

Product data sheet

Specifications



SH3 OMC motor 100mm 3 st.
IP65/65 keyed sh. DSL single turn
str. conn.M23 brake

SH31003P1AF3100

⚠ Discontinued on: Oct 9, 2023

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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	6.6 A
Continuous stall torque	70.8 lbf.in (8 N.m) 115...480 V three phase
Continuous power	2400 W
Peak stall torque	250.5 lbf.in (28.3 N.m) 115...480 V three phase
Nominal output power	1470 W 230 V single phase 2390 W 400 V three phase 2390 W 480 V three phase
Nominal torque	62.0 lbf.in (7 N.m) 230 V single phase 50.4 lbf.in (5.7 N.m) 400 V three phase 45.1 lbf.in (5.1 N.m) 480 V three phase
Nominal speed	2000 rpm 230 V single phase 4000 rpm 400 V three phase 4800 rpm 480 V three phase
Maximum current Irms	28.3 A
Shaft end	Parallel key
Shaft diameter	0.7 in (19 mm)
Shaft length	1.6 in (40 mm)
Key width	0.2 in (6 mm)
IP degree of protection	IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5
Encoder type	Absolute single turn Hiperface DSL
Speed feedback resolution	262144 points/turn
Holding brake	With
Holding torque	79.7 lbf.in (9 N.m)
Mounting Support	International standard 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	Rotatable right angled connector
Torque constant	1.22 N.m/A 248 °F (120 °C)
Back emf constant	77 V/krpm 68 °F (20 °C)
Number of motor poles	4
Rotor inertia	3.838 kg.cm²
Stator resistance	1.43 Ohm
Stator inductance	9.4 mH
Maximum radial force Fr	3570 N 2000 rpm 3120 N 3000 rpm 4500 N 1000 rpm
Maximum axial force Fa	740 N
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	10.7 in (271.5 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	18.08 lb(US) (8.2 kg)
Sizing reference	SH31003P
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	3606481804525
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)	19.6 lb(US) (8.9 kg)

Contractual warranty

Warranty (in months)	18
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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

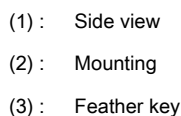
Use Longer

Lifetime extension	
Repair	No

Use Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations

Dimensions



Characteristic		Unit	Value
L	Length with holding brake	mm (in)	271.5 (10.69)
B	Shaft length	mm (in)	40 (1.57)
C	Shaft diameter	mm (in)	19 (0.75)
D	Width of parallel key	mm (in)	6 (0.24)
E	Shaft width with parallel key	mm (in)	21.5 (0.85)
F	Length of parallel key	mm (in)	30 (1.18)
G	Distance parallel key to shaft end	mm (in)	5 (0.2)
H	Female thread of shaft		DIN 332-D M6
	Parallel key		DIN 6885-A6x6x30