

Product data sheet

Specifications



SH3 servomotor, 205mm, 3 stacks, keyed Shaft, SinCos Multiturn 128, no Brake, angular, IP65/65

SH32053P12A2100

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

Main

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

Complementary

Maximum mechanical speed	3800 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	33.2 A
Continuous stall torque	835.5 lbf.in (94.4 N.m) 115...480 V three phase
Continuous power	10600 W
Peak stall torque	2920.7 lbf.in (330 N.m) 115...480 V three phase
Nominal output power	4450 W 115 V single phase 7790 W 230 V single phase 10620 W 400 V three phase 10100 W 480 V three phase
Nominal torque	751.4 lbf.in (84.9 N.m) 115 V single phase 658.5 lbf.in (74.4 N.m) 230 V single phase 448.7 lbf.in (50.7 N.m) 400 V three phase 355.8 lbf.in (40.2 N.m) 480 V three phase
Nominal speed	500 rpm 115 V single phase 1000 rpm 230 V single phase 2000 rpm 400 V three phase 2400 rpm 480 V three phase
Maximum current Irms	136.1 A
Shaft end	Parallel key
Shaft diameter	1.5 in (38 mm)
Shaft length	3.1 in (80 mm)
Key width	0.4 in (10 mm)
IP degree of protection	IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	Without
Mounting Support	International standard flange
Motor flange size	8.07 in (205 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

Electrical Connection	Straight connector
Torque constant	2.84 N.m/A 248 °F (120 °C)
Back emf constant	172 V/krpm 68 °F (20 °C)
Number of motor poles	5.0
Rotor inertia	190 kg.cm²
Stator resistance	0.2 Ohm
Stator inductance	2.05 mH
Maximum radial force Fr	4500 N 1000 rpm 3570 N 2000 rpm 3120 N 3000 rpm
Maximum axial force Fa	740 N
Type of cooling	Natural convection
Length	19.3 in (489 mm)
Centring collar diameter	7.09 in (180 mm)
Centring collar depth	0.2 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.6 in (14 mm)
Circle diameter of the mounting holes	8.5 in (215 mm)
Product Weight	147.7 lb(US) (67 kg)
Sizing reference	SH32053P
Network number of phases	3
Temperature copper hot	266 °F (130 °C)
Electrical connection	rotatable right angled connector
Output current 3s peak	136.1 A
Inertia	0.0 kg.cm² of brake 190.0 kg.cm² of motor

Ordering and shipping details

Category	US1PC5218359
Discount Schedule	PC52
GTIN	3606481973733
Returnability	Yes
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	31.3 in (79.5 cm)
Package 1 Width	11.8 in (30 cm)
Package 1 Length	15.7 in (40 cm)
Package weight(Lbs)	156.66 lb(US) (71.06 kg)

Contractual warranty



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	4 497 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	36 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	4 459 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.8 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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 www.P65Warnings.ca.gov
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	0
Take-back	No