BRS397H360AAA

3-phase stepper motor - 2.26 Nm - shaft \tilde{A}^{\sim} 12 mm - L = 68 mm - w/o 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
Supply voltage limits	34 V AC 48 V DC
Mounting support	Flange
Motor flange size	85 mm
Length	68 mm
Centring collar diameter	60 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	Wires	
Holding brake	Without	
Shaft end	Smooth shaft	
Second shaft	Without second shaft end	
Shaft diameter	12 mm	
Shaft length	30 mm	
Nominal torque	2 N.m	
Holding torque	2.26 N.m	
Rotor inertia	1.1 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	5 kHz	
[ln] rated current	5.8 A	
Resistance	0.35 Ohm (winding)	
Time constant	7 ms	
Maximum radial force Fr	100 N (first shaft end) 75 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	2.1 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	IP56 total except shaft bushing: conforming to IEC 60034-5 IP41 shaft bushing without shaft seal ring: 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	22.0 cm
Package 1 Width	19.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	2.788 kg
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	41.956 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	₫ _{Yes}	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	No need of specific recycling operations	
WEEE	The product must be disposed on European Union markets following specifi waste collection and never end up in rubbish bins	
PVC free	Yes	

Contractual warranty

Warranty	18 months

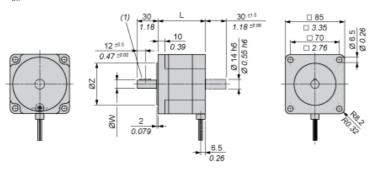
Product data sheet Dimensions Drawings

BRS397H360AAA

Dimensions

3-Phase Stepper Motor in Wires Version





Dimensions in mm

L	Shaft diameter ØW	Centring collar ØZ	Woodruff key DIN 6888 (1)
67.5 (+0.6) (-0.8)	12 h6	60 h8	4 x 6.5

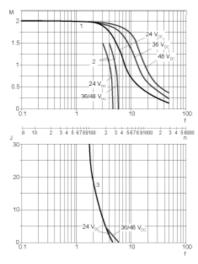
Dimensions in in.

L	Shaft diameter ØW	Centring collar ØZ	Woodruff key DIN 6888 (1)
2.66 (+0.023) (-0.031)	0.47 h6	2.36 h8	0.16 x 0.25

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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