Product data sheet

Specifications

SH3 OMC motor 100mm 4 st. IP65/54 smooth sh. DSL multi turn str. conn.M23 brake

SH31004P0BF3000

Discontinued on: Oct 9, 2023

Discontinued

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

Main

Range Compatibility	PacDrive 3
Device short name	SH3
Product or Component Type	Servo motor

Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	6.2 A
Continuous stall torque	88.5 lbf.in (10 N.m) 115...480 V three phase
Continuous power	2500 W
Peak stall torque	358.5 lbf.in (40.5 N.m) 115...480 V three phase
Nominal output power	1490 W 230 V single phase 2480 W 400 V three phase 2480 W 480 V three phase
Nominal torque	84.08 lbf.in (9.5 N.m) 230 V single phase 69.9 lbf.in (7.9 N.m) 400 V three phase 61.07 lbf.in (6.9 N.m) 480 V three phase
Nominal speed	1500 rpm 230 V single phase 3000 rpm 400 V three phase 3600 rpm 480 V three phase
Maximum current Irms	32.3 A
Shaft end	Smooth shaft
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
IP degree of protection	IP65 motor: conforming to IEC 60034-5 IP54 shaft bushing without shaft seal ring: conforming to IEC 60034-5
Encoder type	Absolute multiturn Hiperface DSL
Speed feedback resolution	262144 points/turn x 4096 turns
Holding brake	With
Holding torque	106.2 lbf.in (12 N.m)
Mounting Support	International standard flange
Motor flange size	3.9 in (100 mm)

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

Electrical Connection	Straight connector
Torque constant	1.62 N.m/A 248 °F (120 °C)
Back emf constant	103 V/krpm 68 °F (20 °C)
Number of motor poles	4
Rotor inertia	5.245 kg.cm²
Stator resistance	1.8 Ohm
Stator inductance	13 mH
Maximum radial force Fr	115 N 2000 rpm 100 N 3000 rpm 145 N 1000 rpm
Maximum axial force Fa	20 N
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	12.1 in (307.5 mm)
Centring collar diameter	3.7 in (95 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9.0 mm)
Circle diameter of the mounting holes	4.5 in (115 mm)
Net Weight	21.6 lb(US) (9.8 kg)
Sizing reference	SH31004P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	quicklock straight connector

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606481804754
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.2 in (26.0 cm)
Package 1 Width	7.9 in (20.0 cm)
Package 1 Length	23.2 in (59.0 cm)
Package weight(Lbs)	24.5 lb(US) (11.1 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	**Pro-active compliance (Product out of EU RoHS legal scope)**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

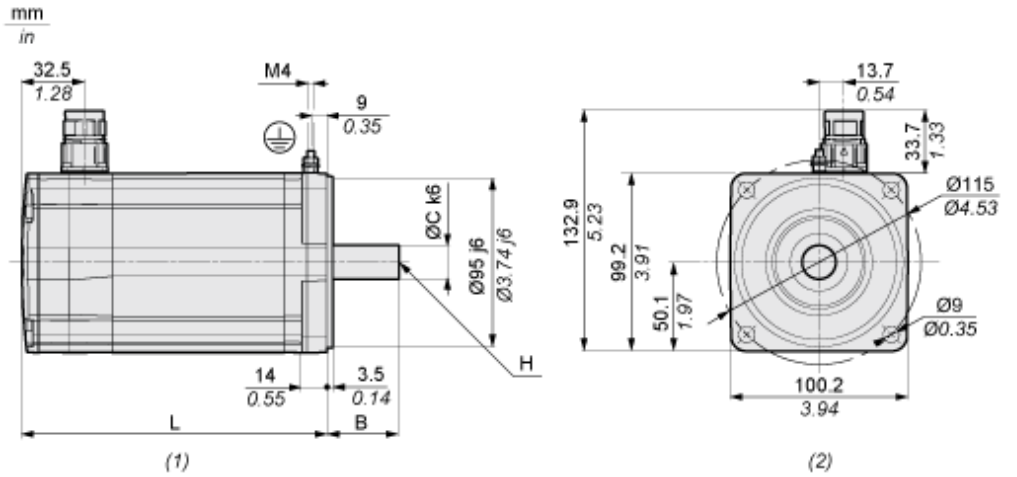
Use Again

Repack and remanufacture

Circularity Profile	**No need of specific recycling operations**

Dimensions Drawings

Dimensions



(1) : Side view

(2) : Mounting

Characteristic		Unit	Value
L	Length with holding brake	mm (in)	307.5 (12.11)
B	Shaft length	mm (in)	50 (1.97)
C	Shaft diameter	mm (in)	24 (0.94)
H	Female thread of shaft		DIN 332-D M8