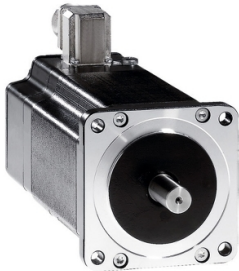


Product datasheet

Specifications



3-phase stepper motor - 4.52Nm -
shaft Ø 9.5mm - L=98 mm - w/o
brake - term box

BRS39AW270ABA

Price: 12,641.84 ZAR

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	141 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
Electrical Connection	Terminal box
Holding Brake	Without
Shaft End	Untapped
Second Shaft	Without second shaft end
Shaft Diameter	9.5 mm
Shaft Length	30 mm
Nominal Torque	4 N.m
Peak Stall Torque	3.82 N.m
Continuous Stall Torque	3.82 N.m
Holding Torque	4.52 N.m
Rotor Inertia	2.2 kg.cm ²
Resolution	1.8 °, 0.9 °, 0.72 °, 0.36 °, 0.18 °, 0.09 °, 0.072 °, 0.036 ° step angle 200, 400, 500, 1000, 2000, 4000, 5000, 10000 steps number of full steps per revolution

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

Accuracy Error	+/- 6 arc min
Maximum Starting Frequency	5.3 kHz
[In] Rated Current	2 A
Resistance	5.8 Ohm (winding)
Time Constant	9 ms
Maximum Radial Force Fr	100 N (first shaft end) 50 N (second shaft end)
Maximum Axial Force Fa	175 N (tensile force) 30 N (force pressure)
Service Life In Hours	20000 h (bearing)
Angular Acceleration	200000 rad/s²
Net Weight	3.2 kg

Environment

Standards	IEC 60072-1 IEC 50347
Type Of Cooling	Natural convection
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
Vibration Resistance	20 m/s² maximum A conforming to IEC 60034-14
Ip Degree Of Protection	IP41 shaft bushing: conforming to IEC 60034-5 IP56 total except shaft bushing: conforming to IEC 60034-5
Temperature Class	F winding conforming to IEC 60034-1

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	22 cm
Package 1 Width	19.5 cm
Package 1 Length	40 cm
Package 1 Weight	4.134 kg
Unit Type Of Package 2	S06
Number Of Units In Package 2	12
Package 2 Height	73.5 cm
Package 2 Width	60 cm
Package 2 Length	80 cm
Package 2 Weight	63.364 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	12
Package 3 Height	77 cm

Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	58.108 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	

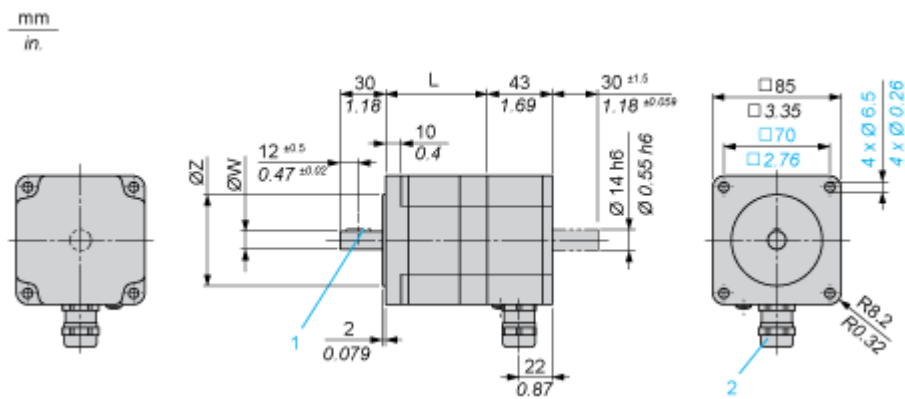
Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
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

Dimensions

3-Phase Stepper Motor in Terminal Box Version



Dimensions in mm

L	Shaft diameter ØW	Centring collar ØZ	Woodruff key DIN 6888 (1)	Cable gland (2)
97.5 (+0.6) (-0.8)	9.5 h6	73 h8	3 x 5	ISO M20 x 1.5

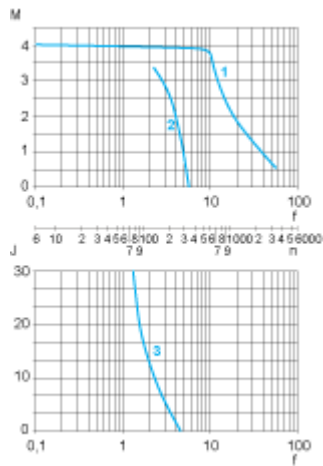
Dimensions in in.

L	Shaft diameter ØW	Centring collar ØZ	Woodruff key DIN 6888 (1)	Cable gland (2)
3.84 (+0.023) (-0.031)	0.37 h6	2.87 h8	0.12 x 0.20	ISO M20 x 1.5

Performance Curves

Torque Characteristics

Measurement at 1000 Steps/Revolution, Nominal Voltage DC Bus U_N and Phase Current I_N



- M : Torque in Nm
- n : Speed in rpm
- f : Frequency in kHz
- J : Rotor inertia in $\text{kg}\cdot\text{cm}^2$
- 1 : Pull-out torque
- 2 : Pull-in torque
- 3 : Maximum load inertia