

3-phase stepper motor - 1.7 Nm - shaft Ã~8mm - L=79 mm - without brake - term box

BRS368W130ABA

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	57.2 mm	
Length	116 mm	
Centring collar diameter	38 mm	

Complementary

centring collar depth	1.6 mm
Number of mounting holes	4
Mounting holes diameter	5.2 mm
Circle diameter of the mounting holes	66.6 mm
Electrical connection	Terminal box
Holding brake	Without
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	8 mm
Shaft length	21 mm
nominal torque	1.5 N.m
Peak stall torque	1.53 N.m
Continuous stall torque	1.53 N.m
Holding torque	1.7 N.m
Rotor inertia	0.38 kg.cm²
Resolution	1.8°, 0.9°, 0.72°, 0.36°, 0.18°, 0.09°, 0.072°, 0.036° step angle

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

Accuracy error	+/- 6 arc min	
Maximum starting frequency	8.5 kHz	
[In] rated current	0.9 A	
Resistance	25 Ohm (winding)	
Time constant	4.6 ms	
Maximum radial force Fr	25 N (second shaft end) 50 N (first shaft end)	
Maximum axial force Fa	100 N (tensile force) 8.4 N (force pressure)	
Service life in hours	20000 h (bearing)	
Angular acceleration	200000 rad/s²	
Net weight	2 kg	

Environment

Standards	IEC 50347 IEC 60072-1	
type of cooling	Natural convection	
Ambient air temperature for operation	-2540 °C	
Ambient air temperature for storage	-2570 °C	
Operating altitude	<= 1000 m without power derating	
Relative humidity	1585 % 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	10.500 cm
Package 1 Width	17.000 cm
Package 1 Length	24.000 cm
Package 1 Weight	1.537 kg
Unit Type of Package 2	P06
Number of Units in Package 2	45
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	82.165 kg

Contractual warranty

Warranty 18 months



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	605
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
PVC free	Yes

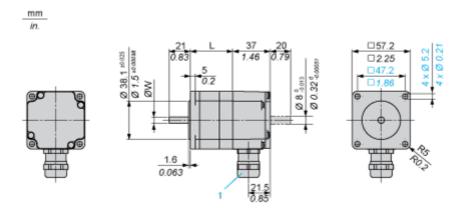
Use Again

○ Repack and remanufacture	
End of life manual availability	No need of specific recycling operations
Take-back	No

Dimensions Drawings

Dimensions

3-Phase Stepper Motor in Terminal Box Version



1: Cable gland M20 x 1.5 for cable Ø 9 ... 13 mm / 0.35 ... 0.51 in.

Dimensions in mm

L	Shaft diameter ØW
79 ±0.5	8 ±0.013

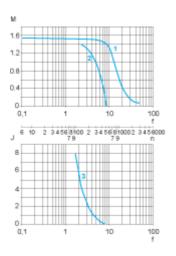
Dimensions in in.

L	Shaft diameter ØW
3.11 ±0.020	0.31 ±0.00051

Performance Curves

Torque Characteristics

Measurement at 1000 Steps/Revolution, Nominal Voltage DC Bus $\mathbf{U_N}$ and Phase Current $\mathbf{I_N}$



M: Torque in Nm

n: Speed in rpm

f: Frequency in kHz

J: Rotor inertia in kg.cm²

1: Pull-out torque

2: Pull-in torque

3: Maximum load inertia