

# Product datasheet

Specifications



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

BRS2421A150

EAN Code: 3606480211058

! To be discontinued

## 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 1.8 ° step angle
[In] rated current	1.5 A
Resistance	1.3 Ohm (winding)

## Environment

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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	6.000 cm
<b>Package 1 Width</b>	4.500 cm
<b>Package 1 Length</b>	4.500 cm
<b>Package 1 Weight</b>	231.100 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	20
<b>Package 2 Height</b>	23.000 cm
<b>Package 2 Width</b>	24.000 cm
<b>Package 2 Length</b>	33.000 cm
<b>Package 2 Weight</b>	5.136 kg

## Logistical informations

<b>Country of origin</b>	US
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## Contractual warranty

<b>Warranty</b>	18 months
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## 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

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	280
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	No
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Packaging without single use plastic	No
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<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
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REACH Regulation	<a href="#">REACH Declaration</a>
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PVC free	Yes
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## Use Again

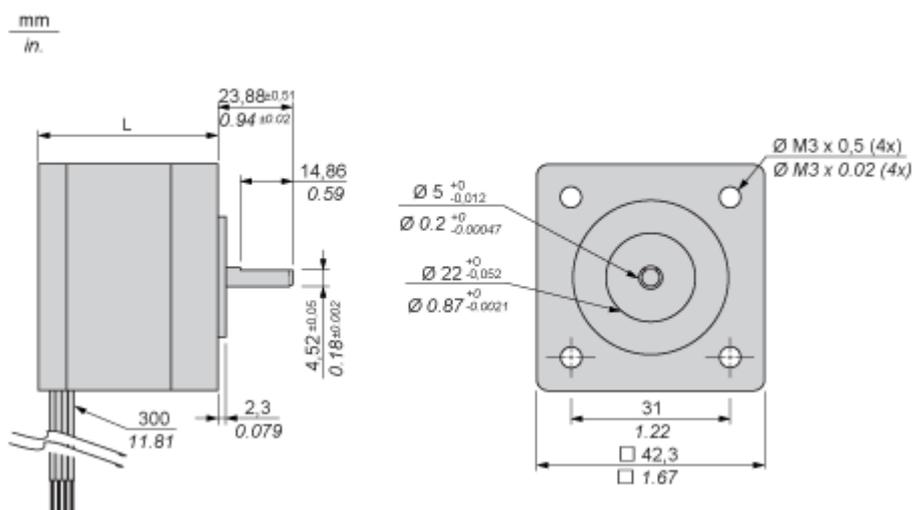
### Repack and remanufacture

Take-back	No
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WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Dimensions Drawings

Dimensions



Dimensions in mm

L
34

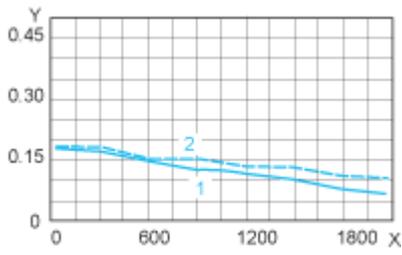
Dimensions in in.

L
1.34

Performance Curves

Torque Characteristics

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X : Speed of rotation in rpm

Y : Torque in Nm

1 : 24 VDC

2 : 48 VDC