

# Product data sheet

## Characteristics

# SH31001P01F2100

servo motor SH3 100

3,3Nm,nokey,single,brake,90°conn.IP65/IP65,6k RPM

Product availability : Non-Stock - Not normally stocked in distribution facility



Price\*\* : 1,663.20 USD



### Main

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

### Complementary

Maximum mechanical speed	6000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	3.5 A
Continuous stall torque	29.2 lbf.in (3.3 N.m) at 115...480 V three phase
Peak stall torque	84.96 lbf.in (9.6 N.m) at 115...480 V three phase
Nominal output power	1630 W at 480 V three phase 410 W at 115 V three phase 790 W at 230 V three phase 1410 W at 400 V three phase
Nominal torque	27.88 lbf.in (3.15 N.m) at 115 V three phase 23.01 lbf.in (2.6 N.m) at 480 V three phase 26.55 lbf.in (3 N.m) at 230 V three phase 23.89 lbf.in (2.7 N.m) at 400 V three phase
Nominal speed	1250 rpm at 115 V three phase 2500 rpm at 230 V three phase 5000 rpm at 400 V three phase 6000 rpm at 480 V three phase
Maximum current Irms	12 A
Shaft end	Smooth shaft
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	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	With
Holding torque	79.65 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	0.89 N.m/A at 248 °F (120 °C)
Back emf constant	60 V/krpm at 68 °F (20 °C)
Number of motor poles	4
Rotor inertia	2.018 kg.cm <sup>2</sup>
Stator resistance	3.8 Ohm
Stator inductance	27.15 mH
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 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)
Product weight	10.58 lb(US) (4.8 kg)

## Ordering and shipping details

Category	18359 - PACDRIVE3 SERVO MOTORS
Discount Schedule	PC52
Nbr. of units in pkg.	1
Package weight(Lbs)	9.460000000000009
Returnability	N

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1036 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
----- More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	18 months
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