

LUCDT1BL

Advanced control unit, TeSys U, 0.35-1.05A,
3P motors, protection & diagnostic, class 20,
coil 24V DC



Main

Range	TeSys
Range of product	TeSys U
Device short name	LUCD
Product or Component Type	Advanced control unit
Device Application	Motor control Motor protection
Product Specific Application	Basic protection and advanced functions, communication
Main function available	Protection against phase failure and phase imbalance Manual reset Protection against overload and short-circuit Earth fault protection
Product compatibility	Power base LUTM
Network frequency	40...60 Hz
Load type	3-phase motor self-cooled
Utilisation category	AC-41 AC-44 AC-43
Rated motor current adjustment range	0.35...1.05 A
Thermal overload class	Class 20 40...60 Hz -13...158 °F (-25...70 °C) IEC 60947-6-2 Class 20 40...60 Hz -13...158 °F (-25...70 °C) UL 508
Tripping threshold	14.2 x Ir +/- 20 %
Phase failure sensitivity	Yes
[Uc] control circuit voltage	24 V DC

Complementary

Control circuit voltage limits	20...28 V DC 24 V in operation 14.5 V DC 24 V drop-out
Typical current consumption	130 mA 24 V DC I maximum while closing 60 mA 24 V DC I rms sealed
Heat dissipation	2 W control circuit
Operating time	35 ms opening control circuit 70 ms closing control circuit
Reset	Manual reset
Standards	EN 60947-6-2 IEC 60947-6-2 UL 508 CSA C22.2 No 14
Product Certifications	UL CSA
[Ui] rated insulation voltage	250 V IEC 60947-6-2 250 V UL 60947-4-1 250 V CSA C22.2 No 60947-4-1
[Uimp] rated impulse withstand voltage	4 kV IEC 60947-6-2
Fixing mode	Plug-in front face)
Width	1.77 in (45 mm)

Height	2.60 in (66 mm)
Depth	2.36 in (60 mm)
Compatibility code	LUCD

Environment

IP degree of protection	IP20 front panel and wired terminals IEC 60947-1 IP20 other faces IEC 60947-1 IP40 front panel outside connection zone IEC 60947-1
Protective treatment	TH IEC 60068
Ambient air temperature for operation	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Operating altitude	6561.68 ft (2000 m)
Fire resistance	1760 °F (960 °C) parts supporting live components IEC 60695-2-12 1202 °F (650 °C) IEC 60695-2-12
Shock resistance	10 gn power poles open IEC 60068-2-27 15 gn power poles closed IEC 60068-2-27
Vibration resistance	2 gn 5...300 Hz power poles open IEC 60068-2-6 4 gn 5...300 Hz power poles closed IEC 60068-2-6
Resistance to electrostatic discharge	8 kV 3 in open air IEC 61000-4-2 8 kV 4 on contact IEC 61000-4-2
Non-dissipating shock wave	1 kV serial mode IEC 60947-6-2 2 kV common mode IEC 60947-6-2
Resistance to radiated fields	9.14 V/m (10 V/m) 3 IEC 61000-4-3
Resistance to fast transients	2 kV 3 serial link IEC 61000-4-4 4 kV 4 all circuits except for serial link IEC 61000-4-4
Immunity to radioelectric fields	10 V IEC 61000-4-6
Immunity to microbreaks	3 ms
Immunity to voltage dips	70 % / 500 ms IEC 61000-4-11

Ordering and shipping details

Category	22398 - TESYS U - MULTI-FCTN CTRL MOD(LUCM)
Discount Schedule	I11
GTIN	3389110745450
Nbr. of units in pkg.	1
Package weight(Lbs)	4.73 oz (134 g)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.13 in (5.4 cm)
Package 1 width	3.15 in (8 cm)
Package 1 Length	3.94 in (10 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	23
Package 2 Weight	7.56 lb(US) (3.43 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

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.
PVC free	Yes
Halogen content performance	Halogen free plastic parts product

Mouser Electronics

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