

# Product datasheet

Specifications



## servo motor SHS 100 1,55Nm,no brake,6k RPM

FCE200524B200

### Main

|                           |                                     |
|---------------------------|-------------------------------------|
| Range compatibility       | PacDrive 3                          |
| Device short name         | SHS                                 |
| Product or component type | Servo motor                         |
| Encoder type              | Absolute multiturn SinCos Hiperface |

### Complementary

|                           |  |
|---------------------------|--|
| Maximum mechanical speed  | 6000 rpm   |
| [Us] rated supply voltage | 400 V  |
| Network number of phases  | Three phase  |
| Continuous stall current  | 3.6 A  |
| Continuous stall torque   | 2.5 N.m for LXM62<br>2.5 N.m for LXM52   |
| Continuous power          | 970 W  |
| Peak stall torque         | 10.3 N.m for LXM62 at 2350 mA, 400 V, 3 phases<br>10.3 N.m for LXM52 at 2350 mA, 400 V, 3 phases |
| Nominal output power      | 970 W for LXM62<br>970 W for LXM52   |
| Nominal torque            | 1.55 N.m for LXM62 at 400 V three phase<br>1.55 N.m for LXM52 at 400 V three phase               |
| Nominal speed             | 6000 rpm for LXM62<br>6000 rpm for LXM52   |
| Maximum current Irms      | 15.2 A for LXM62<br>15.2 A for LXM52   |
| Maximum permanent current | 2.35 A   |
| Product compatibility     | LXM62 at 400 V, three phase<br>LXM52 at 400 V, three phase                                       |
| Switching frequency       | 8 kHz  |
| Shaft end                 | Smooth shaft   |
| Shaft diameter            | 14 mm  |
| Shaft length              | 40 mm  |
| Key width                 | 6 mm   |
| Speed feedback resolution | 128 periods  |
| Holding brake             | Without  |
| Holding torque            | 4.65 N.m   |
| Mounting support          | Flange   |

|                                       |   |
|---------------------------------------|---|
| Motor flange size                     | 100 mm  |
| Electrical connection                 | Cable with stripped end   |
| Torque constant                       | 0.7 N.m/A   |
| Back emf constant                     | 2.1 V/krpm at 20 °C   |
| Number of motor poles                 | 3   |
| Rotor inertia                         | 0.58 kg.cm <sup>2</sup>   |
| Stator resistance                     | 2.7 Ohm   |
| Stator inductance                     | 13 mH   |
| Maximum radial force Fr               | 400 N at 6000 rpm   |
| Maximum axial force Fa                | 80 N  |
| Number of motor stacks                | 3   |
| Type of cooling                       | Natural convection  |
| Length                                | 270.7 mm  |
| Centring collar diameter              | 60 mm   |
| Centring collar depth                 | 2.5 mm  |
| Number of mounting holes              | 4   |
| Mounting holes diameter               | 6 mm  |
| Circle diameter of the mounting holes | 71 mm   |
| Net weight                            | 7.1 kg  |
| Sizing reference                      | SC005H2301  |
| Network number of phases              | 3   |
| Temperature copper hot                | 130 °C  |
| Output current 3s peak                | 15.2 A  |
| Inertia                               | 0.0 kg.cm <sup>2</sup> of brake<br>0.58 kg.cm <sup>2</sup> of motor |
| Nominal speed                         | 6000 rpm  |

## Environment

|                         |   |
|-------------------------|---|
| IP degree of protection | IP69K motor: conforming to IEC 60034-5<br>IP67 motor: conforming to IEC 60034-5 |
|-------------------------|---|

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 21.0 cm |
| Package 1 Width              | 18.0 cm |
| Package 1 Length             | 35.6 cm |
| Package 1 Weight             | 4.92 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

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **No**

### Use Longer



#### Lifetime extension

Repair **No**

### Use Again



#### Repack and remanufacture

Take-back **Yes**