

## LUCA05B

standardna kontrolna jedinica LUCA – klasa 10 –  
1,25...5 A – 24 V AC



### Glavno

|                                     |  |
|-------------------------------------|--|
| Range                               | TeSys  |
| Product name                        | TeSys U  |
| Device short name                   | LUCA   |
| Product or component type           | Standard control unit  |
| Product specific application        | Basic protection requirements for motor starters:<br>overload and short-circuit  |
| Product compatibility               | LUFC00<br>LUFN..   |
| Utilisation category                | AC-41<br>AC-43<br>AC-44  |
| Motor power kW                      | 3 kW at 690 V AC 50/60 Hz<br>1.5 kW at 400...440 V AC 50/60 Hz<br>2.2 kW at 500 V AC 50/60 Hz  |
| Thermal protection adjustment range | 1.25...5 A   |
| [Uc] control circuit voltage        | 24 V AC  |
| Thermal overload class              | Class 10 - frequency limit: 40...60 Hz -<br>temperature compensation: -25...70 °C -<br>conforming to IEC 60947-6-2<br>Class 10 - frequency limit: 40...60 Hz -<br>temperature compensation: -25...70 °C -<br>conforming to UL 508<br>Class 20 - frequency limit: 40...60 Hz -<br>temperature compensation: -25...70 °C -<br>conforming to IEC 60947-6-2<br>Class 20 - frequency limit: 40...60 Hz -<br>temperature compensation: -25...70 °C -<br>conforming to UL 508 |

### Komplementarno

|  |  |
|--|--|
| 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...26.5 V for AC circuit 24 V in operation   |
| Typical current consumption            | 140 mA at 24 V AC I maximum while closing with LUB12<br>220 mA at 24 V AC I maximum while closing with LUB32<br>70 mA at 24 V AC I rms sealed with LUB12<br>90 mA at 24 V AC 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 I <sub>r</sub> +/- 20 %   |
| [Ui] rated insulation voltage          | 600 V conforming to UL 508<br>690 V conforming to IEC 60947-1<br>600 V conforming to CSA C22.2 No 14   |
| [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                            |

Informacije dane u ovoj dokumentaciji sadrže opće opise i/ili tehničke karakteristike o performansama ovdje sadržanih proizvoda.  
Ova dokumentacija nije namijenjena kao zamjena za niti bi se trebala koristiti za određivanje prikladnosti ili pouzdanosti predmetnih proizvoda za konkretne korisničke primjene.  
Svaki takav korisnik ili integrator dužan je provesti odgovarajuću i potpunu analizu rizika, procjenu i ispitivanje proizvoda u odnosu na odgovarajuću specifičnu primjenu ili uporabu istog.  
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|                |          |
|----------------|----------|
| Product weight | 0.135 kg |
|----------------|----------|

## Okolina

|                                       |  |
|---------------------------------------|--|
| heat dissipation                      | 2 Wfor control circuit with LUB12<br>3 Wfor control circuit with LUB32   |
| immunity to microbreaks               | 3 ms   |
| immunity to voltage dips              | 70 % 500 ms conforming to IEC 61000-4-11   |
| standards                             | EN 60947-6-2<br>IEC 60947-6-2<br>UL 508 type E with phase barrier<br>CSA C22.2 No 14 type E  |
| product certifications                | ABS<br>ASEFA<br>ATEX<br>BV<br>CCC<br>CSA<br>DNV<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...70 °C  |
| 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  |
| 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         | 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   |

## Offer Sustainability

|   |   |
|---|---|
| Green Premium product   | Green Premium product   |
| Compliant - since 1015 - Schneider Electric declaration of conformity | Compliant - since 1015 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold                     | Reference not containing SVHC above the threshold                     |
| Available   | Available   |
| Available   | Available   |

## Contractual warranty

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