Product data sheet Characteristics

LUCD18BL

advanced control unit LUCD - class 20 - 4.5...18 A - 24 V DC



Main Range of product TeSys U Device short name LUCD Product or component Advanced control unit type Product specific appli-Basic protection and advanced functions, communication ASILUFC5 Product compatibility ASILUFC51 LUFC00 LUFDA01 LUFDA10 LUFDH11 LUFN.. LUFV2 LUFW10 LULC031

| Utilisation category | AC-41 |
|----------------------|-------|
| | AC-43 |
| | AC-44 |
| | |

| Motor power kW | 15 kW at 690 V AC 50/60 Hz 9 kW at 500 V AC 50/60 Hz |
|----------------|---|
| | 7.5 kW at 400440 V AC 50/60 Hz |

4.5...18 A

LULC033 LULC07 LULC08 LULC09 LULC15

| justment range | | |
|----------------------------|---------|--|
| [Uc] control circuit volt- | 24 V DC | |
| age | | |

Thermal protection ad-

Overload tripping class

Class 20 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C - conforming to IEC

ture compensation: -25...70 °C - conforming to IEC 60947-6-2
Class 20 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C - conforming to UL 508

Complementary

| Complementary | |
|--------------------------------|--|
| Main 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 | 2027 V for DC circuit 24 V in operation |
| 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 60 mA at 24 V DC I rms sealed with LUB12 80 mA at 24 V DC I rms sealed with LUB32 |
| Operating time | 35 ms opening with LUB12 for control circuit 35 ms opening with LUB32 for control circuit 70 ms closing with LUB12 for control circuit 70 ms closing with LUB32 for control circuit |
| Load type | 3-phase motor - cooling: self-cooled |
| Tripping threshold | 14.2 x lr +/- 20 % |
| [Ui] rated insulation voltage | 600 V conforming to CSA 22-2 No 14 600 V conforming to UL 508 690 V conforming to IEC 60947-1 |

| [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 |
| Product weight | 0.140 kg |
| | |
| Environment | |
| Heat dissipation | 3 W for control circuit with LUB32 |
| Immunity to microbreaks | 3 ms |
| Immunity to voltage dips | 70 % 500 ms conforming to IEC 61000-4-11 |
| Standards | CSA C22-2 No 14 type E |
| | EN 60947-6-2 |
| | IEC 60947-6-2 UL 508 type E with phase barrier |
| Product certifications | ABS |
| Troduct continuations | ASEFA |
| | ATEX |
| | BV |
| | 000 |
| | CSA DNV (Det Norske Veritas) |
| | 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 | -2560 °C with LUCM |
| | -2570 °C with LUCA, LUCB, LUCC, LUCD |
| Ambient air temperature for storage | -4085 °C |
| Operating altitude | 2000 m |
| Fire resistance | 650 °C conforming to IEC 60695-2-12 960 °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 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 |
| 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 |
| | |



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