Product data sheet Characteristics

BRS368H130AAA

3-phase stepper motor - 1.70 Nm - shaft Ø8 mm - L=79 mm - without brake - wire





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
Number of motor poles Supply voltage limits	6 34 V DC 48 V DC
	34 V DC
Supply voltage limits	34 V DC 48 V DC
Supply voltage limits Mounting Support	34 V DC 48 V DC Flange

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	Flying leads
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)
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	6 kHz
Line Rated Current	5.8 A
Resistance	0.7 Ohm winding)
Time constant	4.6 ms
Maximum radial force Fr	50 N first shaft end) 40 N second 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	Total except shaft bushing IP56 EN/IEC 60034-5
	Shaft bushing without shaft seal ring IP41 EN/IEC 60034-5
Temperature class	F winding IEC/EN 60034-1

Ordering and shipping details

Category	18284-STEPPER MOTORS	
Discount Schedule	PC55	
GTIN	3606485149431	
Nbr. of units in pkg.	1	
Package weight(Lbs)	3.08 lb(US) (1.397 kg)	
Returnability	No	
Country of origin	DE	

Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	4.13 in (10.5 cm)	
Package 1 width	6.69 in (17 cm)	
Package 1 Length	9.65 in (24.5 cm)	
Unit Type of Package 2	P06	
Number of Units in Package 2	36	
Package 2 Weight	130.01 lb(US) (58.972 kg)	
Package 2 Height	30.31 in (77 cm)	
Package 2 width	23.62 in (60 cm)	
Package 2 Length	31.50 in (80 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

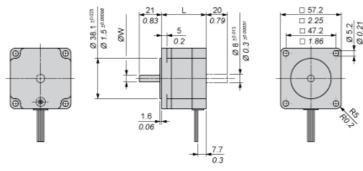
Product data sheet Dimensions Drawings

BRS368H130AAA

Dimensions

3-Phase Stepper Motor in Wire Version





Dimensions in mm

L	Shaft diameter ØW
79 ±0.5	8 ±0.013

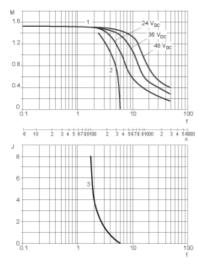
Dimensions in in.

L	Shaft diameter ØW
3.11 ±0.020	0.31 ±0.00051

BRS368H130AAA

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 torque
2: Pull-in torque

3: Maximum load inertia