Product datasheet

Specifications

Servo motor BEH18, Lexium 18, 1.0kW, 220V, M80, 23bit, OPT MT

BEH18MF1033CA5C

Main

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

Complementary

Maximum mechanical speed	6000.0 rpm
[Us] rated supply voltage	220 V
Network number of phases	Single phase
Continuous stall current	5.9 A
Continuous stall torque	3.18 N.m, 220 V, single phase
Continuous power	1000 W
Peak stall torque	11.13 N.m, 220 V, single phase
Nominal output power	1000 W, 220 V, single phase
Nominal torque	3.18 N.m, 220 V, single phase
Nominal speed	3000 rpm, 220 V, single phase
Maximum current Irms	21 A at 1.0 kW, 220 V
Maximum permanent current	21 A
Product compatibility	Motion servo drive motion servo motors motor at 1.0 kW, 220 V, single phase
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	19.0 mm
Shaft length	35.0 mm
Key width	6.0 mm
Feedback type	23 bits optic multi turn encoder
Speed feedback resolution	8388608 points/turn
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	80 mm
Electrical connection	2 connectors male/female
Torque constant	0.539 N.m/A at 40 °C

Back emf constant	33.9 V/krpm at 40 °C
Number of motor poles	10
Rotor inertia	2.23 kg.cm²
Maximum radial force Fr	392 N
Maximum axial force Fa	147 N
Type of cooling	Air-cooled
Length	107.9 mm
Number of mounting holes	4
Circle diameter of the mounting holes	6.4 mm
Width	107.9 mm
Height	80 mm
Depth	89.9 mm
Product weight	2.59 kg
Network number of phases	1
Encoder type	Optic encoder

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	9.7 cm
Package 1 Width	15.5 cm
Package 1 Length	25.4 cm
Package 1 Weight	2.9 kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	13.45 kg

Contractual warranty

Warranty (in months)	18

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	**7 373 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**19 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.4 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.5 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**7 349 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**5 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

End of life manual availability	End of Life Information
Take-back	**No**