Product data sheet Characteristics

LUCL12FU

Standard control unit, TeSys U, 3-12A, 3P motors, magnetic protection, coil 110-240V AC/DC





Main Range TeSys TeSys U Range of product TeSys U Product name LUCL Device short name Product or component Magnetic control unit type Device application Motor control Motor protection Product specific Protection of variable speed drive or soft startsoft application stop unit Main function available Manual reset Short-circuit protection Product compatibility Power base LUB12 Power base LUB32 Power base LUB38 Power base LUB120 Power base LUB320 Power base LUB380 Reversing contactor breaker LU2B12FU Reversing contactor breaker LU2B32FU Reversing contactor breaker LU2B38FU [Ue] rated operational 690 V AC voltage Network frequency 40...60 Hz Load type 3-phase motor - cooling: self-cooled Utilisation category AC-44 AC-41 AC-43 5.5 KW at 400...440 V AC 50/60 Hz Motor power kW 5.5 KW at 500 V AC 50/60 Hz 9 kW at 690 V AC 50/60 Hz Rated motor current 3...12 A adjustment range Tripping threshold 14.2 x Ir +/- 20 % [Uc] control circuit 110...240 V AC voltage 110...220 V DC

Complementary

Complementary	
Control circuit voltage limits	88264 V for AC circuit 110240 V in operation 88242 V for DC circuit 110220 V in operation 55 V for AC circuit 110240 V drop-out 55 V for DC circuit 110220 V drop-out
Typical current consumption	280 MA at 110240 V AC I maximum while closing with LUB12 280 MA at 110240 V AC I maximum while closing with LUB32 280 MA at 110220 V AC I maximum while closing with LUB38 280 MA at 110220 V DC I maximum while closing with LUB12 280 MA at 110220 V DC I maximum while closing with LUB32 280 MA at 110220 V DC I maximum while closing with LUB38 35 MA at 110240 V AC I rms sealed with LUB12 25 MA at 110240 V AC I rms sealed with LUB32 25 MA at 110240 V AC I rms sealed with LUB38 35 MA at 110240 V AC I rms sealed with LUB38 35 MA at 110220 V DC I rms sealed with LUB12 25 MA at 110220 V DC I rms sealed with LUB32 25 MA at 110220 V DC I rms sealed with LUB32 25 MA at 110220 V DC I rms sealed with LUB32
Heat dissipation	2 W for control circuit with LUB12 3 W for control circuit with LUB32 3 W for control circuit with LUB38
Operating time	35 ms opening with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 35 ms opening with LUB38 for control circuit 50 ms closing with LUB12 for control circuit 50 ms closing with LUB32 for control circuit 50 ms closing with LUB38 for control circuit
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 conforming to IEC 60947-6-2 600 V conforming to UL 60947-4-1 600 V conforming to CSA C22.2 No 60947-4-1
[Uimp] rated impulse withstand voltage	IEC 60947-6-2 6 kV
Safe separation of circuit	400 V SELV between the control and auxiliary circuits conforming to IEC 60947-1 400 V SELV between the control or auxiliary circuit and the main circuit conforming to IEC 60947-1
Fixing mode	Plug-in (front face)
Width	45 mm
Height	66 mm
Depth	60 mm
Net weight	0.135 kg
Compatibility code	LUCL

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	-2570 °C
Ambient air temperature for storage	-4085 °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, 5300 Hz, power poles open conforming to IEC 60068-2-6
	4 gn, 5300 Hz, power poles closed conforming to IEC 60068-2-6

Desistance to electrostatic discharge	9 KV lovel 2 in open six conforming to IEC 64000 4.2
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	132 g	
Package 1 Height	5.5 cm	
Package 1 width	8 cm	
Package 1 Length	10.2 cm	
Unit Type of Package 2	S02	
Number of Units in Package 2	23	
Package 2 Weight	3.485 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 EEU 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

Contractual warranty

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Warranty	18 months	