

Product data sheet

Characteristics

SH31001M12F2100

servo motor SH3 100

3,3Nm,key,multi,brake,90°conn.IP65/IP65,6k RPM



Main

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

Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	1.8 A
Continuous stall torque	29.21 lbf.in (3.3 N.m) 115...480 V three phase
Peak stall torque	84.97 lbf.in (9.6 N.m) 115...480 V three phase
Nominal output power	210 W 115 V three phase 410 W 230 V three phase 790 W 400 V three phase 930 W 480 V three phase
Nominal torque	28.32 lbf.in (3.2 N.m) 115 V three phase 27.88 lbf.in (3.15 N.m) 230 V three phase 26.55 lbf.in (3 N.m) 400 V three phase 26.11 lbf.in (2.95 N.m) 480 V three phase
Nominal speed	625 rpm 115 V three phase 1250 rpm 230 V three phase 2500 rpm 400 V three phase 3000 rpm 480 V three phase
Maximum current Irms	6.3 A
Shaft end	Parallel key
Shaft diameter	0.75 in (19 mm)
Shaft length	1.57 in (40 mm)
Key width	0.24 in (6 mm)
IP degree of protection	Motor IP65 EN/IEC 60034-5 Shaft bushing IP65 EN/IEC 60034-5
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With

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

Holding torque	79.66 lbf.in (9 N.m)
Mounting support	International standard flange
Motor flange size	3.94 in (100 mm)
Electrical connection	Rotatable right angled connector
Torque constant	1.83 N.m/A 248 °F (120 °C)
Back emf constant	115 V/krpm 68 °F (20 °C)
Number of motor poles	4
Rotor inertia	2.018 kg.cm ²
Stator resistance	13.9 Ohm
Stator inductance	99.15 mH
Maximum radial force Fr	900 N 1000 rpm 720 N 2000 rpm 630 N 3000 rpm 570 N 4000 rpm 530 N 5000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	7.85 in (199.5 mm)
Centring collar diameter	3.74 in (95 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.35 in (9 mm)
Circle diameter of the mounting holes	4.53 in (115 mm)
Net weight	10.58 lb(US) (4.8 kg)

Contractual warranty

Warranty	18 months
----------	-----------