Product data sheet
Characteristics

BRS364H030AAA
3-phase stepper motor - 0.51 Nm - shaft Ø6.35 mm - L=42 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
Supply voltage limits	48 V DC 34 V DC
Mounting support	Flange
Motor flange size	57.2 mm
Length	42 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	Flying leads
Holding brake	Without
Shaft end	Smooth shaft
Second shaft	Without second shaft end
Shaft diameter	6.35 mm
Shaft length	21 mm
Nominal torque	0.45 N.m
Holding torque	0.51 N.m
Rotor inertia	0.1 kg.cm²
Resolution	200, 400, 500, 1000, 2000, 4000, 5000, 10000 steps number of full steps per revolution 1.8 °, 0.9 °, 0.72 °, 0.36 °, 0.18 °, 0.09 °, 0.072 °, 0.036 ° step angle
Accuracy error	+/- 6 arc min
Maximum starting frequency	8.5 kHz
[In] rated current	5.2 A
Resistance	0.42 Ohm (winding)
Time constant	2.1 ms
Maximum radial force Fr	24 N (first shaft end) 40 N (second shaft end)
Maximum axial force Fa	8.4 N (force pressure) 100 N (tensile force)
Service life in hours	20000 h (bearing)
Angular acceleration	200000 rad/s²
Product weight	1.3 kg

Environment

Standards	EN 50347 IEC 60072-1
Type of cooling	Natural convection
Ambient air temperature for operation	-25...40 °C
Ambient air temperature for storage	-25...70 °C
Operating altitude	<= 1000 m without power derating
Relative humidity	15...85 % without condensation
Vibration resistance	A conforming to EN/IEC 60034-14 20 m/s² maximum
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

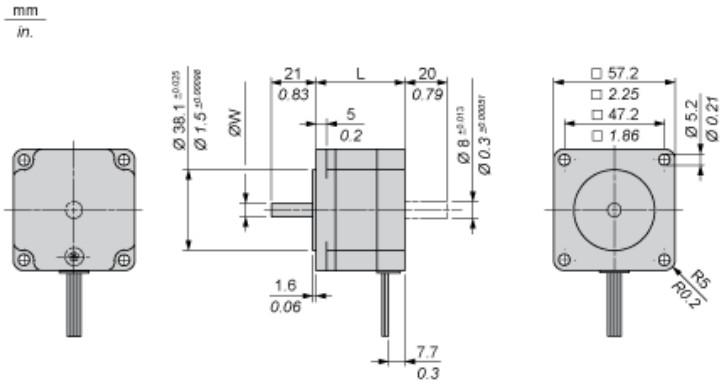
Offer Sustainability

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

BRS364H030AAA

Dimensions

3-Phase Stepper Motor in Wire Version



Dimensions in mm

L	Shaft diameter ØW
42 ±0.5	6.35 ±0.013

Dimensions in in.

L	Shaft diameter ØW
1.65 ±0.020	0.25 ±0.00051

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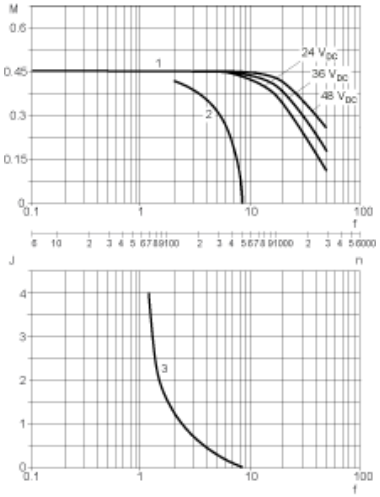
Torque Characteristics

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 $kg.cm^2$
1 : Pull-out torque
2 : Pull-in torque
3 : Maximum load inertia