards	EN/IEC 60947-4-1 UL/CSA 60947-4-1
Fire resistance	650 °C conforming to EN/IEC 60695-2-12 960 °C conforming to UL 94
Protective treatment	12 x 24 hour cycles conforming to EN/IEC 60068-2-30
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
Ambient air temperature for operation	-20…70 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.302 Cm
Package 1 Width	9.906 Cm
Package 1 Length	12.700 Cm
Package 1 Weight	188 G
Unit Type of Package 2	CAR
Number of Units in Package 2	12
Package 2 Height	14.986 Cm
Package 2 Width	14.986 Cm
Package 2 Length	39.624 Cm
Package 2 Weight	1.928 Kg

Offer Sustainability

Recyclability potential, in %	1
Total lifecycle Carbon footprint	41 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	15.240055555555553
Carbon footprint of the manufacturing phase [A1 to A3]	15 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.03007633333333333
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.10379644444444444
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	25.631984585741808
Carbon footprint of the use phase [B2, B3, B4, B6]	26 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.39041222222222216
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	41
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes

SCIP Number	028013af-ee08-4e0c-8da5-e3657c39ba0a
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised