

Product datasheet

Specifications



Servo motor BEH18, Lexium 18,
4.4kW, 380V, M180, 17bit, MAG
MT, brake

BEH18MR4413MF6D

Main

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

Complementary

Maximum mechanical speed	3000.0 rpm
[Us] rated supply voltage	380 V
Network number of phases	Three phase
Continuous stall current	15.6 A
Continuous stall torque	28.4 N.m, 380 V, three phase
Continuous power	4400 W
Peak stall torque	71 N.m, 380 V, three phase
Nominal output power	4400 W, 380 V, three phase
Nominal torque	28.4 N.m, 380 V, three phase
Nominal speed	1500 rpm, 380 V, three phase
Maximum current Irms	37.8 A at 4.4 kW, 380 V
Maximum permanent current	37.8 A
Product compatibility	Motion servo drive motion servo motors motor at 4.4 kW, 380 V, three phase
Shaft end	Parallel key
Second shaft	Without second shaft end
Shaft diameter	35.0 mm
Shaft length	79.0 mm
Key width	10.0 mm
Feedback type	17 bits magnetic multi turn encoder
Speed feedback resolution	131072 points/turn
Holding brake	With
Holding torque	50 N.m
Mounting support	Asian standard flange
Motor flange size	180 mm
Electrical connection	2 connectors male/female

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Torque constant	1.821 N.m/A at 40 °C
Back emf constant	125.24 V/krpm at 40 °C
Number of motor poles	10
Rotor inertia	72.97 kg.cm²
Stator resistance	0.391 Ohm
Maximum radial force Fr	1470 N
Maximum axial force Fa	490 N
Type of cooling	Air-cooled
Length	241 mm
Number of mounting holes	4
Circle diameter of the mounting holes	13.5 mm
Width	241 mm
Height	180 mm
Depth	226.5 mm
Product weight	22.3 kg
Output current 3s peak 2	37.8 A
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	46 cm
Package 1 Width	40 cm
Package 1 Length	60 cm
Package 1 Weight	29.3 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	24 691 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	164 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	4 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	24 478 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	42 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
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Use Again



Repack and remanufacture

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