

# SH32051P11F2100

servo motor SH3 205

36,9Nm,key,single,brake,90°conn.IP65/  
IP65,3.8k RPM



## Main

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

## Complementary

Maximum mechanical speed	3800 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	21 A
Continuous stall torque	326.59 lbf.in (36.9 N.m) 115...480 V three phase
Continuous power	5500 W
Peak stall torque	973.58 lbf.in (110 N.m) 115...480 V three phase
Nominal output power	2510 W 115 V single phase 4240 W 230 V single phase 5500 W 400 V three phase 5200 W 480 V three phase
Nominal torque	282.34 Lbf.In (31.9 N.m) 115 V single phase 238.97 Lbf.In (27 N.m) 230 V single phase 154.89 Lbf.In (17.5 N.m) 400 V three phase 122.14 lbf.in (13.8 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	87.2 A
Shaft end	Parallel key
Shaft diameter	1.50 in (38 mm)
Shaft length	3.15 in (80 mm)
Key width	0.39 in (10 mm)
IP degree of protection	Motor IP65 EN/IEC 60034-5 Shaft bushing IP65 EN/IEC 60034-5
Encoder type	Absolute single turn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	708.06 lbf.in (80 N.m)
Mounting Support	International standard flange
Motor flange size	8.07 in (205 mm)
Electrical Connection	Straight connector
Torque constant	1.6 N.m/A 248 °F (120 °C)
Back emf constant	104 V/krpm 68 °F (20 °C)
Number of motor poles	5

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Rotor inertia	87.4 kg.cm <sup>2</sup>
Stator resistance	0.3 Ohm
Stator inductance	8.7 mH
Maximum radial force Fr	3730 N 1000 rpm 2960 N 2000 rpm 2580 N 3000 rpm
Maximum axial force Fa	740 N
Type of cooling	Natural convection
Length	14.59 in (370.5 mm)
Centring collar diameter	7.09 in (180 mm)
Centring collar depth	0.16 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.55 in (14 mm)
Circle diameter of the mounting holes	8.46 in (215 mm)
Net Weight	85.10 lb(US) (38.6 kg)

## Ordering and shipping details

Category	18359-PACDRIVE3 SERVO MOTORS
Discount Schedule	PC52
GTIN	3606481973313
Returnability	No

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	77.00 lb(US) (34.927 kg)

## 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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	<a href="#">Yes</a>
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

## Contractual warranty

Warranty	18 months
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