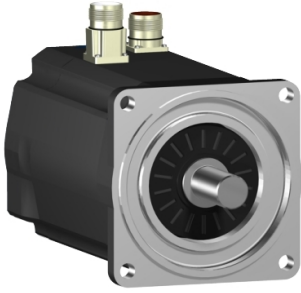


# Product data sheet

Specifications



SH3 servomotor, 140mm, 4 stacks, smooth Shaft, SinCos Multiturn 128, Brake, straight, IP65/67

SH31404P02F1200

**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	4000 rpm
[Us] rated supply voltage	115...480 V
Phase	Three phase
Continuous stall current	21.3 A
Continuous stall torque	295.6 lbf.in (33.4 N.m) 115...480 V three phase
Continuous power	4040 W
Peak stall torque	1167.4 lbf.in (131.9 N.m) 115...480 V three phase
Nominal output power	2370 W 115 V single phase 4130 W 230 V single phase 4040 W 400 V three phase 4190 W 480 V three phase
Nominal torque	267.3 lbf.in (30.2 N.m) 115 V single phase 232.8 lbf.in (26.3 N.m) 230 V single phase 114.2 lbf.in (12.9 N.m) 400 V three phase 98.2 lbf.in (11.1 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	95.6 A
Shaft end	Smooth shaft
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
IP degree of protection	IP65 motor: conforming to IEC 60034-5 IP65 shaft bushing: conforming to IEC 60034-5 IP67 housing: conforming to IEC 60034-5
Encoder type	Absolute multiturn SinCos Hiperface
Speed feedback resolution	128 periods
Holding brake	With
Holding torque	318.6 lbf.in (36 N.m)
Mounting Support	International standard flange
Motor flange size	5.5 in (140 mm)

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

<b>Electrical Connection</b>	Straight connector
<b>Torque constant</b>	1.57 N.m/A 248 °F (120 °C)
<b>Back emf constant</b>	104 V/krpm 68 °F (20 °C)
<b>Number of motor poles</b>	5
<b>Rotor inertia</b>	29.2 kg.cm <sup>2</sup>
<b>Stator resistance</b>	0.28 Ohm
<b>Stator inductance</b>	2.035 mH
<b>Maximum radial force Fr</b>	2660 N 1000 rpm 2110 N 2000 rpm 1840 N 3000 rpm
<b>Maximum axial force Fa</b>	300 N
<b>Type of cooling</b>	Natural convection
<b>Length</b>	16.6 in (420.5 mm)
<b>Centring collar diameter</b>	5.1 in (130 mm)
<b>Centring collar depth</b>	0.1 in (3.5 mm)
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	0.4 in (11 mm)
<b>Circle diameter of the mounting holes</b>	6.5 in (165 mm)
<b>Net Weight</b>	61.3 lb(US) (27.8 kg)
<b>Sizing reference</b>	SH31404P
<b>Network number of phases</b>	3
<b>Temperature copper hot</b>	266 °F (130 °C)
<b>Electrical connection</b>	straight connector
<b>Output current 3s peak</b>	95.6 A
<b>Inertia</b>	5.5 kg.cm <sup>2</sup> of brake 23.7 kg.cm <sup>2</sup> of motor

## Ordering and shipping details

<b>Category</b>	US1PC5218359
<b>Discount Schedule</b>	PC52
<b>GTIN</b>	3606488060245
<b>Returnability</b>	No
<b>Country of origin</b>	DE

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	23.2 in (59 cm)
<b>Package 1 Width</b>	7.9 in (20 cm)
<b>Package 1 Length</b>	10.2 in (26 cm)
<b>Package weight(Lbs)</b>	67.00 lb(US) (30.39 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 >](#)

### Use Better

<b>Materials and Substances</b>	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> 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>
PVC free	Yes

### Use Longer

<b>Lifetime extension</b>	
Repair	No

### Use Again

<b>Repack and remanufacture</b>	
Circularity Profile	No need of specific recycling operations
Take-back	No