Product datasheet

Specifications





Standard control unit, TeSys U, 1.25-5A, 3P motors, thermal magnetic protection, class 10, coil 24V AC

LUCA05B

Main

Mann	
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	Manual reset Protection against overload and short-circuit 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 LU2B12B Reversing contactor breaker LU2B32B
[Ue] Rated Operational Voltage	690 V AC
Network Frequency	4060 Hz
Load Type	3-phase motor - cooling: self-cooled
Utilisation Category	AC-43 AC-41 AC-44
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	24 V AC

Complementary

2026.5 V for AC circuit 24 V in operation
14.5 V for AC circuit 24 V drop-out
140 mA at 24 V AC I maximum while closing with LUB12
220 mA at 24 V AC I maximum while closing with LUB32
220 mA at 24 V AC I maximum while closing with LUB38
70 mA at 24 V AC I rms sealed with LUB12
90 mA at 24 V AC I rms sealed with LUB32
90 mA at 24 V AC I rms sealed with LUB38
2 W for control circuit with LUB12
3 W for control circuit with LUB32
3 W for control circuit with LUB38
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
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
CE
UL
CSA
CCC
EAC
ASEFA
ATEX
Marine
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
6 kV conforming to IEC 60947-6-2
400 V/ SELV between the central and cuvilians circuits conforming to JEC 60047.1
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
Plug-in (front face)
45 mm
66 mm
60 mm
0.135 kg

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	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	10.2 cm
Package 1 Width	5.5 cm
Package 1 Length	8.0 cm
Package 1 Weight	112.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	23
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.88 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free
Halogen Free Plastic Parts Product

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information