

Introduction of BLDC Motors

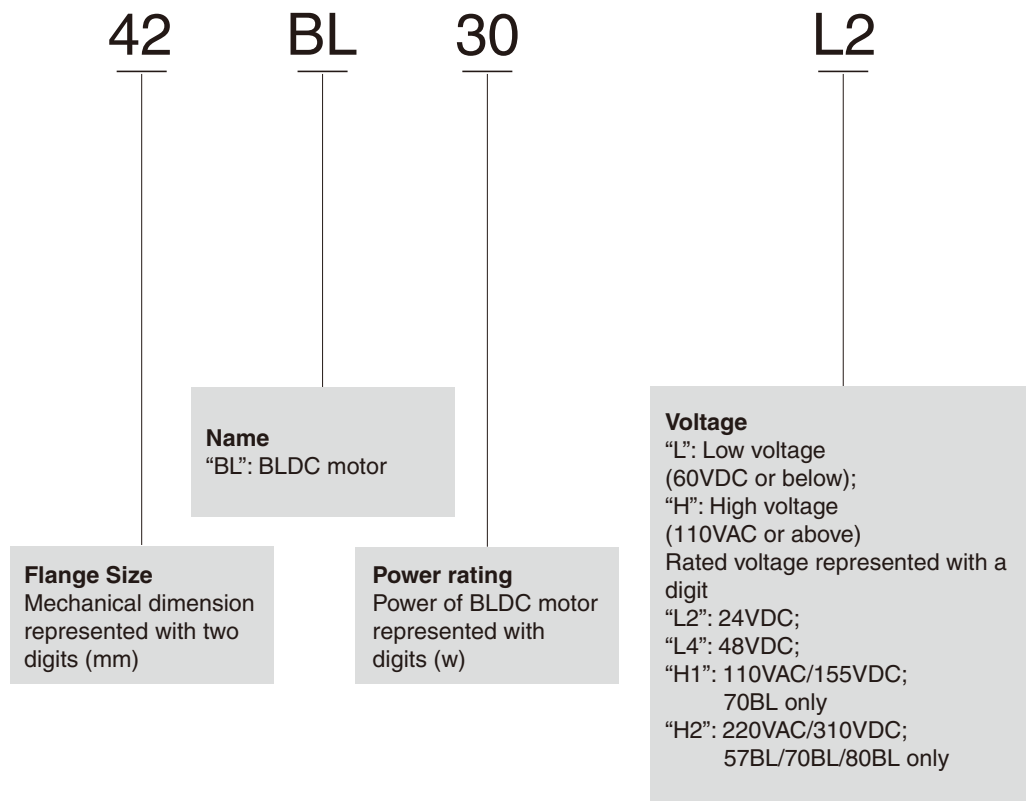
Characteristics

- Wide range of speed control and smooth torque output
- Excellent speed stability
- Small size, high power
- Low temperature rise, low noise, low vibration
- Long life, low maintenance costs
- Low positioning torque
- Energy efficient

Applications

- Mechanical automation (textile machines)
- Financial automation (ATM)
- Office equipment (printer)
- Solar energy equipment
- Drive system
- Speed setting and regulation devices in various industries
- Automotive On-board equipment
- Pump (metering pump)
- Food industry
- Sorting equipment

Model Numbering System



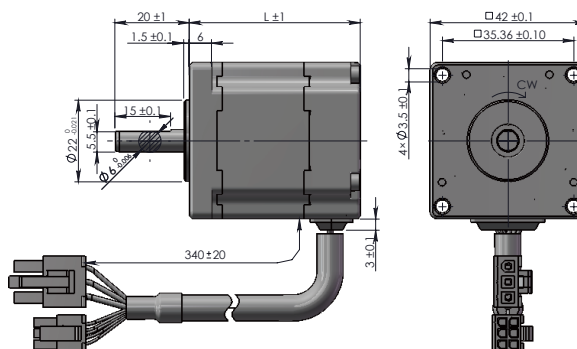
42BLDC Motors

Technical Specification

	Units	Type					
		42BL30L2	42BL30L4	42BL60L2	42BL60L4	42BL90L2	42BL90L4
Length	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
Pole-pair number		3					
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 ⁻⁴ kgm ²	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 (non-condensing)					
Operating environment		Outdoor (no direct sunlight), no corrosive gas, no flammable gas, no oil mist, no dust					
Altitude		1000m or below					

