

LUCBT1BL

Advanced control unit, TeSys U, 0.35-1.05A,
3P motors, protection & diagnostic, class 10,
coil 24V DC



Main

Range	TeSys
Range of product	TeSys U
Device short name	LUCB
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 Protection against overload and short-circuit Earth fault protection Manual reset
Product compatibility	Power base LUTM
Network frequency	40...60 Hz
Load type	3-phase motor - cooling: self-cooled
Utilisation category	AC-41 AC-44 AC-43
Rated motor current adjustment range	0.35...1.05 A
Thermal overload class	Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C conforming to IEC 60947-6-2 Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C conforming to UL 508
Tripping threshold	14.2 x I _r +/- 20 %
Phase failure sensitivity	Yes
[U _c] control circuit voltage	24 V DC

Complementary

Control circuit voltage limits	20...28 V for DC circuit 24 V in operation 14.5 V for DC circuit 24 V drop-out
Typical current consumption	130 mA at 24 V DC I maximum while closing 60 mA at 24 V DC I rms sealed
Heat dissipation	2 W for control circuit
Operating time	35 ms opening for control circuit 70 ms closing for 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
[U _i] rated insulation voltage	250 V conforming to IEC 60947-6-2 250 V conforming to UL 60947-4-1 250 V conforming to CSA C22.2 No 60947-4-1
[U _{imp}] rated impulse withstand voltage	4 kV IEC 60947-6-2
Fixing mode	Plug-in (front face)

Width	45 mm
Height	66 mm
Depth	60 mm
Compatibility code	LUCB

Environment

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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	136 g
Package 1 Height	5.5 cm
Package 1 width	8 cm
Package 1 Length	10 cm
Unit Type of Package 2	S02
Number of Units in Package 2	23
Package 2 Weight	3.554 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	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