

Product datasheet

Specifications



BEH18 servo motor, Lexium 18, 220V, 100W, M40, 17bit MAG MT, brake

BEH18MB0133MF5C

Main

Range	Lexium 18
Range compatibility	Easy Lexium 18
Device short name	BEH18
Product or component type	Servo motor

Complementary

Maximum mechanical speed	3000 rpm
[Us] rated supply voltage	220 V
Network number of phases	Single phase
Continuous stall current	1.1 A
Continuous stall torque	0.32 N.m, 220 V, single phase
Continuous power	100 W
Peak stall torque	1.12 N.m, 220 V, single phase
Nominal output power	100 W, 220 V, single phase
Nominal torque	0.32 N.m, 220 V, single phase
Nominal speed	3000 rpm, 220 V, single phase
Maximum current Irms	3.9 A at 0.1 kW, 220 V
Maximum permanent current	3.9 A
Product compatibility	Motion servo drive 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	25 mm
Key width	3 mm
Feedback type	17 bits magnetic multi turn encoder
Speed feedback resolution	131072 points/turn
Holding brake	With
Holding torque	0.32 N.m
Mounting support	Asian standard flange
Motor flange size	40 mm
Electrical connection	2 connectors male/female

Torque constant	0.29 N.m/A at 40 °C
Back emf constant	20.1 V/krpm at 40 °C
Number of motor poles	10
Rotor inertia	0.069 kg.cm ²
Maximum radial force Fr	78 N
Maximum axial force Fa	54 N
Type of cooling	Air-cooled
Length	101.1 mm
Number of mounting holes	2
Mounting holes diameter	4.3 mm
Width	40 mm
Height	49.1 mm
Depth	101.1 mm
Product weight	0.57 kg
Encoder type	Magnetic encoder
Inertia	0.069 kg.cm ²

Environment

IP degree of protection	IP67
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	5.7 cm
Package 1 Width	9.4 cm
Package 1 Length	19.8 cm
Package 1 Weight	750 g
Unit Type of Package 2	S03
Number of Units in Package 2	14
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	12240 g



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 >](#)



Environmental footprint

Total lifecycle Carbon footprint	1 602 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 598 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
--------	----

Use Again



Repack and remanufacture

Recyclability potential, in %	90
End of life manual availability	End of Life Information
Take-back	No