

# 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               | LUFN..<br>LUFDH11<br>LUFDA10<br>LUFCA00<br>LUFV2<br>LUFW10<br>LUFDA01                                                                                                                                                                               |
| Utilisation category                | AC-43<br>AC-44<br>AC-41                                                                                                                                                                                                                             |
| Motor power kW                      | 15 kW at 690 V AC 50/60 Hz<br>9 kW at 500 V AC 50/60 Hz<br>7.5 kW at 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 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to IEC 60947-6-2<br>Class 10 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to UL 508 |

## Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main function available        | Protection against phase failure and phase imbalance<br>Earth fault protection<br>Manual reset<br>Protection against overload and short-circuit                                                                                                                                                                                                                                                                                                                      |
| Mounting mode                  | Plug-in                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mounting location              | Front side                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Control circuit voltage limits | 88...242 V DC circuit 110...220 V in operation<br>88...264 V AC circuit 110...240 V in operation                                                                                                                                                                                                                                                                                                                                                                     |
| Typical current consumption    | 25 mA at 110...240 V AC I rms sealed with LUB12<br>25 mA at 110...240 V AC I rms sealed with LUB32<br>280 mA at 110...220 V DC I maximum while closing with LUB12<br>280 mA at 110...220 V DC I maximum while closing with LUB32<br>280 mA at 110...240 V AC I maximum while closing with LUB12<br>280 mA at 110...240 V AC I maximum while closing with LUB32<br>35 mA at 110...220 V DC I rms sealed with LUB12<br>35 mA at 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 - cooling: self-cooled                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Tripping threshold             | 14.2 x Ir +/- 20 %                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                        |                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage          | 600 V conforming to CSA C22.2 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 |

## Environment

|                                       |                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Heat dissipation                      | 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                             | 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                | UL<br>ABS<br>ATEX<br>DNV<br>GL<br>CSA<br>ASEFA<br>BV<br>LROS (Lloyds register of shipping)<br>CCC<br>GOST                                                                          |
| 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 | -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<br>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<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                                                                        |
| Non-dissipating shock wave            | 1 kV serial mode conforming to IEC 60947-6-2<br>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<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                                                                                                                                                   |

## Ordering and shipping details

|                       |                                        |
|-----------------------|----------------------------------------|
| Category              | 22397 - TESYS U - CNTRL MOD(LUCA,LUCD) |
| Discount Schedule     | I11                                    |
| GTIN                  | 00785901222279                         |
| Nbr. of units in pkg. | 1                                      |
| Package weight(Lbs)   | 0.32000000000000001                    |
| Returnability         | Y                                      |
| Country of origin     | FR                                     |

## Offer Sustainability

|                                  |                                                                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                                                                                                  |
| RoHS (date code: YYWW)           | Compliant - since 1015 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                                                                                                                                                      |
| Product environmental profile    | Available                                                                                                                                                                                              |
| Product end of life instructions | Available                                                                                                                                                                                              |
| California proposition 65        | WARNING: This product can expose you to chemicals including:                                                                                                                                           |
| - - - - - Substance 1            | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.                                                                       |
| - - - - - More information       | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                                                                                          |

## Contractual warranty

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

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