

Brake BRK29S - Technical Data

Voltage:	24 VDC
Watt:	23.1 W
Brake torque max:	10.2 Nm
Coil Resistance:	24,9 Ohm \pm 10%
Duty Cycle:	100%
Weight:	0.918 kg

Step Motor - Technical Data

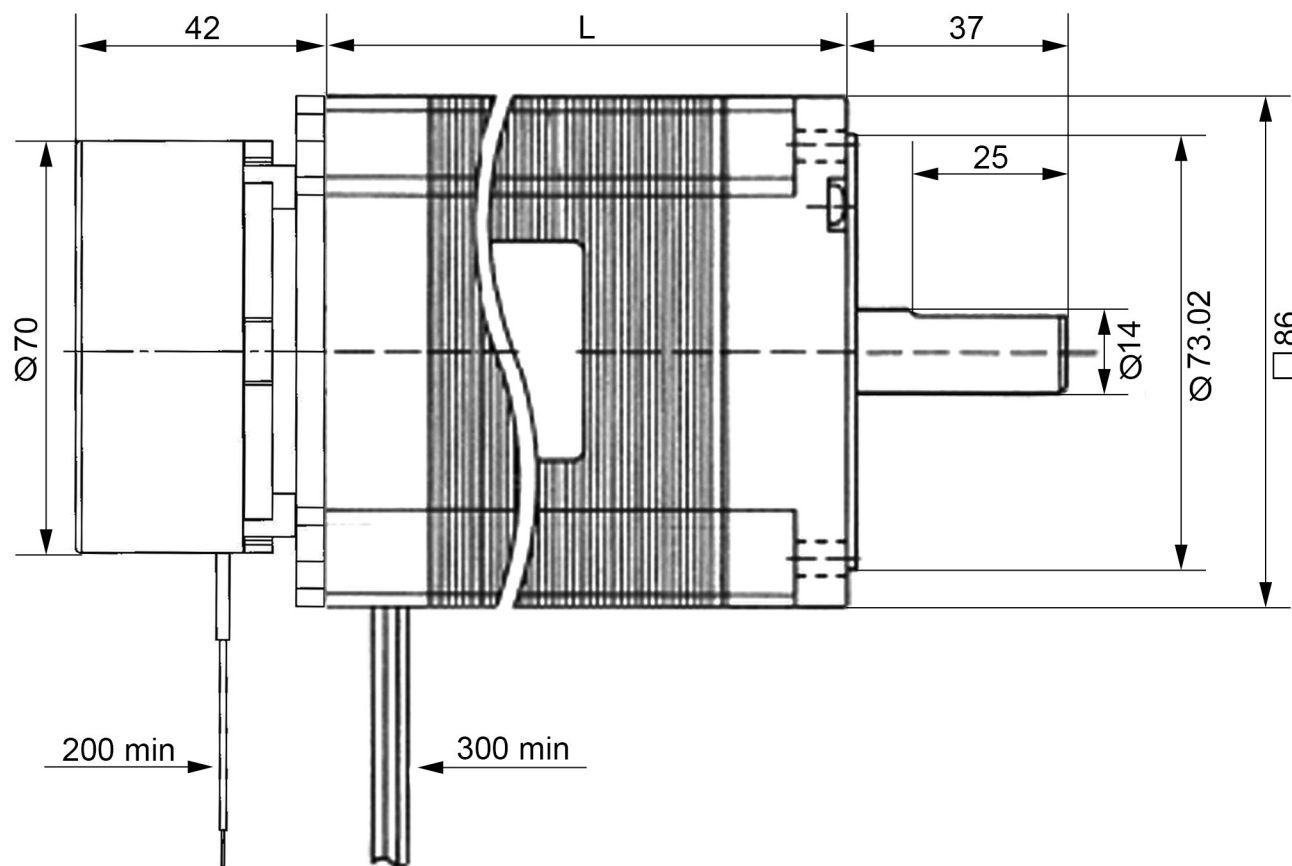
Length (L):

SECM296-E4.5BE	= 79 mm
SECM299-E4.5BE	= 117.5 mm
SECM299-E6.4BE	= 117.5 mm
SECM2913-E4.0BE	= 156 mm
SECM2913-E6.4BE	= 156 mm

Holding Torque:

SECM296-E4.5BE	= 3.7 Nm
SECM299-E4.5BE	= 7.3 Nm
SECM299-E6.4BE	= 6.9 Nm
SECM2913-E4.0BE	= 10.2 Nm
SECM2913-E6.4BE	= 9.8 Nm

further data see Step Motor data sheet



ECMOTION

SECM29-Series

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**Step Motor with
electromagnetic Brake**

Version 06/21

STEPPING MOTORS

□ 86 mm SECM-SPECIFICATIONS

1.8° HIGH-TORQUE 2 PHASE STEPPING MOTOR

Model AE = Single Shaft BE = Double Shaft	● Bipolar Parallel				● Bipolar Serial				● Unipolar				Torque Speed-curve
	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	
SECM296-E4.5 (AE/BE)	3.70	6.4	0.2	1.6	3.70	3.2	0.8	6.4	2.75	4.5	0.4	1.6	(H1)

