

# Product datasheet

Specifications



## 3-phase stepper motor - 6.78 Nm - shaft Ø 12mm

BRS39BWS0571

### Main

Range compatibility	Lexium SD3
Product or component type	Motion control motor
Device short name	BRS3
Maximum mechanical speed	3000 rpm
Motor type	3-phase stepper motor
Number of motor poles	6
Supply voltage limits	230 V AC 325 V DC
Mounting support	Flange
Motor flange size	85 mm
Length	128 mm
Centring collar diameter	73 mm

### Complementary

Centring collar depth	2 mm
Number of mounting holes	4
Mounting holes diameter	6.5 mm
Circle diameter of the mounting holes	98.99 mm
Feedback type	Single turn encoder
Speed feedback resolution	10000 points/turn
Peak stall torque	6 N.m
Continuous stall torque	6 N.m
Holding torque	6 N.m
Rotor inertia	3.3 kg.cm <sup>2</sup>
Resolution	1000 points/turn 1.8 °, 0.9 °, 0.72 °, 0.36 °, 0.18 °, 0.09 °, 0.072 °, 0.036 ° 200, 400, 500, 1000, 2000, 4000, 5000, 10000 steps
Accuracy error	+/- 6 arc min
Maximum starting frequency	5.3 kHz
[In] rated current	2.25 A
Resistance	6.5 Ohm (winding)
Time constant	10 ms

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

<b>Maximum radial force Fr</b>	110 N (first shaft end) 50 N (second shaft end)
<b>Maximum axial force Fa</b>	175 N (tensile force) 30 N (force pressure)
<b>Service life in hours</b>	20000 h (bearing)
<b>Angular acceleration</b>	200000 rad/s <sup>2</sup>
<b>Product weight</b>	4.3 kg

## Environment

<b>Standards</b>	IEC 50347 IEC 60072-1
<b>Type of cooling</b>	Natural convection
<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>Vibration resistance</b>	20 m/s <sup>2</sup> maximum A conforming to IEC 60034-14
<b>IP degree of protection</b>	IP41 shaft bushing: conforming to IEC 60034-5 IP56 total except shaft bushing: conforming to IEC 60034-5
<b>Temperature class</b>	F winding conforming to IEC 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>	22.000 cm
<b>Package 1 Width</b>	19.000 cm
<b>Package 1 Length</b>	40.000 cm
<b>Package 1 Weight</b>	4.500 kg
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	32
<b>Package 2 Height</b>	105.000 cm
<b>Package 2 Width</b>	80.000 cm
<b>Package 2 Length</b>	120.000 cm
<b>Package 2 Weight</b>	164.000 kg

## Contractual warranty

<b>Warranty (in months)</b>	18
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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

Total lifecycle Carbon footprint	2 390 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	112 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 270 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	5 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	549b4cc0-32b9-4639-afcc-41bd53045271
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
PVC free	Yes

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	93
End of life manual availability	<a href="#">No need of specific recycling operations</a>
Take-back	Yes
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins