

# Product data sheet

## Characteristics

# SH30701P1AA4000

SH3 OMC motor 70mm 1 st. IP65/54 keyed sh.  
DSL single turn ang.conn.M23



### Main

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

### Complementary

Maximum mechanical speed	8000 rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	1.8 A
Continuous stall torque	1.25 N.m at 115...480 V three phase
Continuous power	690 W
Peak stall torque	3.5 N.m at 115...480 V three phase
Nominal output power	370 W at 230 V single phase 690 W at 400 V three phase 690 W at 480 V three phase
Nominal torque	1.4 N.M at 230 V single phase 1.1 N.M at 400 V three phase 1.1 N.m at 480 V three phase
Nominal speed	3000 rpm at 230 V single phase 6000 rpm at 400 V three phase 7200 rpm at 480 V three phase
Maximum current I <sub>rms</sub>	5.7 A
Shaft end	Parallel key
Shaft diameter	11 mm
Shaft length	23 mm
Key width	4 mm
IP degree of protection	IP65 motor: conforming to EN/IEC 60034-5 IP54 shaft bushing without shaft seal ring: conforming to EN/IEC 60034-5
Encoder type	Absolute single turn Hiperface DSL
Speed feedback resolution	262144 points/turn
Holding brake	Without
Mounting support	International standard flange
Motor flange size	70 mm
Electrical connection	Rotatable right angled connector
Torque constant	0.69 N.m/A at 120 °C
Back emf constant	46 V/krpm at 20 °C
Number of motor poles	3
Rotor inertia	0.250 kg.cm <sup>2</sup>
Stator resistance	10.4 Ohm
Stator inductance	42.6 mH

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Maximum radial force Fr	730 N at 1000 rpm
Maximum axial force Fa	80 N
Type of cooling	Natural convection
Length	154 mm
Centring collar diameter	60 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	5.5 mm
Circle diameter of the mounting holes	82 mm
Net weight	2.1 kg

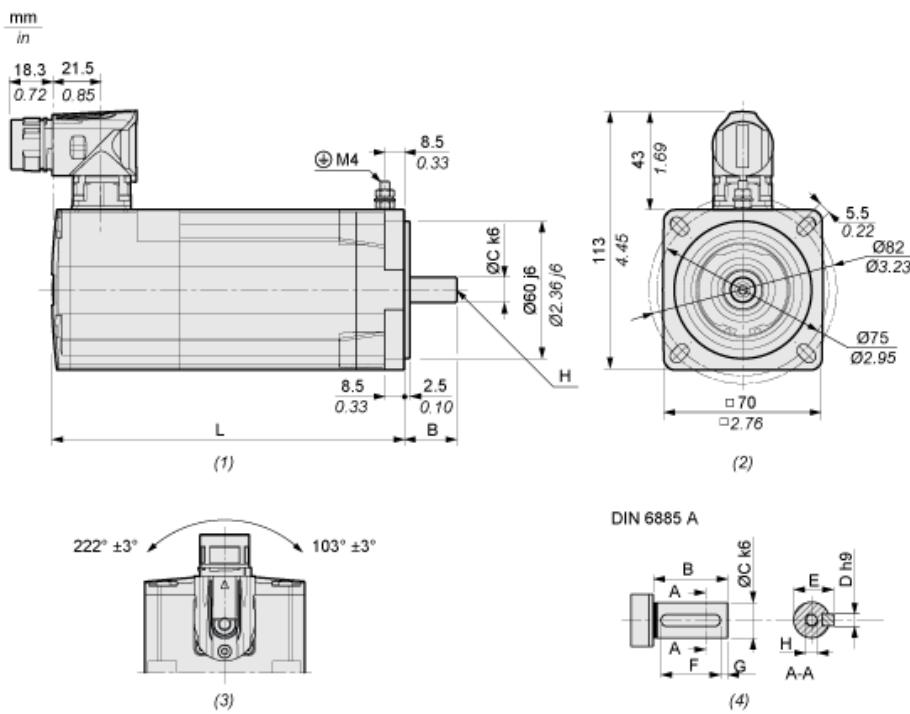
### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.5 cm
Package 1 Width	19.0 cm
Package 1 Length	39.5 cm
Package 1 Weight	2.7 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 without holding brake	mm (in)	154 (6.06)
B	Shaft length	mm (in)	23 (0.91)
C	Shaft diameter	mm (in)	11 (0.43)
D	Width of parallel key	mm (in)	4 (0.16)
E	Shaft width with parallel key	mm (in)	12.5 (0.49)
F	Length of parallel key	mm (in)	18 (0.71)
G	Distance parallel key to shaft end	mm (in)	2.5 (0.1)
H	Female thread of shaft		DIN 332-D M4
	Parallel key		DIN 6885-A4x4x18