

# Product datasheet

Specifications



## Reversing Starter TeSys H Safe-Torque-Off 3kW-400V control 24VDC Spring

Local distributor code: 403007558 LZ8H6X53BD

### 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 at 500 V AC-53A<br>9 A at 500 V AC-51<br>5 A at 500 V AC-53A mounting side by side<br>7 A at 500 V AC-51 mounting side by side  |
| Thermal protection adjustment range | 1.5...9 A   |
| Motor power kW                      | 1.5 kW at 220 V AC 0.65<br>1.5 kW at 230 V AC 0.65<br>2.2 kW at 380 V AC 0.65<br>3 kW at 400 V AC 0.65<br>3 kW at 415 V AC 0.65<br>3 kW at 440 V AC 0.65<br>3 kW at 500 V AC 0.65 |
| Motor power hp                      | 1 hp at 200 V AC<br>1.5 hp at 230 V AC<br>3 hp at 460 V AC  |
| [Uc] control circuit voltage        | 24 V DC   |
| Safety level                        | SIL 3 conforming to IEC 61508-1 stop function<br>PL = e conforming to ISO 13849-1 stop function<br>SIL 2 conforming to IEC 61508-1 motor protection                               |
| Safety reliability data             | MTTFd = 517 years stop function<br>PFHd = 2.67E-9 1/h stop function<br>SFF = 99 % stop function<br>SFF = 99 % motor protection<br>MTTFd = 447 years motor protection              |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-2   |

### Complementary

|                                |                        |
|--------------------------------|------------------------|
| Auxiliary contact composition  | 1 C/O fault signalling |
| Control circuit voltage limits | 19.2...30 V DC         |
| Current consumption            | <= 40 mA at 24 V DC    |
| Reset                          | Manual                 |

#### Electrical reset

|  |   |
|--|---|
| <b>Electrical durability</b>                   | 30 Mcycles  |
| <b>Maximum operating rate</b>                  | 120 cyc/mn AC-51 50 % ON<br>6 cyc/mn AC-53A 50 % ON   |
| <b>Mounting mode</b>                           | By clips  |
| <b>Mounting support</b>                        | DIN rail  |
| <b>Connections - terminals</b>                 | Spring clamp terminals 1 cable(s) 0.2...2.5 mm <sup>2</sup> - rigid<br>Spring clamp terminals 1 cable(s) 0.25...2.5 mm <sup>2</sup> - flexible - with cable end<br>Spring clamp terminals 1 cable(s) 0.2...2.5 mm <sup>2</sup> - flexible - without cable end |
| <b>Certifications</b>                          | CULus<br>ATEX as associated device for motor protection in zones 1 and 21<br>CE   |
| <b>Standards</b>                               | UL 60947-4-1<br>IEC 60947-4-2   |
| <b>[Ui] rated insulation voltage</b>           | 500 V AC 50/60 Hz   |
| <b>[Uiimp] rated impulse withstand voltage</b> | 6 kV  |
| <b>Pollution degree</b>                        | 2   |
| <b>Width</b>                                   | 22.5 mm   |
| <b>Height</b>                                  | 99 mm   |
| <b>Depth</b>                                   | 114.5 mm  |
| <b>Net weight</b>                              | 212 g   |

#### Environment

|  |  |
|--|--|
| <b>IP degree of protection</b>               | IP20   |
| <b>Protective treatment</b>                  | TC   |
| <b>Ambient air temperature for operation</b> | -25...30 °C without derating<br>30...70 °C with derating |
| <b>Ambient air temperature for storage</b>   | -40...80 °C  |

#### Packing Units

|                                     |          |
|-------------------------------------|----------|
| <b>Unit Type of Package 1</b>       | PCE      |
| <b>Number of Units in Package 1</b> | 1        |
| <b>Package 1 Weight</b>             | 254.0 g  |
| <b>Package 1 Height</b>             | 3.6 cm   |
| <b>Package 1 width</b>              | 11.7 cm  |
| <b>Package 1 Length</b>             | 11.9 cm  |
| <b>Unit Type of Package 2</b>       | S01      |
| <b>Number of Units in Package 2</b> | 10       |
| <b>Package 2 Weight</b>             | 2.707 kg |
| <b>Package 2 Height</b>             | 15 cm    |
| <b>Package 2 width</b>              | 15 cm    |
| <b>Package 2 Length</b>             | 40 cm    |

#### Offer Sustainability

|                                 |                                   |
|---------------------------------|-----------------------------------|
| <b>Sustainable offer status</b> | Green Premium product             |
| <b>REACH Regulation</b>         | <a href="#">REACH Declaration</a> |
| <b>REACH free of SVHC</b>       | Yes                               |

|                                   |   |
|-----------------------------------|---|
| <b>EU RoHS Directive</b>          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| <b>Toxic heavy metal free</b>     | Yes   |
| <b>Mercury free</b>               | Yes   |
| <b>RoHS exemption information</b> | <a href="#">Yes</a>   |
| <b>China RoHS Regulation</b>      | <a href="#">China RoHS declaration</a>  |
| <b>Environmental Disclosure</b>   | <a href="#">Product Environmental Profile</a>   |
| <b>Circularity Profile</b>        | <a href="#">End of Life Information</a>   |
| <b>WEEE</b>                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## **Contractual warranty**

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|