Product data sheet
Characteristics

LUCL12BL
Standard control unit, TeSys Ultra, 3P, 3 to 12A, 690VAC, magnetic protection, 24VDC coil



Main

Range	TeSys
Range of product	TeSys Ultra
Product name	TeSys Ultra
Device short name	LUCL
Product or component type	Magnetic control unit
Device application	Motor control Motor protection
Product specific application	Protection of variable speed drive or soft startsoft stop unit
Function available	Short-circuit protection Manual reset
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	40...60 Hz
Load type	3-phase motor - cooling: self-cooled
Utilisation category	AC-43 AC-41 AC-44
Motor power kW	5.5 KW at 400...440 V AC 50/60 Hz 5.5 KW at 500 V AC 50/60 Hz 9 KW at 690 V AC 50/60 Hz
Thermal protection adjustment range	3…12 A
Tripping threshold	14.2 x Ir +/- 20 %
[Uc] control circuit voltage	24 V DC

Complementary

Control circuit voltage limits	20...27 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 with LUB12 220 MA at 24 V DC I maximum while closing with LUB32 220 MA at 24 V DC I maximum while closing with LUB38 60 MA at 24 V DC I rms sealed with LUB12 80 MA at 24 V DC I rms sealed with LUB32 80 MA at 24 V DC I rms sealed with LUB38
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 70 ms closing with LUB12 for control circuit 70 ms closing with LUB32 for control circuit 70 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[RETURN]EAC[RETURN]ATEX
[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	6 KV conforming to IEC 60947-6-2
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-
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	-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 Height	5.400 Cm
Package 1 Width	10.200 Cm
Package 1 Length	8.000 Cm
Package 1 Weight	128.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	23
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	3.170 Kg

Offer Sustainability

Recyclability potential, in %	56
Total lifecycle Carbon footprint	12 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.1947135351162859
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.06838356635823767
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.009708208612935209
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	10.242554388924365
Carbon footprint of the use phase [B2, B3, B4, B6]	10 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.31296898800484324
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.

Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	12
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	801f74dc-0e56-49a3-aaeb-b34d99dcea36
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, which
Halogen-free status	Halogen free plastic parts product
PVC 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 and

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised