

# Product data sheet

Specifications



Reversing ultra compact starter,  
TeSys Hybrid, Safe Torque Off, 3P,  
500VAC, 3kW at 400V, 110 to  
230VAC, Spring trm

LZ8H6X53FU

! Discontinued

! Discontinued on: Feb 27, 2023

Product availability: Non-Stock - Not normally stocked in  
distribution facility

## Main

|                                     |                                                                                                                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                               | TeSys                                                                                                                                                                |
| Product name                        | TeSys Hybrid                                                                                                                                                         |
| Device short name                   | LZ8H                                                                                                                                                                 |
| Product or Component Type           | Reversing ultra-compact starter                                                                                                                                      |
| Motor starter type                  | Direct on line                                                                                                                                                       |
| Poles description                   | 3P                                                                                                                                                                   |
| [Ue] rated operational voltage      | 500 V AC                                                                                                                                                             |
| [Ie] rated operational current      | 6.5 A 500 V AC-53A<br>9 A 500 V AC-51<br>4.5 A 500 V AC-53A mounting side by side<br>6 A 500 V AC-51 mounting side by side                                           |
| Thermal protection adjustment range | 1.5...9 A                                                                                                                                                            |
| Motor power kW                      | 1.5 kW 220 V AC 0.65<br>1.5 kW 230 V AC 0.65<br>2.2 kW 380 V AC 0.65<br>3 kW 400 V AC 0.65<br>3 kW 415 V AC 0.65<br>3 kW 440 V AC 0.65<br>3 kW 500 V AC 0.65         |
| Maximum Horse Power Rating          | 1 hp 200 V AC<br>1.5 hp 230 V AC<br>3 hp 460 V AC                                                                                                                    |
| [Uc] control circuit voltage        | 110...230 V AC 50/60 Hz                                                                                                                                              |
| Safety level                        | SIL 3 IEC 61508-1 stop function<br>PL = e ISO 13849-1 stop function<br>SIL 2 IEC 61508-1 motor protection                                                            |
| Safety reliability data             | SFF = 99 % stop function<br>SFF = 99 % motor protection<br>MTTFd = 289 years stop function<br>MTTFd = 273 years motor protection<br>PFHd = 6.82E-9 1/h stop function |
| Thermal overload class              | Class 10A IEC 60947-4-2                                                                                                                                              |

## Complementary

|                                |                        |
|--------------------------------|------------------------|
| Auxiliary contact composition  | 1 C/O fault signalling |
| Control circuit voltage limits | 85...253 V AC          |
| Current consumption            | <= 4 mA 110...230 V AC |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

|                                        |                                                                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reset                                  | Manual<br>Electrical reset                                                                                                                                                                                                                              |
| Electrical durability                  | 30 Mcycles                                                                                                                                                                                                                                              |
| Maximum operating rate                 | 120 cyc/mn AC-51 50 %<br>6 cyc/mn AC-53A 50 %                                                                                                                                                                                                           |
| Mounting Mode                          | By clips                                                                                                                                                                                                                                                |
| Mounting Support                       | DIN rail                                                                                                                                                                                                                                                |
| Connections - terminals                | spring clamp terminals 1 0.0003...0.004 in² (0.2...2.5 mm²) rigid<br>spring clamp terminals 1 0.0004...0.004 in² (0.25...2.5 mm²) flexible - with cable end<br>spring clamp terminals 1 0.0003...0.004 in² (0.2...2.5 mm²) flexible - without cable end |
| Certifications                         | CULus<br>CE<br>ATEX as associated device for motor protection in zones 1 and 21                                                                                                                                                                         |
| Standards                              | UL 60947-4-1<br>IEC 60947-4-2                                                                                                                                                                                                                           |
| [UI] rated insulation voltage          | 500 V AC 50/60 Hz                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage | 4 kV                                                                                                                                                                                                                                                    |
| Pollution degree                       | 2                                                                                                                                                                                                                                                       |
| Width                                  | 0.9 in (22.5 mm)                                                                                                                                                                                                                                        |
| Height                                 | 3.9 in (99 mm)                                                                                                                                                                                                                                          |
| Depth                                  | 4.5 in (114.5 mm)                                                                                                                                                                                                                                       |
| Product Weight                         | 7.5 oz (212 g)                                                                                                                                                                                                                                          |

## Environment

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| IP degree of protection               | IP20                                                                                 |
| Protective treatment                  | TC                                                                                   |
| Ambient air temperature for operation | -13...86 °F (-25...30 °C) without derating<br>86...158 °F (30...70 °C) with derating |
| Ambient Air Temperature for Storage   | -40...176 °F (-40...80 °C)                                                           |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10I1222349  |
| Discount Schedule | 0I12          |
| GTIN              | 3606485421285 |
| Returnability     | No            |

## Packing Units

|                              |                  |
|------------------------------|------------------|
| Unit Type of Package 1       | PCE              |
| Nbr. of units in pkg.        | 1                |
| Package 1 Height             | 1.4 in (3.6 cm)  |
| Package 1 Width              | 4.4 in (11.2 cm) |
| Package 1 Length             | 4.4 in (11.2 cm) |
| Package weight(Lbs)          | 9.1 oz (259.0 g) |
| Unit Type of Package 2       | S01              |
| Number of Units in Package 2 | 10               |

|                  |                         |
|------------------|-------------------------|
| Package 2 Height | 5.9 in (15.0 cm)        |
| Package 2 Width  | 5.9 in (15.0 cm)        |
| Package 2 Length | 15.7 in (40.0 cm)       |
| Package 2 Weight | 6.100 lb(US) (2.767 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better

| Materials and Substances  |                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive         | <a href="#">Compliant</a>                                                                                  |
| California proposition 65 | WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

| Repack and remanufacture |                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEEE Label               |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |