

Product datasheet

Specifications



Servo motor BEH18, Lexium 18, 2.9kW, 220V, M180, 23bit, OPT MT

BEH18MR2913CA6C

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	220 V
Network number of phases	Single phase
Continuous stall current	18.8 A
Continuous stall torque	18.46 N.m, 220 V, single phase
Continuous power	2900 W
Peak stall torque	55.38 N.m, 220 V, single phase
Nominal output power	2900 W, 220 V, single phase
Nominal torque	18.46 N.m, 220 V, single phase
Nominal speed	1500 rpm, 220 V, single phase
Maximum current Irms	56 A at 2.9 kW, 220 V
Maximum permanent current	56 A
Product compatibility	Motion servo drive motion servo motors motor at 2.9 kW, 220 V, single 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	23 bits optic multi turn encoder
Speed feedback resolution	8388608 points/turn
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	180 mm
Electrical connection	2 connectors male/female
Torque constant	0.982 N.m/A at 40 °C

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

Back emf constant	63.98 V/krpm at 40 °C
Number of motor poles	10
Rotor inertia	46.19 kg.cm ²
Maximum radial force Fr	1470 N
Maximum axial force Fa	490 N
Type of cooling	Air-cooled
Length	172.5 mm
Number of mounting holes	4
Circle diameter of the mounting holes	13.5 mm
Width	172.5 mm
Height	180 mm
Depth	226.5 mm
Product weight	14.3 kg
Network number of phases	3
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	40 cm
Package 1 Width	30 cm
Package 1 Length	31 cm
Package 1 Weight	16.3 kg
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	80 cm
Package 2 Width	60 cm
Package 2 Length	77 cm
Package 2 Weight	136.4 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	12 930 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	105 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	12 793 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	27 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