

# LUCB18FU

advanced control unit LUCB - class 10 -  
4.5...18 A - 110...220 V DC/AC



Product availability: Stock - Normally stocked in distribution facility



## Main

|                                     |   |
|-------------------------------------|---|
| Range                               | TeSys   |
| Product name                        | TeSys U   |
| Device short name                   | LUCB  |
| Product or component type           | Advanced control unit   |
| Product specific application        | Basic protection and advanced functions, communication  |
| Product compatibility               | LUFDA10<br>LUFDH11<br>LUFV2<br>LUFN..<br>LUFCA00<br>LUFW10<br>LUFDA01   |
| Utilisation category                | AC-43<br>AC-44<br>AC-41   |
| Motor power kW                      | 15 kW 690 V AC 50/60 Hz<br>9 kW 500 V AC 50/60 Hz<br>7.5 kW 400...440 V AC 50/60 Hz                                   |
| Thermal protection adjustment range | 4.5...18 A  |
| [Uc] control circuit voltage        | 110...220 V DC<br>110...240 V AC  |
| Thermal overload class              | Class 10 40...60 Hz -13...158 °F (-25...70 °C) IEC 60947-6-2<br>Class 10 40...60 Hz -13...158 °F (-25...70 °C) UL 508 |

## Complementary

|                                |  |
|--------------------------------|--|
| Main function available        | Protection against phase failure and phase imbalance<br>Manual reset<br>Earth fault protection<br>Protection against overload and short-circuit  |
| Mounting mode                  | Plug-in  |
| Mounting location              | Front side   |
| Control circuit voltage limits | 88...242 V DC 110...220 V in operation<br>88...264 V AC 110...240 V in operation   |
| Typical current consumption    | 25 mA 110...240 V AC I rms sealed with LUB12<br>25 mA 110...240 V AC I rms sealed with LUB32<br>280 mA 110...220 V DC I maximum while closing with LUB12<br>280 mA 110...220 V DC I maximum while closing with LUB32<br>280 mA 110...240 V AC I maximum while closing with LUB12<br>280 mA 110...240 V AC I maximum while closing with LUB32<br>35 mA 110...220 V DC I rms sealed with LUB12<br>35 mA 110...220 V DC I rms sealed with LUB32 |
| Operating time                 | 35 ms opening with LUB12 control circuit<br>35 ms opening with LUB32 control circuit<br>50 ms closing with LUB12 control circuit<br>50 ms closing with LUB32 control circuit   |
| Load type                      | 3-phase motor self-cooled  |
| Tripping threshold             | 14.2 x I <sub>r</sub> +/- 20 %   |
| [Ui] rated insulation voltage  | 600 V UL 508<br>690 V IEC 60947-1<br>600 V CSA C22.2 No 14   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|  |   |
|--|---|
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947-6-2  |
| Safe separation of circuit             | 400 V SELV between the control and auxiliary circuits IEC 60947-1<br>400 V SELV between the control or auxiliary circuit and the main circuit IEC 60947-1 |





## Environment

|                                       |  |
|---------------------------------------|--|
| Heat dissipation                      | 3 W control circuit with LUB32   |
| Immunity to microbreaks               | 3 ms   |
| Immunity to voltage dips              | 70 % / 500 ms IEC 61000-4-11   |
| Standards                             | UL 508 type E, with phase barrier<br>EN 60947-6-2<br>IEC 60947-6-2<br>CSA C22.2 No 14 type E   |
| Product certifications                | UL<br>GL<br>BV<br>DNV<br>ABS<br>CSA<br>CCC<br>ATEX<br>ASEFA<br>GOST<br>LROS (Lloyds register of shipping)                                |
| IP degree of protection               | IP20 front panel and wired terminals IEC 60947-1<br>IP20 other faces IEC 60947-1<br>IP40 front panel outside connection zone IEC 60947-1 |
| Protective treatment                  | TH 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                       | 1760 °F (960 °C) parts supporting live components IEC 60695-2-12<br>1202 °F (650 °C) IEC 60695-2-12                                      |
| Shock resistance                      | 10 gn power poles open IEC 60068-2-27<br>15 gn power poles closed IEC 60068-2-27   |
| Vibration resistance                  | 2 gn 5...300 Hz power poles open IEC 60068-2-6<br>4 gn 5...300 Hz power poles closed IEC 60068-2-6                                       |
| Resistance to electrostatic discharge | 8 KV 3 in open air IEC 61000-4-2<br>8 kV 4 on contact IEC 61000-4-2  |
| Non-dissipating shock wave            | 1 KV serial mode IEC 60947-6-2<br>2 kV common mode IEC 60947-6-2   |
| Resistance to radiated fields         | 9.14 V/m (10 V/m) 3 IEC 61000-4-3  |
| Resistance to fast transients         | 2 KV 3 serial link IEC 61000-4-4<br>4 kV 4 all circuits except for serial link IEC 61000-4-4   |
| Immunity to radioelectric fields      | 10 V IEC 61000-4-6   |

## Ordering and shipping details

|                     |  |
|---------------------|--|
| Category            | 22397 - TESYS U - CNTRL MOD(LUCA,LUCD) |
| Discount Schedule   | I11                                    |
| GTIN                | 00785901222279                         |
| Package weight(Lbs) | 0.15 kg (0.32 lb(US))                  |
| Returnability       | Yes                                    |
| Country of origin   | FR                                     |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information |  Yes   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |

---

|                          |  |
|--------------------------|--|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile      | <a href="#">End Of Life Information</a>  |
| WEEE                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

---

### Contractual warranty

---

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

---