



## Main

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| 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: overload and short-circuit                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product compatibility               | LUFC00<br>LUFN..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Utilisation category                | AC-41<br>AC-43<br>AC-44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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<br>Class 20 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to IEC 60947-6-2<br>Class 20 - frequency limit: 40...60 Hz - temperature compensation: -13...158 °F (-25...70 °C) - conforming to UL 508 |

## Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | 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 UL 508<br>690 V conforming to IEC 60947-1<br>600 V conforming to 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 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                         | 0.3 lb(US) (0.135 kg)                                                                                                                                                                 |

## 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                             | 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 | -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                                                                                                                                                   |

## 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                                                                                                                        |
| WARNING: This product can expose you to chemicals including:                                                                     | WARNING: This product can expose you to chemicals including:                                                                     |
| Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

## Contractual warranty



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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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