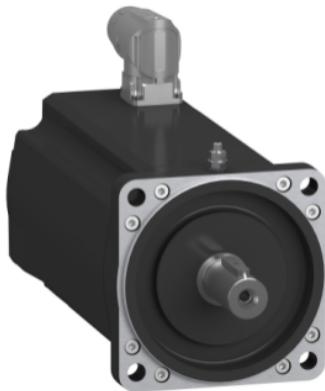


# Product data sheet

## Characteristics

# SH31001P1AF4100

SH3 OMC motor 100mm 1 st. IP65/65 keyed sh. DSL single turn ang.conn.M23 brake



### Main

Range compatibility	PacDrive 3
Device short name	SH3.....P
Product or component type	Servo motor

### Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	3.5 A
Continuous stall torque	2.94 N.m at 115...480 V three phase
Continuous power	1190 W
Peak stall torque	9.6 N.m at 115...480 V three phase
Nominal output power	690 W at 230 V single phase 1190 W at 400 V three phase 1190 W at 480 V three phase
Nominal torque	2.64 N.M at 230 V single phase 2.27 N.M at 400 V three phase 2.27 N.m at 480 V three phase
Nominal speed	2500 rpm at 230 V single phase 5000 rpm at 400 V three phase 6000 rpm at 480 V three phase
Maximum current I <sub>rms</sub>	12 A
Shaft end	Parallel key
Shaft diameter	19 mm
Shaft length	40 mm
Key width	6 mm
IP degree of protection	IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5
Encoder type	Absolute single turn Hiperface DSL
Speed feedback resolution	262144 points/turn
Holding brake	With
Holding torque	9 N.m
Mounting support	International standard flange
Motor flange size	100 mm
Electrical connection	Rotatable right angled connector
Torque constant	0.84 N.m/A at 120 °C
Back emf constant	60 V/krpm at 20 °C
Number of motor poles	4
Rotor inertia	2.018 kg.cm <sup>2</sup>
Stator resistance	3.8 Ohm

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Stator inductance	19 mH
Maximum radial force Fr	1930 N at 1000 rpm 1530 N at 2000 rpm 1340 N at 3000 rpm
Maximum axial force Fa	300 N
Brake pull-in power	12 W
Type of cooling	Natural convection
Length	199.5 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9.0 mm
Circle diameter of the mounting holes	115 mm
Net weight	5.0 kg

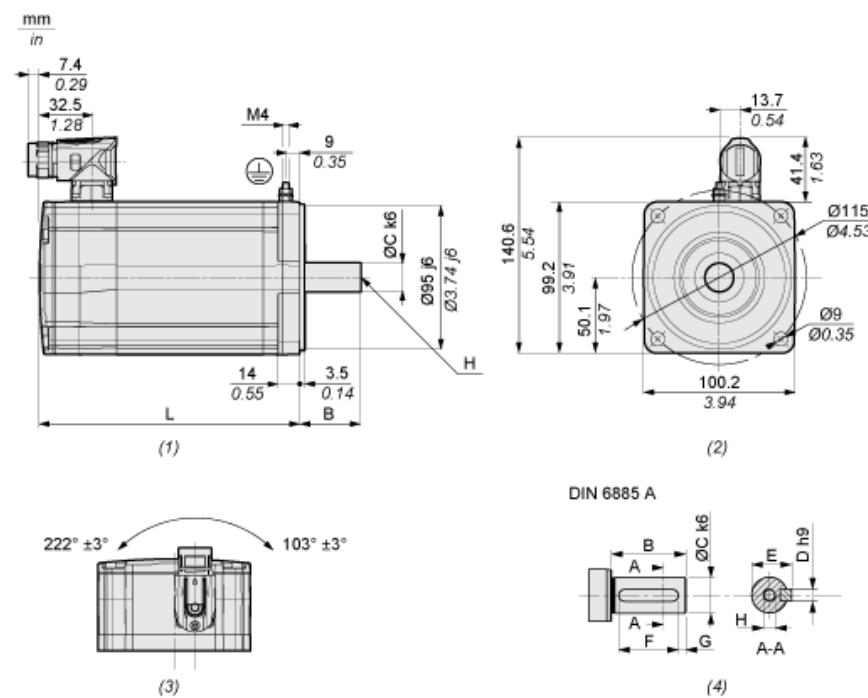
### Packing Units

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	5.7 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Dimensions



(1) : Side view  
 (2) : Mounting  
 (3) : Rotating area  
 (4) : Feather key

Characteristic		Unit	Value
L	Length with holding brake	mm (in)	199.5 (7.85)
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