

# Motor SH31402P11A2000

URL: <https://www.sxplc.com/motor-sh31402p11a2000>

## Product data sheet

MainRange Compatibility	PacDrive 3
Device short name	SH3.....P
Product or Component Type	Servo motor

Complementary	Maximum mechanical speed	4000 rpm
	[Us] rated supply voltage	115...480 V
	Phase	Three phase
	Continuous stall current	13.2 A
	Continuous stall torque	172.6 lbf.in (19.5 N.m) 115...480 V three phase
	Continuous power	3900 W
	Peak stall torque	531.9 lbf.in (60.1 N.m) 115...480 V three phase
	Nominal output power	1460 W 115 V single phase 2690 W 230 V single phase 3860 W 400 V three phase 3660 W 480 V three phase
	Nominal torque	164.6 lbf.in (18.6 N.m) 115 V single phase 151.3 lbf.in (17.1 N.m) 230 V single phase 108.9 lbf.in (12.3 N.m) 400 V three phase 85.9 lbf.in (9.7 N.m) 480 V three phase
	Nominal speed	750 rpm 115 V single phase

	1500 rpm 230 V single phase 3000 rpm 400 V three phase 3600 rpm 480 V three phase
Maximum current Irms	44.1 A
Shaft end	Parallel key
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
Key width	0.3 in (8 mm)
IP degree of protection	IP54 shaft bushing without shaft seal ring: conforming to 60034-5 IP65 motor: conforming to EN/IEC 60034-5 IP65 shaft bushing: conforming to EN/IEC 60034-5
Encoder type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting Support	International standard flange
Motor flange size	5.5 in (140 mm)
Electrical Connection	Rotatable right angled connector
Torque constant	1.47 N.m/A 248.0000000000 °F (120 °C)
Back emf constant	101 V/krpm 68.0000000000 °F (20 °C)
Number of motor poles	5
Rotor inertia	12.68 kg.cm <sup>2</sup>
Stator resistance	0.6 Ohm
Stator inductance	11.225 mH
Maximum radial force Fr	2240 N 1000 rpm 1780 N 2000 rpm 1550 N 3000 rpm
Maximum axial force Fa	300 N
Type of cooling	Natural convection
Length	10.7 in (272.5 mm)

Centring collar diameter	5.1 in (130 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Net Weight	36.6 lb(US) (16.6 kg)

Ordering and shipping details	Category	US1PC5218359
	Discount Schedule	PC52
	GTIN	3606485297781
	Returnability	No
	Country of origin	US

