



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	1.0 A
Continuous stall torque	0.32 N.m for LXM16D at 1.34 A, 220 V, single phase
Continuous power	100 W
Peak stall torque	0.95 N.m for LXM16D at 1.34 A, 220 V, single phase
Nominal output power	100 W for LXM16D at 1.34 A, 220 V, single phase
Nominal torque	0.32 N.m for LXM16D at 1.34 A, 220 V, single phase
Nominal speed	3000 rpm for LXM16D at 1.34 A, 220 V, single phase
Maximum current Irms	2.7 A for LXM16D at 0.1 kW, 220 V
Maximum permanent current	3 A
Product compatibility	LXM16D motion servo motors motor at 0.1 kW, 220 V, single phase
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	8 mm
Shaft length	12.5 mm
Key width	3 mm
Feedback type	2500 incremental encoder
Holding brake	With
Holding torque	0.32 N.m built-in
Mounting support	Asian standard flange
Motor flange size	40 mm
Electrical connection	Free lead
Torque constant	0.36 N.m/A at 20 °C
Back emf constant	23.7 V/krpm at 20 °C
Rotor inertia	0.047 kg.cm ²
Stator resistance	25.4 Ohm at 20 °C
Stator inductance	26.5 mH at 20 °C
Stator electrical time constant	1.04 ms at 20 °C
Maximum radial force Fr	73.5 N at 3000 rpm
Maximum axial force Fa	12.74 N
Brake pull-in power	6.2 W
Type of cooling	Natural convection

Length	131.3 mm
Centring collar diameter	30 mm
Centring collar depth	2.5 mm
Number of mounting holes	2
Mounting holes diameter	4.5 mm
Circle diameter of the mounting holes	46 mm
Distance shaft shoulder-flange	19.8 mm
Width	40 mm
Height	55 mm
Depth	131.2 mm
Product weight	0.7 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	6.4 cm
Package 1 Width	11 cm
Package 1 Length	25.8 cm
Package 1 Weight	850 g

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