Product data sheet

Specifications



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

FCE200524B200

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

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
Phase	Three phase
Continuous stall current	3.6 A
Continuous stall torque	22.1 lbf.in (2.5 N.m) LXM62 22.1 lbf.in (2.5 N.m) LXM52
Continuous power	970 W
Peak stall torque	91.2 lbf.in (10.3 N.m) LXM62 2350 mA, 400 V, 3 phase 91.2 lbf.in (10.3 N.m) LXM52 2350 mA, 400 V, 3 phase
Nominal output power	970 W LXM62 970 W LXM52
Nominal torque	13.72 lbf.in (1.55 N.m) LXM62 400 V three phase 13.72 lbf.in (1.55 N.m) LXM52 400 V three phase
Nominal speed	6000 rpm LXM62 6000 rpm LXM52
Maximum current Irms	15.2 A LXM62 15.2 A LXM52
Maximum permanent current	2.35 A
Product compatibility	LXM62 400 V, three phase LXM52 400 V, three phase
Switching frequency	8 kHz
Shaft end	Smooth shaft
Shaft diameter	0.6 in (14 mm)
Shaft length	1.6 in (40 mm)
Key width	0.2 in (6 mm)
Speed feedback resolution	128 periods
Holding brake	Without
Holding torque	41.16 lbf.in (4.65 N.m)
Mounting Support	Flange

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

Motor flange size	3.9 in (100 mm)
Electrical Connection	Cable with stripped end
Torque constant	0.7 N.m/A
Back emf constant	2.1 V/krpm 68 °F (20 °C)
Number of motor poles	3
Rotor inertia	0.58 kg.cm²
Stator resistance	2.7 Ohm
Stator inductance	13 mH
Maximum radial force Fr	400 N 6000 rpm
Maximum axial force Fa	80 N
Number of motor stacks	3
Type of cooling	Natural convection
Length	10.7 in (270.7 mm)
Centring collar diameter	2.4 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (6 mm)
Circle diameter of the mounting holes	2.8 in (71 mm)
Product Weight	15.7 lb(US) (7.1 kg)
Sizing reference	SC005H2301
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Output current 3s peak	15.2 A
Inertia	0.0 kg.cm² of brake 0.58 kg.cm² of motor
Nominal speed	6000 rpm

Environment

IP degree of protection	IP69K motor: conforming to IEC 60034-5 IP67 motor: conforming to IEC 60034-5

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606485403748
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	8.3 in (21.0 cm)

Package 1 Width	7.09 in (18.0 cm)
Package 1 Length	14.02 in (35.6 cm)
Package weight(Lbs)	10.85 lb(US) (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	**No**