Specifications



Standard control unit, TeSys Ultra, 3P, 1.25 to 5A, 690VAC, thermal magnetic protection, class 10, 110 to 240VAC/DC coil

LUCA05FU

Main

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Range	TeSys	
Range of product	TeSys Ultra	
product name	TeSys Ultra	
Device short name	LUCA	
Product or component type	Standard control unit	
Device application	Motor control Motor protection	
Product specific application	Basic protection requirements for motor starters: overload and short-circuit	
main function available	Protection against phase failure and phase imbalance Protection against overload and short-circuit Manual reset Earth fault 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 voltage	690 V AC	
Network frequency	4060 Hz	
Load type	3-phase motor - cooling: self-cooled	
Utilisation category	AC-44 AC-41 AC-43	
Motor power kW	1.5 kW at 400440 V AC 50/60 Hz 2.2 kW at 500 V AC 50/60 Hz 3 kW at 690 V AC 50/60 Hz	
rated motor current adjustment range	1.255 A	
Thermal overload class	Class 10 - frequency limit: 4060 Hz - temperature compensation: -2570 °C conforming to IEC 60947-6-2 Class 10 - frequency limit: 4060 Hz - temperature compensation: -2570 °C conforming to UL 508	
Tripping threshold	14.2 x lr +/- 20 %	
Phase failure sensitivity	Yes	
[Uc] control circuit voltage	110240 V AC 110220 V DC	

Complementary

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

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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 110240 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 110240 V AC I rms sealed with LUB38 25 mA at 110220 V DC I rms sealed with LUB38 35 mA at 110220 V DC I rms sealed with LUB38 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 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	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 60947-1
Fixing mode	Plug-in (front face)
Width	45 mm
Height	66 mm
Depth	60 mm
Net weight	0.135 kg
Compatibility code	LUCA

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	
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	unity to radioelectric fields 10 V conforming to IEC 61000-4-6	
Immunity to microbreaks	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	5.000 cm
Package 1 Width	8.200 cm
Package 1 Length	9.000 cm
Package 1 Weight	115.000 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	2.954 kg

Contractual warranty

Warranty

18 months

Lenvironmental Data

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 \geq

ą	Environmental footprint	
	Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	19
	Environmental Disclosure	Product Environmental Profile

Use Better

ଔ Materials and Substances	
Recycled metal content at CR level	0
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	801f74dc-0e56-49a3-aaeb-b34d99dcea36
REACh Regulation	REACh Declaration
Halogen content performance	Halogen free plastic parts product
PVC free	Yes

Use Again

$^{\circlearrowright}$ 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	