Product data sheet
Characteristics

SH30701P02A2000
SH3 servomotor, 70mm, 1 stack, 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	8000 Rpm
[Us] rated supply voltage	115...480 V
Network number of phases	Three phase
Continuous stall current	1.8 A
Continuous stall torque	1.25 N.M at 115...480 V three phase
Continuous power	690 W
Peak stall torque	3.5 N.M at 115...480 V three phase
Nominal output power	220 W at 115 V single phase 440 W at 230 V single phase 820 W at 400 V three phase 950 W at 480 V three phase
Nominal torque	1.4 N.M at 115 V single phase 1.4 N.M at 230 V single phase 1.1 N.M at 400 V three phase 1.1 N.M at 480 V three phase
Nominal speed	1500 rpm at 115 V single phase 3000 rpm at 230 V single phase 6000 rpm at 400 V three phase 7200 rpm at 480 V three phase
Maximum current Irms	5.7 A
Shaft end	Smooth shaft
Shaft diameter	11 Mm
Shaft length	23 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	70 Mm
Electrical connection	Straight connector
Torque constant	0.69 N.M/A at 120 °C
Back emf constant	46 V/Krpm at 20 °C

Number of motor poles	3.0
Rotor inertia	0.25 Kg.Cm²
Stator resistance	10.4 Ohm
Stator inductance	21.3 MH
Maximum radial force Fr	660 N at 1000 rpm 520 N at 2000 rpm 460 N at 3000 rpm 410 N at 4000 rpm 380 N at 5000 rpm 360 N at 6000 rpm
Maximum axial force Fa	80 N
Type of cooling	Natural convection
Length	154 Mm
Centring collar diameter	60 Mm
Centring collar depth	2.5 Mm
Number of mounting holes	4
Mounting holes diameter	5.5 Mm
Circle diameter of the mounting holes	82 Mm
Net weight	2.1 Kg
Sizing reference	SH30701P
Network number of phases	3
Temperature copper hot	130 °C
Electrical connection	Rotatable right angled connector
Output current 3s peak	5.7 A
Inertia	0.0 Kg.Cm² of brake 0.25 Kg.Cm² of motor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.509 Cm
Package 1 Width	39.530 Cm
Package 1 Length	19.014 Cm
Package 1 Weight	2.694 Kg

Offer Sustainability

Total lifecycle Carbon footprint	1 947 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	11.8202948403
Carbon footprint of the manufacturing phase [A1 to A3]	12 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.3483464373
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0239523833
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1934.2984677937
Carbon footprint of the use phase [B2, B3, B4, B6]	1 934 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.2544235872
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Total lifecycle Carbon footprint	1947
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, which
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