

# LUCBT1BL

Advanced control unit, TeSys U, 0.35-1.05A,  
3P motors, protection & diagnostic, class 10,  
coil 24V DC



## Main

|                                      |                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                | TeSys                                                                                                                                           |
| Range of product                     | TeSys U                                                                                                                                         |
| Device short name                    | LUCB                                                                                                                                            |
| Product or Component Type            | Advanced control unit                                                                                                                           |
| Device Application                   | Motor control<br>Motor protection                                                                                                               |
| Product Specific Application         | Basic protection and advanced functions, communication                                                                                          |
| Main function available              | Protection against phase failure and phase imbalance<br>Protection against overload and short-circuit<br>Earth fault protection<br>Manual reset |
| Product compatibility                | Power base LUTM                                                                                                                                 |
| Network frequency                    | 40...60 Hz                                                                                                                                      |
| Load type                            | 3-phase motor self-cooled                                                                                                                       |
| Utilisation category                 | AC-41<br>AC-44<br>AC-43                                                                                                                         |
| Rated motor current adjustment range | 0.35...1.05 A                                                                                                                                   |
| 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                           |
| Tripping threshold                   | 14.2 x Ir +/- 20 %                                                                                                                              |
| Phase failure sensitivity            | Yes                                                                                                                                             |
| [Uc] control circuit voltage         | 24 V DC                                                                                                                                         |

## Complementary

|                                        |                                                                           |
|----------------------------------------|---------------------------------------------------------------------------|
| Control circuit voltage limits         | 20...28 V DC 24 V in operation<br>14.5 V DC 24 V drop-out                 |
| Typical current consumption            | 130 mA 24 V DC I maximum while closing<br>60 mA 24 V DC I rms sealed      |
| Heat dissipation                       | 2 W control circuit                                                       |
| Operating time                         | 35 ms opening control circuit<br>70 ms closing control circuit            |
| Reset                                  | Manual reset                                                              |
| Standards                              | EN 60947-6-2<br>IEC 60947-6-2<br>UL 508<br>CSA C22.2 No 14                |
| Product Certifications                 | UL<br>CSA                                                                 |
| [Ui] rated insulation voltage          | 250 V IEC 60947-6-2<br>250 V UL 60947-4-1<br>250 V CSA C22.2 No 60947-4-1 |
| [Uimp] rated impulse withstand voltage | 4 kV IEC 60947-6-2                                                        |
| Fixing mode                            | Plug-in front face)                                                       |
| Width                                  | 1.77 in (45 mm)                                                           |

|                    |                 |
|--------------------|-----------------|
| Height             | 2.60 in (66 mm) |
| Depth              | 2.36 in (60 mm) |
| Compatibility code | LUCB            |

## Environment

|                                       |                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                       |
| Immunity to microbreaks               | 3 ms                                                                                                                                     |
| Immunity to voltage dips              | 70 % / 500 ms IEC 61000-4-11                                                                                                             |

## Ordering and shipping details

|                       |                                             |
|-----------------------|---------------------------------------------|
| Category              | 22398 - TESYS U - MULTI-FCTN CTRL MOD(LUCM) |
| Discount Schedule     | I11                                         |
| GTIN                  | 3389110745443                               |
| Nbr. of units in pkg. | 1                                           |
| Package weight(Lbs)   | 4.80 oz (136 g)                             |
| Returnability         | No                                          |
| Country of origin     | FR                                          |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 2.17 in (5.5 cm)       |
| Package 1 width              | 3.15 in (8 cm)         |
| Package 1 Length             | 3.94 in (10 cm)        |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 23                     |
| Package 2 Weight             | 7.84 lb(US) (3.554 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 11.81 in (30 cm)       |
| Package 2 Length             | 15.75 in (40 cm)       |

## 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 |  <a href="#">Yes</a>                           |

|                             |                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 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.    |
| PVC free                    | Yes                                                                                                                             |
| Halogen content performance | Halogen free plastic parts product                                                                                              |