Product data sheet
Characteristics

SH31002P02A2000
SH3 servomotor, 100mm, 2 stacks, smooth Shaft, SinCos Multiturn 128, no Brake, angular, IP54/65



Main

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

Complementary

Maximum mechanical speed	6000 Rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	4.8 A
Continuous stall torque	5.8 N.M at 115...480 V three phase
Continuous power	1900 W
Peak stall torque	18.3 N.M at 115...480 V three phase
Nominal output power	580 W at 115 V single phase 1090 W at 230 V single phase 1930 W at 400 V three phase 2210 W at 480 V three phase
Nominal torque	5.5 N.M at 115 V single phase 5.2 N.M at 230 V single phase 4.6 N.M at 400 V three phase 4.4 N.M at 480 V three phase
Nominal speed	1000 rpm at 115 V single phase 2000 rpm at 230 V single phase 4000 rpm at 400 V three phase 4800 rpm at 480 V three phase
Maximum current Irms	17.1 A
Shaft end	Smooth shaft
Shaft diameter	19 Mm
Shaft length	40 Mm
IP degree of protection	IP54 shaft bushing without shaft seal ring: conforming to IEC 60034-5 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	100 Mm
Electrical connection	Rotatable right angled connector
Torque constant	1.21 N.M/A at 120 °C
Back emf constant	77 V/Krpm at 20 °C

Number of motor poles	4.0
Rotor inertia	2.31 Kg.Cm²
Stator resistance	2.4 Ohm
Stator inductance	6.75 MH
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm
Maximum axial force Fa	160 N
Type of cooling	Natural convection
Length	204.5 Mm
Centring collar diameter	95 Mm
Centring collar depth	3.5 Mm
Number of mounting holes	4
Mounting holes diameter	9.0 Mm
Circle diameter of the mounting holes	115 Mm
Net weight	5.8 Kg
Sizing reference	SH31002P
Network number of phases	3
Temperature copper hot	130 °C
Electrical connection	Rotatable right angled connector
Output current 3s peak	17.1 A
Inertia	0.0 Kg.Cm² of brake 2.31 Kg.Cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	20.200 Cm
Package 1 Width	22.300 Cm
Package 1 Length	40.700 Cm
Package 1 Weight	6.744 Kg
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	77.000 Cm
Package 2 Width	60.000 Cm
Package 2 Length	80.000 Cm
Package 2 Weight	90.760 Kg

Offer Sustainability

Recyclability potential, in %	87
Total lifecycle Carbon footprint	0 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0
Carbon footprint of the manufacturing phase [A1 to A3]	0 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	0
Carbon footprint of the use phase [B2, B3, B4, B6]	0 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Total lifecycle Carbon footprint	1
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No

SCIP Number	Ead0850d-370a-47c5-8cf7-1d93c2c974a4
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
End of life manual availability	No need of specific recycling operations
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised