

# เอกสารข้อมูลผลิตภัณฑ์

ข้อมูลจำเพาะ



servo motor BMH, Lexium 32,  
2.5Nm, 8000rpm, keyed shaft,  
without brake, IP54, 16bit encoder,  
straight, 3 phases

BMH0702P16A1A

## Main

|                           |                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------|
| Product Or Component Type | Servo motor                                                                                                |
| Device Short Name         | BMH                                                                                                        |
| Maximum Mechanical Speed  | 8000 rpm                                                                                                   |
| Continuous Stall Torque   | 2.5 N.m for LXM32.D12N4 at 3 A, 400 V, three phase<br>2.5 N.m for LXM32.D12N4 at 3 A, 480 V, three phase   |
| Peak Stall Torque         | 7.4 N.m for LXM32.D12N4 at 3 A, 400 V, three phase<br>7.4 N.m for LXM32.D12N4 at 3 A, 480 V, three phase   |
| Nominal Output Power      | 700 W for LXM32.D12N4 at 3 A, 400 V, three phase<br>700 W for LXM32.D12N4 at 3 A, 480 V, three phase       |
| Nominal Torque            | 2.2 N.m for LXM32.D12N4 at 3 A, 400 V, three phase<br>2.2 N.m for LXM32.D12N4 at 3 A, 480 V, three phase   |
| Nominal Speed             | 3000 rpm for LXM32.D12N4 at 3 A, 400 V, three phase<br>3000 rpm for LXM32.D12N4 at 3 A, 480 V, three phase |
| Product Compatibility     | LXM32.D12N4 at 400...480 V three phase                                                                     |
| Shaft End                 | Keyed                                                                                                      |
| Ip Degree Of Protection   | IP54 standard                                                                                              |
| Speed Feedback Resolution | 32768 points/turn                                                                                          |
| Holding Brake             | Without                                                                                                    |
| Mounting Support          | International standard flange                                                                              |
| Electrical Connection     | Straight connectors                                                                                        |

## Complementary

|                           |                              |
|---------------------------|------------------------------|
| Range Compatibility       | Lexium 32                    |
| [Us] Rated Supply Voltage | 480 V                        |
| Network Number Of Phases  | Three phase                  |
| Continuous Stall Current  | 2.94 A                       |
| Continuous Power          | 1.51 W                       |
| Maximum Current Irms      | 9.7 A for LXM32.D12N4        |
| Maximum Permanent Current | 9.68 A                       |
| Second Shaft              | Without second shaft end     |
| Shaft Diameter            | 11 mm                        |
| Shaft Length              | 23 mm                        |
| Key Width                 | 18 mm                        |
| Feedback Type             | Single turn SinCos Hiperface |

การละสิทธิ: เอกสารนี้ไม่มีวัตถุประสงค์เพื่อใช้แทน หรือใช้เพื่อกำหนดความเหมาะสม หรือความน่าเชื่อถือของผลิตภัณฑ์เหล่านี้สำหรับการใช้งานเฉพาะทาง

|                                       |                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Motor Flange Size                     | 70 mm                                                                                                                      |
| Number Of Motor Stacks                | 2                                                                                                                          |
| Torque Constant                       | 0.84 N.m/A at 120 °C                                                                                                       |
| Back Emf Constant                     | 54.08 V/krpm at 120 °C                                                                                                     |
| Number Of Motor Poles                 | 10                                                                                                                         |
| Rotor Inertia                         | 1.13 kg.cm²                                                                                                                |
| Stator Resistance                     | 3.8 Ohm at 20 °C                                                                                                           |
| Stator Inductance                     | 12.2 mH at 20 °C                                                                                                           |
| Stator Electrical Time Constant       | 3.2 ms at 20 °C                                                                                                            |
| Maximum Radial Force Fr               | 710 N at 1000 rpm<br>560 N at 2000 rpm<br>490 N at 3000 rpm<br>450 N at 4000 rpm<br>410 N at 5000 rpm<br>390 N at 6000 rpm |
| Maximum Axial Force Fa                | 0.2 x Fr                                                                                                                   |
| Type Of Cooling                       | Natural convection                                                                                                         |
| Length                                | 154 mm                                                                                                                     |
| Centring Collar Diameter              | 60 mm                                                                                                                      |
| Centring Collar Depth                 | 2.5 mm                                                                                                                     |
| Number Of Mounting Holes              | 4                                                                                                                          |
| Mounting Holes Diameter               | 5.5 mm                                                                                                                     |
| Circle Diameter Of The Mounting Holes | 82 mm                                                                                                                      |
| Net Weight                            | 2.3 kg                                                                                                                     |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type Of Package 1       | PCE     |
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 11.0 cm |
| Package 1 Width              | 20.0 cm |
| Package 1 Length             | 40.0 cm |
| Package 1 Weight             | 2.0 kg  |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

ความยั่งยืน



ฉลาก **Green Premium™** เป็นความมุ่งมั่นของSchneider Electricในการส่งมอบผลิตภัณฑ์ที่มีประสิทธิภาพด้านสิ่งแวดล้อมที่ดีที่สุด Green Premium ให้คำมั่นว่าจะปฏิบัติตามกฎระเบียบล่าสุด ความโปร่งใสต่อผลกระทบด้านสิ่งแวดล้อม รวมถึงผลิตภัณฑ์หมุนเวียนและ CO<sub>2</sub> ต่ำ

คู่มือการประเมินความยั่งยืนของผลิตภัณฑ์เป็นเอกสารวิจัยที่ช่วยชี้แจงมาตรฐานฉลากสิ่งแวดล้อมทั่วโลกและวิธีการตีความการประเมิน

[เรียนรู้เพิ่มเติมเกี่ยวกับ Green Premium >](#)

[แนวทางในการประเมินความยั่งยืนของผลิตภัณฑ์ >](#)



ความโปร่งใส    RoHS/REACH

ประสิทธิภาพด้านสุขภาพ

|                                         |     |
|-----------------------------------------|-----|
| <div>✓</div> Mercury Free               |     |
| <div>✓</div> Rohs Exemption Information | Yes |
| <div>✓</div> Pvc Free                   |     |

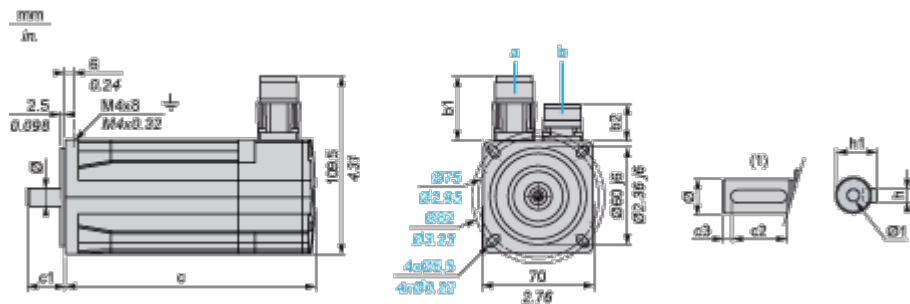
ใบรับรองและมาตรฐาน

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Pro-active compliance (Product out of EU RoHS legal scope)                                                                  |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a>                                                                                      |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>                                                                               |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | No need of specific recycling operations                                                                                    |

## Dimensions Drawings

## 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)

Dimensions in mm

| Dimensions in mm    |      |                             |      |                   |                |    |    |     |      |                              |       |               |
|---------------------|------|-----------------------------|------|-------------------|----------------|----|----|-----|------|------------------------------|-------|---------------|
| Straight connectors |      | Rotatable angled connectors |      | c (without brake) | c (with brake) | c1 | c2 | c3  | h    | h1                           | Ø     | Ø1 for screws |
| b1                  | b2   | b1                          | b2   |                   |                |    |    |     |      |                              |       |               |
| 39.5                | 25.5 | 39.5                        | 39.5 | 154               | 193            | 23 | 18 | 2.5 | 4 h9 | 12.5 <sup>+0</sup><br>- 0.13 | 11 k6 | M4 x 14       |

Dimensions in in.

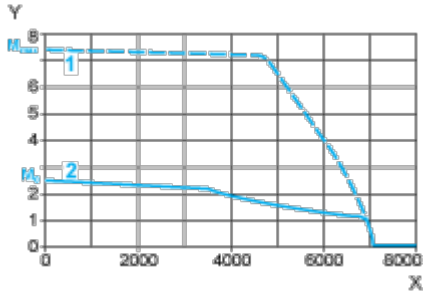
| Straight connectors |    | Rotatable angled connectors |      | c (without brake) | c (with brake) | c1   | c2   | c3   | h       | h1                                | Ø       | Ø1 for screws |
|---------------------|----|-----------------------------|------|-------------------|----------------|------|------|------|---------|-----------------------------------|---------|---------------|
| b1                  | b2 | b1                          | b2   |                   |                |      |      |      |         |                                   |         |               |
| 1.55                | 1  | 1.55                        | 1.55 | 6.06              | 7.59           | 0.90 | 0.70 | 0.09 | 0.16 h9 | 0.49 <sup>+0</sup><br>-<br>0.0051 | 0.43 k6 | M4 x 0.55     |

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32-D12N4 servo drive

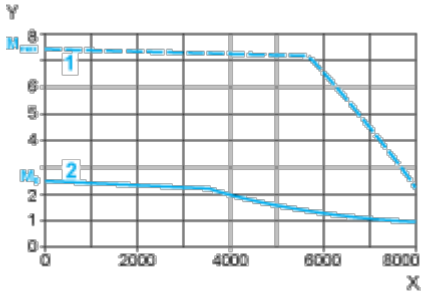


- X    Speed in rpm
- Y    Torque in Nm
- 1    Peak torque
- 2    Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D12N4 servo drive



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