

# Product datasheet

Specifications



Servo motor BEH18, Lexium 18,  
2.4kW, 380V, M180, 23bit, OPT MT,  
brake

BEH18MR2413CF6D

## 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  | 8.49 A                                                                     |
| Continuous stall torque   | 15.28 N.m, 380 V, three phase                                              |
| Continuous power          | 2400 W                                                                     |
| Peak stall torque         | 45.84 N.m, 380 V, three phase                                              |
| Nominal output power      | 2400 W, 380 V, three phase                                                 |
| Nominal torque            | 15.28 N.m, 380 V, three phase                                              |
| Nominal speed             | 1500 rpm, 380 V, three phase                                               |
| Maximum current Irms      | 25.48 A at 2.4 kW, 380 V                                                   |
| Maximum permanent current | 25.48 A                                                                    |
| Product compatibility     | Motion servo drive motion servo motors motor at 2.4 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             | 23 bits optic multi turn encoder                                           |
| Speed feedback resolution | 8388608 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                       | 1.8 N.m/A at 40 °C       |
| Back emf constant                     | 118.69 V/krpm at 40 °C   |
| Number of motor poles                 | 10                       |
| Rotor inertia                         | 51.94 kg.cm <sup>2</sup> |
| Maximum radial force Fr               | 1470 N                   |
| Maximum axial force Fa                | 490 N                    |
| Type of cooling                       | Air-cooled               |
| Length                                | 217.5 mm                 |
| Number of mounting holes              | 4                        |
| Circle diameter of the mounting holes | 13.5 mm                  |
| Width                                 | 217.5 mm                 |
| Height                                | 180 mm                   |
| Depth                                 | 226.5 mm                 |
| Product weight                        | 17.9 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             | 19.9 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             | 165.2 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                       | 6 296 kg CO2 eq.                              |
| Carbon footprint of the manufacturing phase [A1 to A3] | 131 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 3 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 3 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 6 125 kg CO2 eq.                              |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 33 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                                                                                     |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                 |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

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