

# Product data sheet

## Characteristics

# LZ8H2X4BD

Reversing ultra compact starter, TeSys Hybrid,  
Safe Torque Off, 3P, 500VAC, 0.75kW at  
400V, 24VDC



### 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	2.4 A at 500 V AC-51 2.4 A at 500 V AC-53A 2.4 A at 500 V AC-51 mounting side by side 2.4 A at 500 V AC-53A mounting side by side
Thermal protection adjustment range	0.18...2.4 A
Motor power kW	0.37 KW at 220 V AC 0.65 0.37 KW at 230 V AC 0.65 0.75 KW at 380 V AC 0.65 0.75 KW at 400 V AC 0.65 0.75 KW at 415 V AC 0.65 0.75 KW at 440 V AC 0.65 1.1 kW at 500 V AC 0.65
Motor power hp	0.5 Hp at 200 V AC 0.5 Hp at 230 V AC 1 hp at 460 V AC
[Uc] control circuit voltage	24 V DC
Safety level	SIL 3 conforming to IEC 61508-1 stop function PL = e conforming to ISO 13849-1 stop function SIL 2 conforming to IEC 61508-1 motor protection
Safety reliability data	MTTFd = 517 years stop function PFHd = 2.67E-9 1/h stop function SFF = 99 % stop function SFF = 99 % motor protection 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
Electrical durability	30 Mcycles
Maximum operating rate	120 Cyc/Mn AC-51 50 % ON 6 cyc/mn AC-53A 50 % ON
Mounting mode	By clips
Mounting support	DIN rail
Connections - terminals	Screw clamp terminals 1 cable(s) 0.2...2.5 mm <sup>2</sup> - rigid Screw clamp terminals 1 cable(s) 0.25...2.5 mm <sup>2</sup> - flexible - with cable end Screw clamp terminals 1 cable(s) 0.2...2.5 mm <sup>2</sup> - flexible - without cable end
Tightening torque	0.5...0.6 N.m flat Ø 2.5 mm screwdriver 3 mm

Certifications	CE ATEX as associated device for motor protection in zones 1 and 21 CULus
Standards	IEC 60947-4-2 UL 60947-4-1
[Ui] rated insulation voltage	500 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	6 kV
Pollution degree	2
Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Net weight	212 g

## Environment

IP degree of protection	IP20
Protective treatment	TC
Ambient air temperature for operation	-25...70 °C without derating
Ambient air temperature for storage	-40...80 °C

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.6 cm
Package 1 Width	12.0 cm
Package 1 Length	12.0 cm
Package 1 Weight	266.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	10
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.84 kg

## Offer Sustainability

REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant  <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins