

Product data sheet

Specifications



servo motor BCH16, 80 mm, shaft 19 mm, 750W, Heavy inertia, 3000rpm

BCH16HF07330A5C2

Main

Range compatibility	Easy Lexium 16
Product or component type	Servo motor
Device short name	BCH16

Complementary

Maximum mechanical speed	5000 rpm
[Us] rated supply voltage	220 V
Network number of phases	3 phases
Continuous stall current	4.3 A
Continuous stall torque	2.39 N.m for LXM16D at 7.81 A, 220 V, single phase
Continuous power	750 W
Peak stall torque	7.16 N.m for LXM16D at 7.81 A, 220 V, single phase
Nominal output power	750 W for LXM16D at 7.81 A, 220 V, single phase
Nominal torque	2.39 N.m for LXM16D at 7.81 A, 220 V, single phase
Nominal speed	3000 rpm for LXM16D at 7.81 A, 220 V, single phase
Maximum current Irms	15.3 A for LXM16D at 0.75 kW, 220 V
Maximum permanent current	14 A
Product compatibility	LXM16D motion servo motors motor at 0.75 kW, 220 V, single phase
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	22 mm
Key width	6 mm
Feedback type	2500 incremental encoder
Holding brake	Without
Holding torque	3.0 N.m
Mounting support	Asian standard flange
Motor flange size	80 mm
Electrical connection	Free lead

Torque constant	0.56 N.m/A at 20 °C
Back emf constant	37.3 V/krpm at 20 °C
Rotor inertia	1.51 kg.cm²
Stator resistance	1.51 Ohm at 20 °C
Stator inductance	9.2 mH at 20 °C
Stator electrical time constant	6.09 ms at 20 °C
Maximum radial force Fr	221.48 N at 3000 rpm
Maximum axial force Fa	61.74 N
Type of cooling	Natural convection
Length	137 mm
Centring collar diameter	70 mm
Centring collar depth	3 mm
Number of mounting holes	4
Mounting holes diameter	6.5 mm
Circle diameter of the mounting holes	90 mm
Distance shaft shoulder-flange	36 mm
Width	80 mm
Height	93 mm
Depth	137 mm
Net weight	2.7 kg

Environment

IP degree of protection	IP65 IM B5, IM V1 IP65 IM V3
Ambient air temperature for operation	0...40 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.5 cm
Package 1 Width	17 cm
Package 1 Length	27.5 cm
Package 1 Weight	2.85 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes

Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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

Recommended replacement(s)