

Advanced control unit, TeSys Ultra, 1.25A to 5A, 3P motors, protection & diagnostic, class 10, coil 24VDC

LUCB05BL

Product availability: Stock - Normally stocked in distribution facility

Main

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Range	TeSys	
Range of Product	TeSys Ultra	
product name	TeSys Ultra	
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 overload and short-circuit	
	Manual reset	
	Earth fault protection	
	Protection against phase failure and phase imbalance	
Product compatibility	Power base LUB12	
	Power base LUB32	
	Power base LUB38	
	Power base LUB120	
	Power base LUB320	
	Power base LUB380	
	Reversing contactor breaker LU2B12BL	
	Reversing contactor breaker LU2B32BL	
	Reversing contactor breaker LU2B38BL	
[Ue] rated operational voltage	690 V AC	
Network frequency	4060 Hz	
Load type	3-phase motor self-cooled	
Utilisation category	AC-44	
	AC-41	
	AC-43	
Motor power kW	1.5 kW 400440 V AC 50/60 Hz	
	2.2 kW 500 V AC 50/60 Hz	
	3 kW 690 V AC 50/60 Hz	
rated motor current adjustment range	1.255 A	
Thermal overload class	Class 10 4060 Hz -13158 °F (-2570 °C) IEC 60947-6-2	
	Class 10 4060 Hz -13158 °F (-2570 °C) UL 508	
Tripping threshold	14.2 x lr +/- 20 %	
Phase failure sensitivity	Yes	
[Uc] control circuit voltage	24 V DC	

Complementary

Control circuit voltage limits 20...27 V DC 24 V in operation 14.5 V DC 24 V drop-out

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Typical current consumption	130 mA 24 V DC I maximum while closing with LUB12 220 mA 24 V DC I maximum while closing with LUB32 220 mA 24 V DC I maximum while closing with LUB38 60 mA 24 V DC I rms sealed with LUB12 80 mA 24 V DC I rms sealed with LUB32 80 mA 24 V DC I rms sealed with LUB38	
Heat dissipation	2 W control circuit with LUB12 3 W control circuit with LUB32 3 W control circuit with LUB38	
Operating time	35 ms opening with LUB12 control circuit 35 ms opening with LUB32 control circuit 35 ms opening with LUB38 control circuit 70 ms closing with LUB12 control circuit 70 ms closing with LUB32 control circuit 70 ms closing with LUB38 control circuit	
Reset	Manual reset	
Standards	EN 60947-6-2 IEC 60947-6-2 UL 60947-4-1, with phase barrier CSA C22.2 No 60947-4-1, with phase barrier	
Product Certifications	CE UL CSA CCC EAC ASEFA ATEX Marine	
[Ui] rated insulation voltage	690 V IEC 60947-6-2 600 V UL 60947-4-1 600 V CSA C22.2 No 60947-4-1	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-6-2	
Safe separation of circuit	400 V SELV between the control and auxiliary circuits IEC 60947-1 400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1	
Fixing mode	Plug-in (front face)	
Width	1.8 in (45 mm)	
Height	2.6 in (66 mm)	
Depth	2.4 in (60 mm)	
Compatibility code	LUCB	
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	-13158 °F (-2570 °C)	
Ambient Air Temperature for Storage	-40185 °F (-4085 °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 5300 Hz power poles open IEC 60068-2-6 4 gn 5300 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	

Resistance to radiated fields	9.1 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	US10I1122397	
Discount Schedule	0111	
GTIN	3389110364088	
Returnability	Yes	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	1.97 in (5.000 cm)	
Package 1 Width	3.15 in (8.000 cm)	
Package 1 Length	3.54 in (9.000 cm)	
Package 1 Weight	3.986 oz (113.000 g)	
Unit Type of Package 2	S02	
Number of Units in Package 2	23	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	6.360 lb(US) (2.885 kg)	

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Environmental Disclosure

Product Environmental Profile

Use Better

Recycled metal content at CR level	0
EU RoHS Directive	Compliant with Exemptions
REACh Regulation	REACh Declaration
Halogen content performance	Halogen free plastic parts product
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.