

# Product datasheet

## Characteristics

**SH32051P01F2200**  
**servo motor SH3 205**  
**36,9Nm,nokey,single,brake,90°conn.IP65/**  
**IP67,3.8k 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
Network number of phases	Three phase
Continuous stall current	21 A
Continuous stall torque	36.9 N.m at 115...480 V three phase
Peak stall torque	110 N.m at 115...480 V three phase
Nominal output power	2510 W at 115 V three phase 4240 W at 230 V three phase 5500 W at 400 V three phase 5200 W at 480 V three phase
Nominal torque	31.9 N.m at 115 V three phase 27 N.m at 230 V three phase 17.5 N.m at 400 V three phase 13.8 N.m at 480 V three phase
Nominal speed	750 rpm at 115 V three phase 1500 rpm at 230 V three phase 3000 rpm at 400 V three phase 3600 rpm at 480 V three phase
Maximum current $I_{rms}$	87.2 A
Shaft end	Smooth shaft
Shaft diameter	38 mm
Shaft length	80 mm
Key width	10 mm
IP degree of protection	IP65 motor: conforming to EN/IEC 60034-5

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

IP65 shaft bushing: conforming to EN/IEC 60034-5  
IP67 housing: conforming to EN/IEC 60034-5

Encoder type	Absolute single turn SinCos Hipercos
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	80 N.m
Mounting support	International standard flange
Motor flange size	205 mm
Torque constant	1.6 N.m/A at 120 °C
Back emf constant	104 V/krpm at 20 °C
Number of motor poles	5
Rotor inertia	87.4 kg.cm²
Stator resistance	0.3 Ohm
Stator inductance	8.7 mH
Maximum radial force Fr	3730 N at 1000 rpm 2960 N at 2000 rpm 2580 N at 3000 rpm
Maximum axial force Fa	740 N
Type of cooling	Natural convection
Length	370.5 mm
Centring collar diameter	180 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	14 mm
Circle diameter of the mounting holes	215 mm
Product weight	38.6 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</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

### Contractual warranty

Warranty	18 months
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