Product data sheet Characteristics

BRS368W130ABA

3-phase stepper motor - 1.7 Nm - shaft Ø8mm - L=79 mm - without brake - term box





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	2.25 in (57.2 mm)
Length	4.57 in (116 mm)
Centring collar diameter	1.50 in (38 mm)

Complementary

Complementary	
Centring collar depth	0.06 in (1.6 mm)
Number of mounting holes	4
Mounting holes diameter	0.20 in (5.2 mm)
Circle diameter of the mounting holes	2.62 in (66.6 mm)
Electrical connection	Terminal box
Holding brake	Without
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	0.31 in (8 mm)
Shaft length	0.83 in (21 mm)
Nominal torque	13.28 lbf.in (1.5 N.m)
Peak stall torque	13.54 lbf.in (1.53 N.m)
Continuous stall torque	13.54 lbf.in (1.53 N.m)
Holding torque	15.05 lbf.in (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 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
Line 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	4.41 lb(US) (2 kg)

Environment

Standards	EN 50347	
	IEC 60072-1	
Type of cooling	Natural convection	
Ambient air temperature for operation	-13104 °F (-2540 °C)	
Ambient air temperature for storage	-13158 °F (-2570 °C)	
Operating altitude	<= 3280.84 ft (1000 m) without power derating	
Relative humidity	1585 % without condensation	
Vibration resistance	20 m/s² maximum	
	A EN/IEC 60034-14	
IP degree of protection	Shaft bushing IP41 EN/IEC 60034-5	
	Total except shaft bushing IP56 EN/IEC 60034-5	
Temperature class	F winding IEC/EN 60034-1	

Ordering and shipping details

18284 - STEPPER MOTORS	
PC55	
03389119223492	
1	
3.53 lb(US) (1.60 kg)	
No	
DE	
	PC55 03389119223492 1 3.53 lb(US) (1.60 kg) No

Packing Units

PCE
4.13 in (10.5 cm)
6.69 in (17 cm)
9.45 in (24 cm)
P06
45
181.15 lb(US) (82.17 kg)
31.50 in (80 cm)
31.50 in (80 cm)
23.62 in (60 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EPEU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₫Yes
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.
PVC free	Yes

Contractual warranty

Warranty	18 months

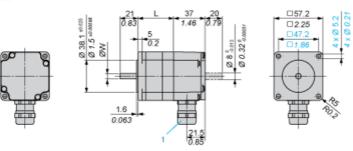
Product data sheet Dimensions Drawings

BRS368W130ABA

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

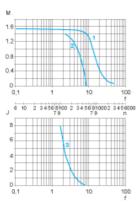
Dimensions in in.

L	Shaft diameter ØW
3.11 ±0.020	0.31 ±0.00051

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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 kg.cm²

1: Pull-out torque2: Pull-in torque

3: Maximum load inertia