# Product data sheet Characteristics

# SH30703P0BA3100

SH3 OMC motor 70mm 3 st. IP65/65 smooth sh. DSL multi turn str. conn.M23





Main	
Range Compatibility	PacDrive 3
Product or Component Type	Servo motor
Device short name	SH3P

#### Complementary

Maximum mechanical speed	8000 rpm			
[Us] rated supply voltage	115480 V			
Phase	Three phase			
Continuous stall current	4.1 A			
Continuous stall torque	26.02 lbf.in (2.94 N.m) 115480 V three phase			
Continuous power	1330 W			
Peak stall torque	100.01 lbf.in (11.3 N.m) 115480 V three phase			
Nominal output power	830 W 230 V single phase 1330 W 400 V three phase 1330 W 480 V three phase			
Nominal torque	24.78 Lbf.ln (2.8 N.m) 230 V single phase 18.59 Lbf.ln (2.1 N.m) 400 V three phase 18.59 lbf.in (2.1 N.m) 480 V three phase			
Nominal speed	3000 rpm 230 V single phase 6000 rpm 400 V three phase 7200 rpm 480 V three phase			
Maximum current Irms	17 A			
Shaft end	Smooth shaft			
Shaft diameter	0.55 in (14 mm)			
Shaft length	1.18 in (30 mm)			
IP degree of protection	Motor IP65 EN/IEC 60034-5 Shaft bushing IP65 EN/IEC 60034-5			
Encoder type	Absolute multiturn Hiperface DSL			
Speed feedback resolution	262144 points/turn x 4096 turns			
Holding brake	Without			
Mounting Support	International standard flange			
Motor flange size	2.76 in (70 mm)			
Electrical Connection	Rotatable right angled connector			
Torque constant	0.72 N.m/A 248 °F (120 °C)			
Back emf constant	49 V/krpm 68 °F (20 °C)			
Number of motor poles	3			
Rotor inertia	0.580 kg.cm²			
Stator resistance	2.7 Ohm			
Stator inductance	14.6 mH			
Maximum radial force Fr	1070 N 1000 rpm			
Maximum axial force Fa	160 N			

### Ordering and shipping details

Category	18359-PACDRIVE3 SERVO MOTORS	
Discount Schedule	PC52	
GTIN	3606481803443	
Returnability	No	

## Packing Units

PCE	
1	
4.53 in (11.5 cm)	
7.48 in (19.0 cm)	
15.55 in (39.5 cm)	
9.04 lb(US) (4.1 kg)	
	1 4.53 in (11.5 cm) 7.48 in (19.0 cm) 15.55 in (39.5 cm)

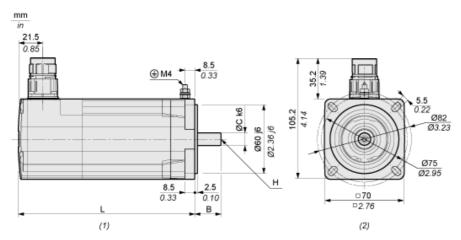
### Offer Sustainability

Sustainable offer status	Green Premium product	
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	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS  Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	₽¥Yes	
Environmental Disclosure	Product Environmental Profile	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
PVC free	Yes	

# Product data sheet Dimensions Drawings

# SH30703P0BA3100

#### **Dimensions**



(1): Side view(2): Mounting

Characteristic		Unit	Value
L	Length without holding brake	mm (in)	220 (8.66)
В	Shaft length	mm (in)	30 (1.18)
С	Shaft diameter	mm (in)	14 (0.55)
Н	Female thread of shaft		DIN 332-D M5