

# Product datasheet

Specifications



## Servo motor BEH18, Lexium 18, 1.0kW, 220V, M80, 17bit, MAG MT, brake

BEH18MF1033MF5C

### 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
Continuous power	1000 W
Peak stall torque	11.13 N.m, 220 V
Nominal output power	1000 W, 220 V
Nominal torque	3.18 N.m, 220 V
Nominal speed	3000 rpm, 220 V, single phase
Maximum current Irms	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
Shaft end	Parallel key
Shaft diameter	19.0 mm
Shaft length	35.0 mm
Feedback type	17 bits magnetic multi turn encoder
Speed feedback resolution	131072 points/turn
Holding brake	With
Holding torque	3.2 N.m
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	2.28 kg.cm <sup>2</sup>
Maximum radial force Fr	392 N
Maximum axial force Fa	147 N
Length	142.1 mm
Number of mounting holes	4
Circle diameter of the mounting holes	6.4 mm
Width	142.1 mm
Height	80 mm
Depth	89.9 mm
Net weight	3.27 kg
Network number of phases	3
Encoder type	Magnetic 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	3.6 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	16.25 kg

## Contractual warranty

Warranty (in months)	18
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## 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	7 380 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	24 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.5 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.6 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]	6 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No

Image of product / Alternate images

Alternative

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