Product datasheet
Characteristics

LUCD05B

Main

Range	TeSys
Product name	TeSys U
Device short name	LUCD
Product or component type	Advanced control unit
Product specific application	Basic protection and advanced functions, communication
Product compatibility	LUFC00 LUFDA01 LUFDA10 LUFDH11 LUFN.. LUFV2 LUFW10
Utilisation category	AC-41 AC-43 AC-44
Motor power kW	3 kWat 690 V AC 50/60 Hz 1.5 kW at 400...440 V AC 50/60 Hz 2.2 kW at 500 V AC 50/60 Hz
Thermal protection adjustment range	1.25...5 A
[Uc] control circuit voltage	24 V AC
Thermal overload class	Class 20 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to IEC 60947-6-2 Class 20 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to UL 508

Complementary

Function available	Earth fault protection Manual reset Protection against overload and short-circuit Protection against phase failure and phase imbalance
Mounting mode	Plug-in
Mounting location	Front side
Control circuit voltage limits	20...26.5 V AC circuit 24 V in operation
Typical current consumption	140 mA at 24 V AC I maximum while closing with LUB12 220 mA at 24 V AC I maximum while closing with LUB32 70 mA at 24 V AC I rms sealed with LUB12 90 mA at 24 V AC I rms sealed with LUB32
Operating time	35 ms opening with LUB12 control circuit 35 ms opening with LUB32 control circuit 70 ms closing with LUB12 control circuit 70 ms closing with LUB32 control circuit
Load type	3-phase motor - cooling: self-cooled
Tripping threshold	14.2 x Ir +/- 20 %
[Ui] rated insulation voltage	600 V conforming to UL 508 690 V conforming to IEC 60947-1 600 V conforming to CSA C22.2 No 14
[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

Environment

heat dissipation	2 W control circuit with LUB12 3 W control circuit with LUB32
immunity to microbreaks	3 ms
immunity to voltage dips	70 % 500 ms conforming to IEC 61000-4-11
standards	EN 60947-6-2 IEC 60947-6-2 UL 508 type E with phase barrier CSA C22.2 No 14 type E
product certifications	ABS ASEFA ATEX BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) UL
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	-13...158 °F (-25...70 °C)
ambient air temperature for storage	-40...185 °F (-40...85 °C)
operating altitude	6561.68 ft (2000 m)
fire resistance	1202 °F (650 °C) conforming to IEC 60695-2-12 1760 °F (960 °C) parts supporting live components 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	9.14 V/yd (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

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1015 - Schneider Electric declaration of conformity	Compliant - since 1015 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov