

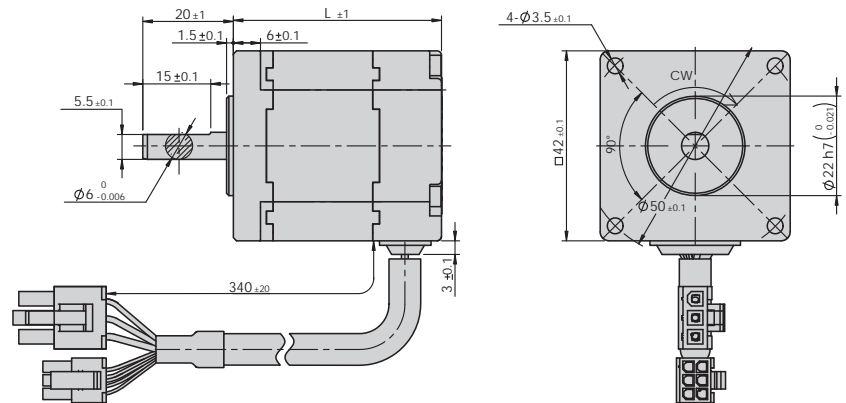
# □ 42 BLDC Motor

## ■ Technical Specification

	Units	Type					
		42BL30L2	42BL30L4	42BL60L2	42BL60L4	42BL90L2	42BL90L4
Long	mm	46	46	70	70	100	100
Input power	VDC	24	48	24	48	24	48
Rated power	W	30	30	60	60	90	90
Phase number		3					
Rated speed	RPM	4000	4000	4000	4000	4000	4000
Max. speed	RPM	5000	5000	5000	5000	5000	5000
Rated torque	Nm	0.072	0.072	0.144	0.144	0.215	0.215
Max. torque	Nm	0.144	0.144	0.288	0.288	0.43	0.43
Rated current	A	1.67	0.81	3.28	1.63	4.92	2.40
Max. current	A	3.34	1.62	6.56	3.26	9.84	4.80
Voltage constant	Vrms/Krpm	2.95	6.13	3.00	6.00	3.00	6.10
Torque constant	Nm/Arms	0.043	0.089	0.044	0.088	0.044	0.089
Moment of inertia	10 <sup>-4</sup> kgm <sup>2</sup>	0.0388	0.0388	0.072	0.072	0.114	0.114
Resistance	Ω	1.34	5.92	0.68	2.62	0.40	1.47
Inductance	mH	1.15	5.00	0.60	2.50	0.37	1.57
Sensor		Hall					
Ins.class		E					
Protective rating		IP40					
Operating temperature		0~ + 50°C					
Storage temperature		-25~+70°C					
Operating RH		85% RH or below (noncondensing))					
Operating environment		Outdoor (no direct sunlight), no corrosive gas, no flammable gas, no oil mist, no dust					
Altitude		1000m or below					

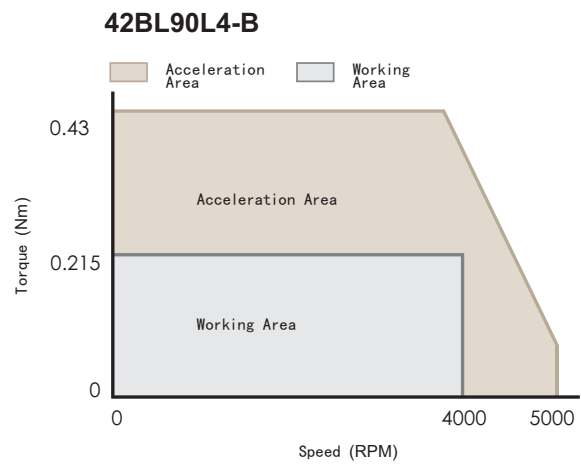
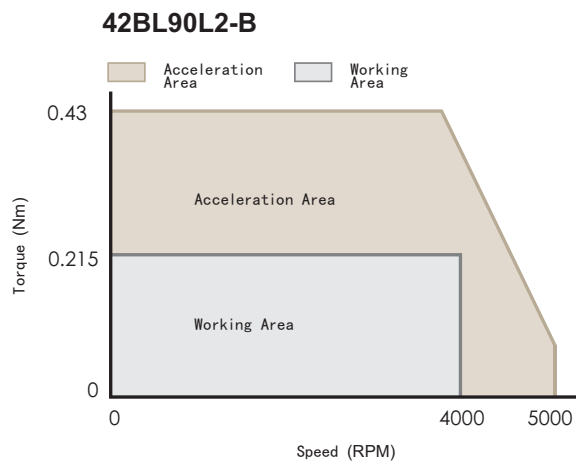
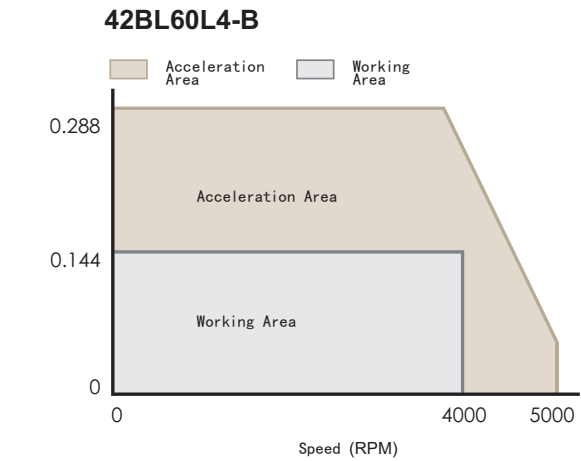
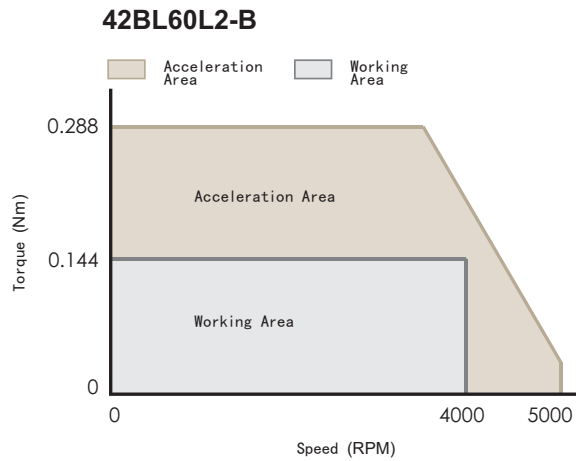
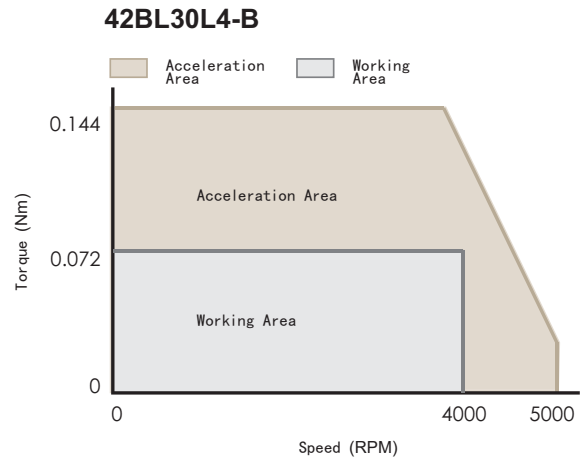
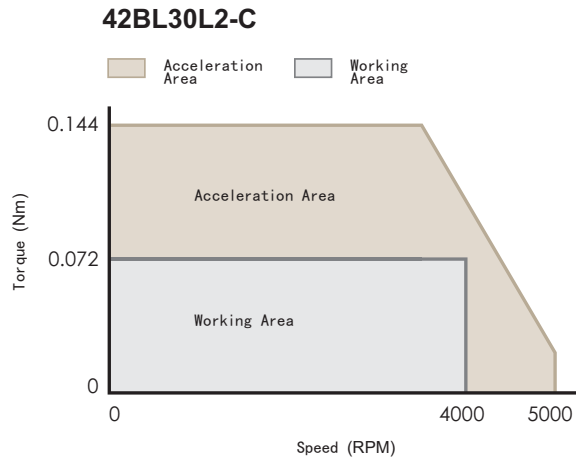
## ■ Mechanical Dimension

Series	L
	mm
42BL30	46
42BL60	70
42BL90	100



Unit: mm

**Torque - Speed Features**



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

80 BLDC Motors

Introduction of BLDC Geared Motors

MGB042 - □A

MGB060 - □A

MGB080 - □A

Termination Specification