

HIGH-PERFORMANCE BRUSHLESS MOTORS Ø30



18V

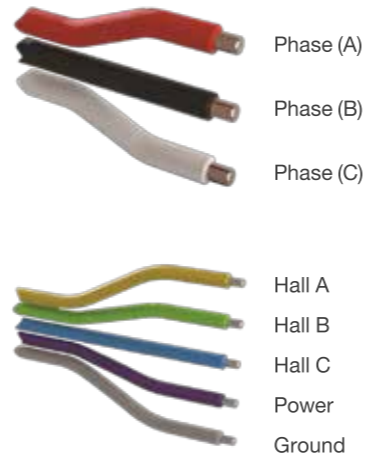
EBL30S1K8A2-18

24V

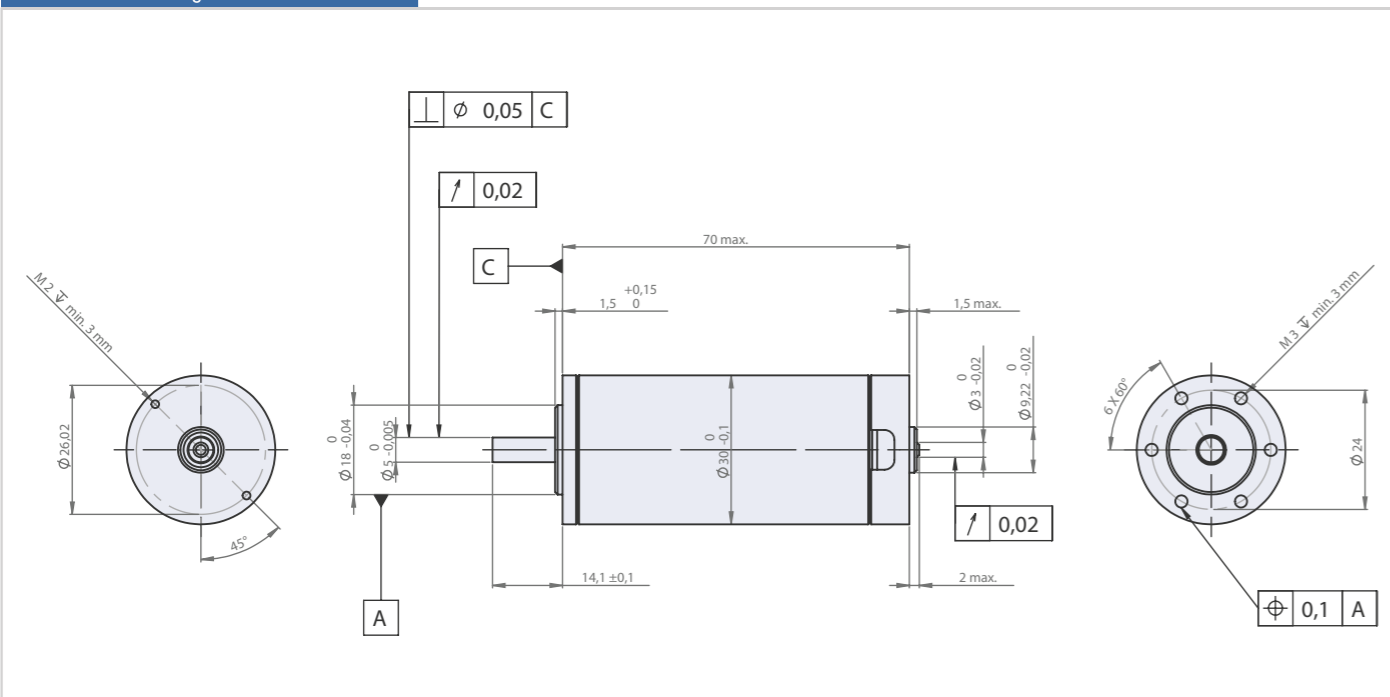
EBL30S1K8A2-24

48V

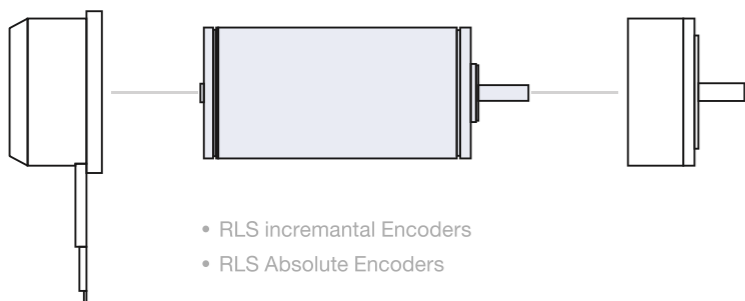
EBL30S0K8A2-48



Dimensional Drawing



Modular System



Product Adaptations

- Other dimensions
- Without housing
- Without hall sensors
- With temperture sensor
- Connector options recording to customer needs

Basic Motor Parameters

		EBL30S1K8A2-18	EBL30S1K8A2-24	EBL30S0K8A2-48
Nominal Speed	RPM	7250	7650	9460
Nominal Power	W	80	90	120
Maximum Continuous Torque	Nm	0.105	0.112	0.121
Nominal Current	A	4.3	3.5	2.4
No-Load Speed	RPM	8675	8890	11000
Efficiency	%	80	82	83
Stall Torque	Nm	0.80	1.04	1.15
Stall Current	A	41.5	42	29

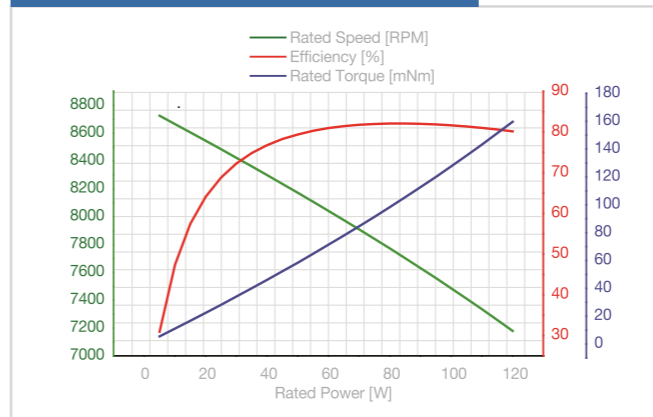
Electrical Characteristics

Number of Phases		3	3	3
Number of Poles		4	4	4
Operating Temperature	°C	-55 >> +85	-55 >> +85	-55 >> +85
Phase-to-Phase Resistance	mΩ	216 ± 10%	352 ± 10%	813 ± 10%
Phase-to-Phase Inductance	mH	0.063 ± 10%	0.107 ± 10%	0.281 ± 10%
Rated-Torque Constant	mNm/A	18.8 ± 10%	24.7 ± 10%	40 ± 10%
Back -EMF Constant	Vs/rad	19.9 ± 10%	25.9 ± 10%	41.9 ± 10%
Dielectric Strength at 1000V	MΩ	500 (min.)	500 (min.)	500 (min.)

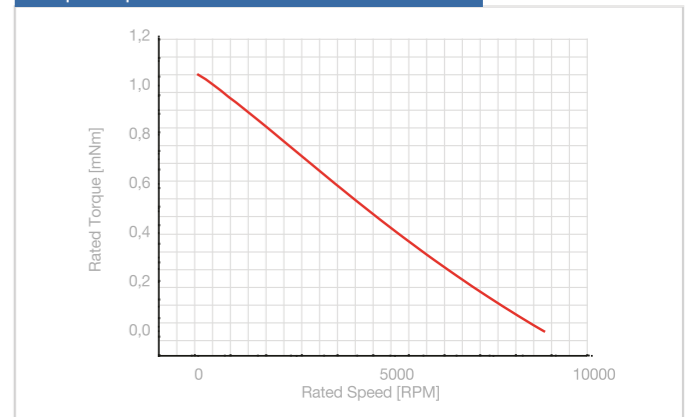
Physical Characteristics

Service Life	h	18000	18000	17000
Weight	g	350 ± 10%	350 ± 10%	350 ± 10%
Length	mm	70 (max.)	70 (max.)	70 (max.)
Outer Diameter	mm	30 (max.)	30 (max.)	30 (max.)
Shaft Diameter	mm	5	5	5
Bearing		NSK Ball Bearing	NSK Ball Bearing	NSK Ball Bearing

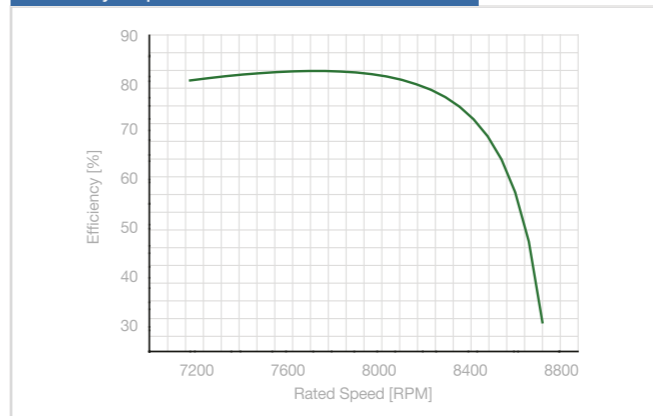
Performance Chart @48V



Torque – Speed Chart @48V



Efficiency – Speed Chart @48V



Power – Speed Chart @48V

