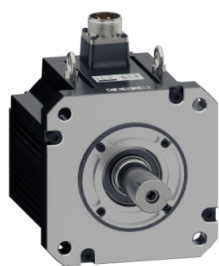


# Product datasheet

Specifications



## Servo motor, Easy Lexium 18, 2.4kW, M180, 23 bits, OPTO INC BK

BCH18MR24132F6C

### Main

|                           |                |
|---------------------------|----------------|
| Range compatibility       | Easy Lexium 18 |
| Device short name         | BCH18          |
| Product or component type | Servo motor    |

### Complementary

|                           |                                   |
|---------------------------|-----------------------------------|
| Maximum mechanical speed  | 3000.0 rpm                        |
| [Us] rated supply voltage | 200...240 V                       |
| Continuous stall current  | 18.2 A                            |
| Continuous stall torque   | 15.1 N.m, 220 V                   |
| Continuous power          | 2400 W                            |
| Peak stall torque         | 45.3 N.m, 220 V                   |
| Nominal output power      | 2400 W, 220 V                     |
| Nominal torque            | 15.1 N.m, 220 V                   |
| Nominal speed             | 1500 rpm, 220 V                   |
| Maximum permanent current | 56.0 A                            |
| Shaft end                 | Parallel key                      |
| Shaft diameter            | 35 mm                             |
| Shaft length              | 79 mm                             |
| Key width                 | 10 mm                             |
| Feedback type             | 23 bits optic incremental encoder |
| Holding brake             | With                              |
| Holding torque            | 40.0 N.m                          |
| Mounting support          | Asian standard flange             |
| Motor flange size         | 180 mm                            |
| Electrical connection     | 2 connectors male/female          |
| Torque constant           | 0.81 N.m/A at 40 °C               |
| Back emf constant         | 53.4 V/krpm at 40 °C              |
| Number of motor poles     | 5.0                               |
| Rotor inertia             | 51.1 kg.cm²                       |
| Stator resistance         | 0.113 Ohm                         |
| Stator inductance         | 2.28 mH                           |

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

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| Maximum radial force Fr               | 1470 N                                      |
| Maximum axial force Fa                | 490 N                                       |
| Length                                | 245.2 mm                                    |
| Number of mounting holes              | 4.0                                         |
| Circle diameter of the mounting holes | 13.5 mm                                     |
| Width                                 | 245.2 mm                                    |
| Height                                | 180.0 mm                                    |
| Depth                                 | 231.2 mm                                    |
| Net weight                            | 22.45 kg                                    |
| Encoder type                          | Optic encoder                               |
| Inertia                               | 51.1 kg.cm² of brake<br>0.0 kg.cm² of motor |

## 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             | 35.4 cm   |
| Package 1 Width              | 30 cm     |
| Package 1 Length             | 40 cm     |
| Package 1 Weight             | 24.32 kg  |
| Unit Type of Package 2       | P06       |
| Number of Units in Package 2 | 8         |
| Package 2 Height             | 105.0 cm  |
| Package 2 Width              | 60.0 cm   |
| Package 2 Length             | 80.0 cm   |
| Package 2 Weight             | 194.56 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                       | 19 368 kg CO2 eq.                             |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |
| Carbon footprint of the manufacturing phase [A1 to A3] | 269 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 3 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0.2 kg CO2 eq.                                |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 19 093 kg CO2 eq.                             |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 4 kg CO2 eq.                                  |

## Use Better



### Materials and Packaging

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                    |
| Packaging without single use plastic   | Yes                                                                                    |
| 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                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |