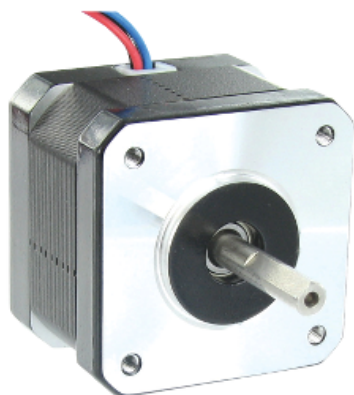


# BRS2421A150

2-phase stepper motor - 0.23 N.m - shaft Ø5 mm -  
L=34mm - without brake - 1.5A



## Main

|                           |                       |
|---------------------------|-----------------------|
| Range compatibility       | Lexium SD2            |
| Product or component type | Motion control motor  |
| Device short name         | BRS2                  |
| Motor type                | 2-phase stepper motor |

## Complementary

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| Maximum mechanical speed              | 1800 rpm                                                          |
| Supply voltage limits                 | 12...48 V DC                                                      |
| Mounting support                      | Flange                                                            |
| Motor flange size                     | 42.3 mm                                                           |
| Length                                | 34 mm                                                             |
| Number of motor stacks                | 1                                                                 |
| Centring collar diameter              | 22 mm                                                             |
| Centring collar depth                 | 2.03 mm                                                           |
| Number of mounting holes              | 4                                                                 |
| Mounting holes diameter               | 3 mm                                                              |
| Circle diameter of the mounting holes | 43.84 mm                                                          |
| Electrical connection                 | Flying lead                                                       |
| Holding brake                         | Without                                                           |
| Shaft end                             | Smooth shaft                                                      |
| Second shaft                          | Without second shaft end                                          |
| Shaft diameter                        | 5 mm                                                              |
| Shaft length                          | 21.85 mm                                                          |
| Holding torque                        | 0.23 N.m                                                          |
| Rotor inertia                         | 0.038 kg.cm <sup>2</sup>                                          |
| Resolution                            | 200 steps number of full steps per revolution<br>1.8 ° step angle |
| [In] rated current                    | 1.5 A                                                             |
| Resistance                            | 1.3 Ohm (winding)                                                 |

## Environment

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| Ambient air temperature for operation | -25...40 °C                            |
| Ambient air temperature for storage   | -25...70 °C                            |
| Operating altitude                    | <= 1000 m without power derating       |
| Relative humidity                     | 15...85 % without condensation         |
| IP degree of protection               | IP20 conforming to IEC/EN 60034-1      |
| Temperature class                     | B winding conforming to IEC/EN 60034-1 |

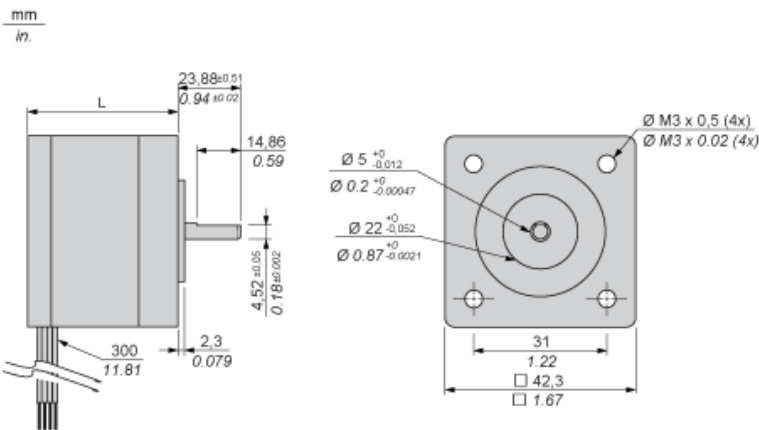
## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                      |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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

Dimensions



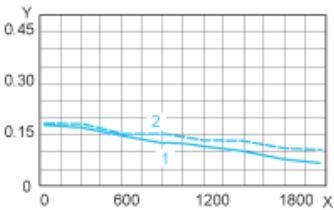
Dimensions in mm

|    |
|----|
| L  |
| 34 |

Dimensions in in.

|      |
|------|
| L    |
| 1.34 |

Torque Characteristics



X : Speed of rotation in rpm  
Y : Torque in Nm  
1 : 24 VDC  
2 : 48 VDC