Number of Leads	Weight of Motor	Size Length	Rotor Inertia
8	2.1 kg	86 x 86 x 79 mm	1600 x 10 ⁻⁷ kgm ²

Resistance / Phase (Ω) = ± 15%, Inductance / Phase (mH) = ± 20%

Model AE = Single Shaft BE = Double Shaft	● Bipolar Parallel				● Bipolar Serial				● Unipolar				Torque Speed-curve
	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	
SECM299-E4.5 (AE/BE)	7.30	6.4	0.3	3.1	7.30	3.2	1.2	12.4	5.40	4.5	0.6	3.1	(I1)
SECM299-E6.4 (AE/BE)	6.90	9.0	0.16*	1.1	6.90	4.5	0.64*	4.4	5.00	6.4	0.32*	1.1	(I2)

Number of Leads	Weight of Motor	Size Length	Rotor Inertia
8	3.5 kg	86 x 86 x 117.5 mm	3200 x 10 ⁻⁷ kgm ²

Resistance / Phase (Ω) = ± 15%, (* ± 20%), Inductance / Phase (mH) = ± 20%

Model AE = Single Shaft BE = Double Shaft	● Bipolar Parallel				● Bipolar Serial				● Unipolar				Torque Speed-curve
	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	Holding Torque [Nm]	Current/Phase [A]	Resistance/Phase [Ohm]	Inductance/Phase [mH]	
SECM2913-E4.0 (AE/BE)	10.20	5.7	0.43	4.6	10.20	2.8	1.7	18.4	7.40	4.0	0.85	4.6	(J1)
SECM2913-E6.4 (AE/BE)	9.80	9.0	0.19*	1.7	9.80	4.5	0.76*	6.8	7.20	6.4	0.38*	1.7	(J2)

Number of Leads	Weight of Motor	Size Length	Rotor Inertia
8	5.0 kg	86 x 86 x 156 mm	4800 x 10 ⁻⁷ kgm ²

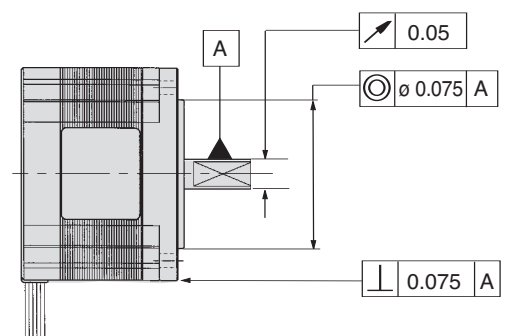
Resistance / Phase (Ω) = ± 15%, (* ± 20%), Inductance / Phase (mH) = ± 20%

SECM29... - Series



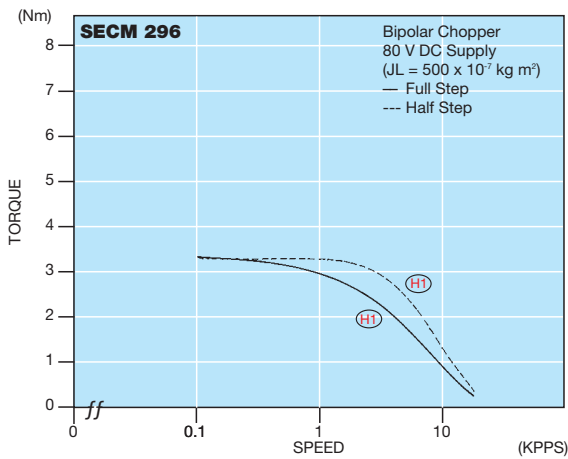
GENERAL SPECIFICATIONS

Items	Specifications
Shaft Runout	0.05 mm Max. T.I.R.
Shaft Radial Play	0.025 mm Max. (0.5 kg)
Shaft Axial Play	0.075 mm Max. (1 kg)
Insulation Resistance	100 M Ω (DC 500 V)
Dielectric Strength	500 V AC (1 Minute)
Insulation Class	CLASS B (130°)
Temperature Rise	80° C MAX. (2 PHASE ON)
Working Temperature	-20° C ~ + 50° C



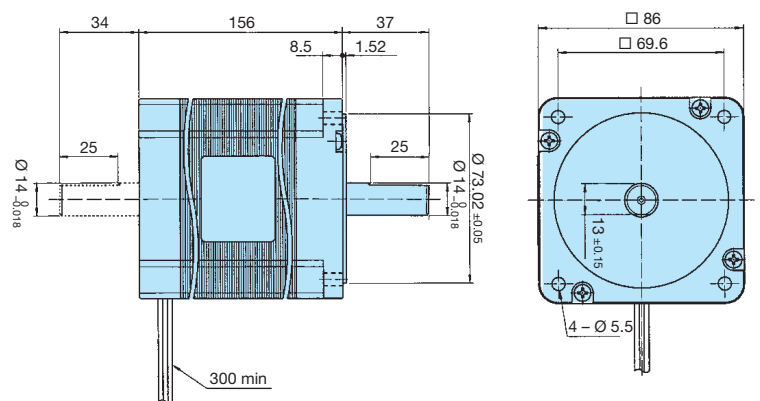
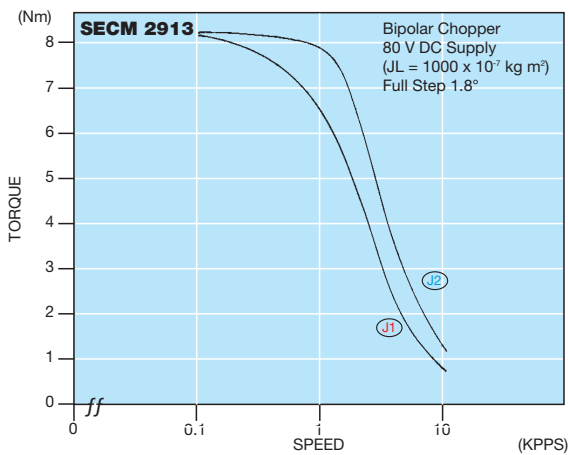
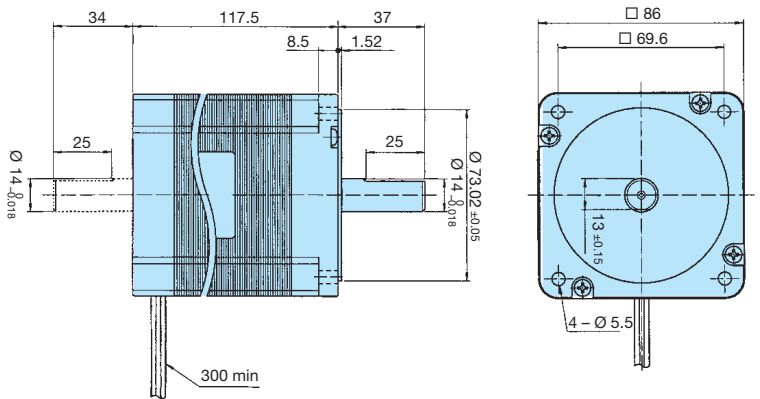
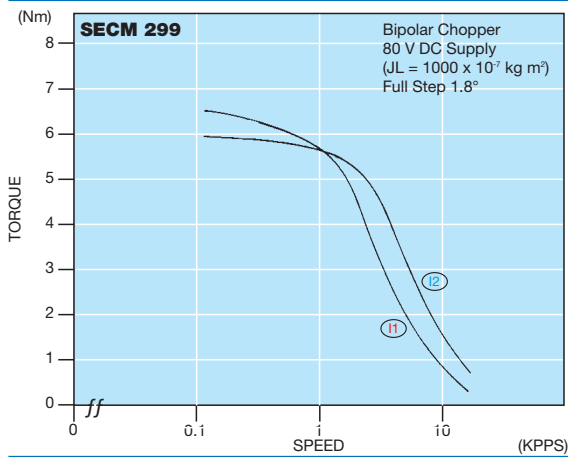
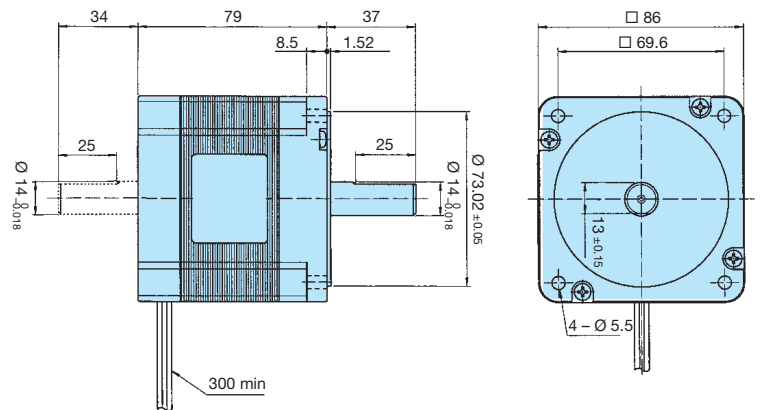
TORQUE VS. SPEED CHARACTERISTIC

Nm/KPPS (1000 PULSE/SECOND)



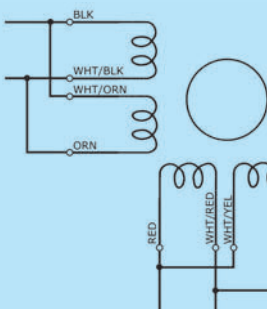
DIMENSIONS

UNIT = mm

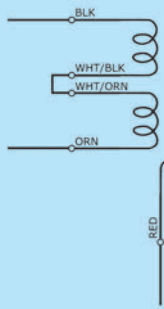


COLOR OF LEAD WIRES

● Bipolar (Parallel)



● Bipolar (Series)



● Unipolar

