Product data sheet Characteristics

BRS368H130AAA

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





Main

	6	
		-
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	48 V DC	
	34 V DC	
Mounting support	Flange	
Motor flange size	57.2 mm	
Length	79 mm	
Centring collar diameter	38 mm	
Complementary		

Complementary

Centring collar depth	1.6 mm	ة -
Number of mounting holes	4	T
Mounting holes diameter	5.2 mm	
Circle diameter of the mounting holes	66.6 mm	
Electrical connection	Flying leads	
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	
Holding torque	1.7 N.m	
Rotor inertia	0.38 kg.cm ²	
Resolution	1.8 °, 0.9 °, 0.72 °, 0.36 °, 0.18 °, 0.09 °, 0.072 °, 0.036 ° step angle	
May 4, 2018		

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	
[In] rated current	5.8 A	
Resistance	0.7 Ohm (winding)	
Time constant	4.6 ms	
Maximum radial force Fr	40 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/s ²	
Product weight	2 kg	

Environment

Standards	IEC 60072-1 EN 50347	
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 EN/IEC 60034-14	
IP degree of protection	IP41 for shaft bushing without shaft seal ring conforming to EN/IEC 60034-5 IP56 for total except shaft bushing conforming to EN/IEC 60034-5	
Temperature class	F class winding conforming to IEC/EN 60034-1	

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0623 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
Product end of life instructions	Need no specific recycling operations	

Contractual warranty

Warranty period

18 months

Product data sheet Dimensions Drawings

BRS368H130AAA

Dimensions

3-Phase Stepper Motor in Wire Version

_____ 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	

BRS368H130AAA

Torque Characteristics

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



- M :
- Torque in Nm Speed in rpm n :
- Frequency in kHz f :
- J : Rotor inertia in kg.cm²
- Pull-out torque 1:
- 2: Pull-in torque
- 3: Maximum load inertia