

# BMH1003T26F1A

servo motor BMH - 8.2 Nm - 6000 rpm -  
untapped shaft - with brake - IP65/IP67



## Main

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Product or component type | Servo motor                                         |
| Device short name         | BMH                                                 |
| Maximum mechanical speed  | 6000 rpm                                            |
| Continuous stall torque   | 8.2 N.m for LXM32.D30M2 10 A at 230 V single phase  |
| Peak stall torque         | 22.8 N.m for LXM32.D30M2 10 A at 230 V single phase |
| Nominal output power      | 1450 W for LXM32.D30M2 10 A at 230 V single phase   |
| Nominal torque            | 5.6 N.m for LXM32.D30M2 10 A at 230 V single phase  |
| Nominal speed             | 2500 rpm for LXM32.D30M2 10 A at 230 V single phase |
| Product compatibility     | LXM32.D30M2 at 230 V single phase                   |
| Shaft end                 | Untapped                                            |
| IP degree of protection   | IP65 (standard)<br>IP67 (with IP67 kit)             |
| Speed feedback resolution | 32768 points/turn                                   |
| Holding brake             | With                                                |
| Mounting support          | International standard flange                       |
| Electrical connection     | Straight connectors                                 |

## Complementary

|                                 |                              |
|---------------------------------|------------------------------|
| Range compatibility             | Lexium 32                    |
| [Us] rated supply voltage       | 240 V                        |
| Network number of phases        | Three phase                  |
| Continuous stall current        | 10 A                         |
| Continuous power                | 2.62 W                       |
| Maximum current Irms            | 30 A for LXM32.D30M2         |
| Maximum permanent current       | 33.85 A                      |
| Second shaft                    | Without second shaft end     |
| Shaft diameter                  | 19 mm                        |
| Shaft length                    | 40 mm                        |
| Feedback type                   | Single turn SinCos Hiperface |
| Holding torque                  | 9 N.m (holding brake)        |
| Motor flange size               | 100 mm                       |
| Number of motor stacks          | 3                            |
| Torque constant                 | 0.851 N.m/A at 120 °C        |
| Back emf constant               | 54.8 V/krpm at 120 °C        |
| Number of motor poles           | 10                           |
| Rotor inertia                   | 10.3 kg.cm <sup>2</sup>      |
| Stator resistance               | 0.47 Ohm at 20 °C            |
| Stator inductance               | 3 mH at 20 °C                |
| Stator electrical time constant | 6.4 ms at 20 °C              |

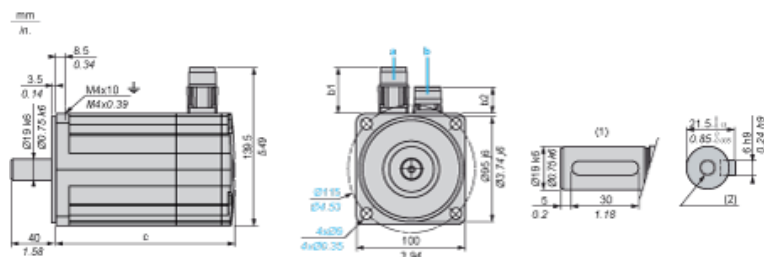
|                                       |                                                                                                        |
|---------------------------------------|--------------------------------------------------------------------------------------------------------|
| Maximum radial force Fr               | 1050 N at 1000 rpm<br>830 N at 2000 rpm<br>730 N at 3000 rpm<br>660 N at 4000 rpm<br>610 N at 5000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                                                                               |
| Brake pull-in power                   | 18 W                                                                                                   |
| Type of cooling                       | Natural convection                                                                                     |
| Length                                | 234.3 mm                                                                                               |
| Centring collar diameter              | 95 mm                                                                                                  |
| Centring collar depth                 | 3.5 mm                                                                                                 |
| Number of mounting holes              | 4                                                                                                      |
| Mounting holes diameter               | 9 mm                                                                                                   |
| Circle diameter of the mounting holes | 115 mm                                                                                                 |
| Product weight                        | 8.15 kg                                                                                                |

### Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0936 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |

## Servo Motors Dimensions

### Example with Straight Connectors



- a: Power supply for servo motor brake
- b: Power supply for servo motor encoder
- (1) Shaft end, keyed slot (optional)
- (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

| Straight connectors |      | Rotatable angled connectors |      | c (without brake) | c (with brake) |
|---------------------|------|-----------------------------|------|-------------------|----------------|
| b1                  | b2   | b1                          | b2   |                   |                |
| 39.5                | 25.5 | 39.5                        | 39.5 | 192               | 234            |

Dimensions in in.

| Straight connectors |      | Rotatable angled connectors |      | c (without brake) | c (with brake) |
|---------------------|------|-----------------------------|------|-------------------|----------------|
| b1                  | b2   | b1                          | b2   |                   |                |
| 1.55                | 1.00 | 1.55                        | 1.55 | 7.55              | 9.21           |

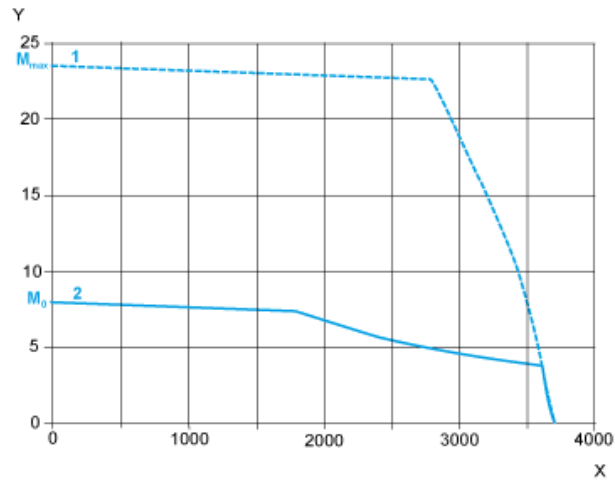
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230 V Single-Phase Supply Voltage

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Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



- X Speed in rpm  
Y Torque in Nm  
1 Peak torque  
2 Continuous torque