



## Main

|                                     |                                                                                                                                                                                                                       |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                    | TeSys U                                                                                                                                                                                                               |
| Device short name                   | LUCB                                                                                                                                                                                                                  |
| Product or component type           | Advanced control unit                                                                                                                                                                                                 |
| Product specific application        | Basic protection and advanced functions, communication                                                                                                                                                                |
| Product compatibility               | ASILUFC5<br>ASILUFC51<br>LUF00<br>LUFDA01<br>LUFDA10<br>LUFDH11<br>LUFN..<br>LUFV2<br>LUFW10<br>LULC031<br>LULC033<br>LULC07<br>LULC08<br>LULC09<br>LULC15                                                            |
| Utilisation category                | AC-41<br>AC-43<br>AC-44                                                                                                                                                                                               |
| Motor power kW                      | 0.09 kW at 400...440 V AC 50/60 Hz                                                                                                                                                                                    |
| Thermal protection adjustment range | 0.15...0.6 A                                                                                                                                                                                                          |
| [Uc] control circuit voltage        | 24 V DC                                                                                                                                                                                                               |
| Overload tripping class             | Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C - conforming to IEC 60947-6-2<br>Class 10 - frequency limit: 40...60 Hz - temperature compensation: -25...70 °C - conforming to UL 508 |

## Complementary

|                                        |                                                                                                                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main function available                | Earth fault protection<br>Manual reset<br>Protection against overload and short-circuit<br>Protection against phase failure and phase imbalance                                                      |
| Mounting mode                          | Plug-in                                                                                                                                                                                              |
| Mounting location                      | Front side                                                                                                                                                                                           |
| Control circuit voltage limits         | 20...27 V for DC circuit 24 V in operation                                                                                                                                                           |
| Typical current consumption            | 130 mA at 24 V DC I maximum while closing with LUB12<br>220 mA at 24 V DC I maximum while closing with LUB32<br>60 mA at 24 V DC I rms sealed with LUB12<br>80 mA at 24 V DC I rms sealed with LUB32 |
| Operating time                         | 35 ms opening with LUB12 for control circuit<br>35 ms opening with LUB32 for control circuit<br>70 ms closing with LUB12 for control circuit<br>70 ms closing with LUB32 for 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 CSA 22-2 No 14<br>600 V conforming to UL 508<br>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<br>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                      | 2 W for control circuit with LUB12<br>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<br>EN 60947-6-2<br>IEC 60947-6-2<br>UL 508 type E with phase barrier                                                                                        |
| Product certifications                | ABS<br>ASEFA<br>ATEX<br>BV<br>CCC<br>CSA<br>DNV (Det Norske Veritas)<br>GL<br>GOST<br>LROS (Lloyds register of shipping)<br>UL                                                     |
| IP degree of protection               | IP20 front panel and wired terminals conforming to IEC 60947-1<br>IP20 other faces conforming to IEC 60947-1<br>IP40 front panel outside connection zone conforming to IEC 60947-1 |
| Protective treatment                  | TH conforming to IEC 60068                                                                                                                                                         |
| Ambient air temperature for operation | -25...60 °C with LUCM<br>-25...70 °C with LUCA, LUCB, LUCC, LUCD                                                                                                                   |
| Ambient air temperature for storage   | -40...85 °C                                                                                                                                                                        |
| Operating altitude                    | 2000 m                                                                                                                                                                             |
| Fire resistance                       | 650 °C conforming to IEC 60695-2-12<br>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<br>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<br>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<br>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<br>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                                                                                                                                                   |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schneider Electric:](#)

[LUCBX6BL](#)