Mechanical Dimension Unit: mm

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



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57 BLDC Motors

70 BLDC Motors

80 BLDC Motors

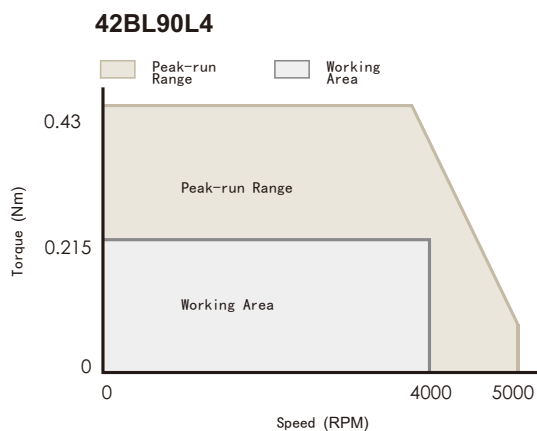
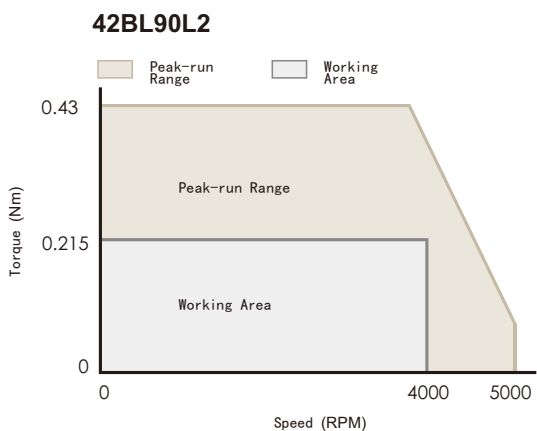
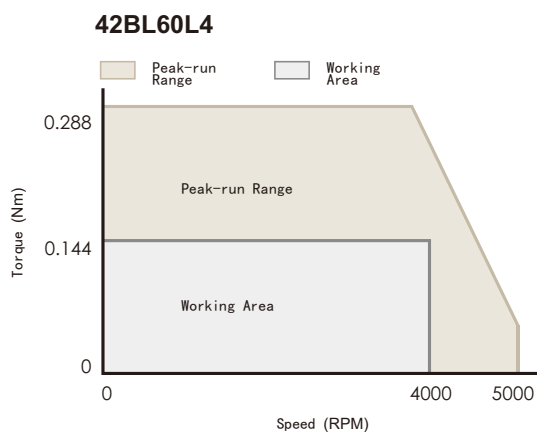
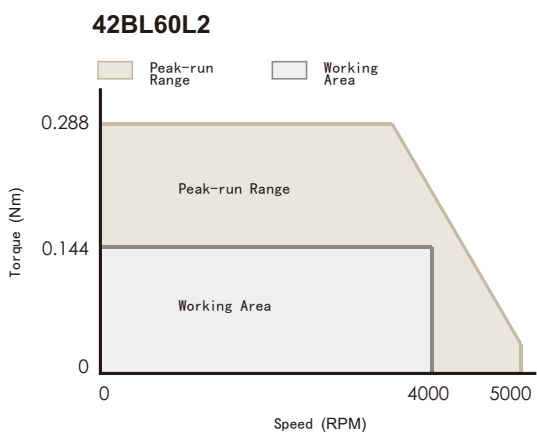
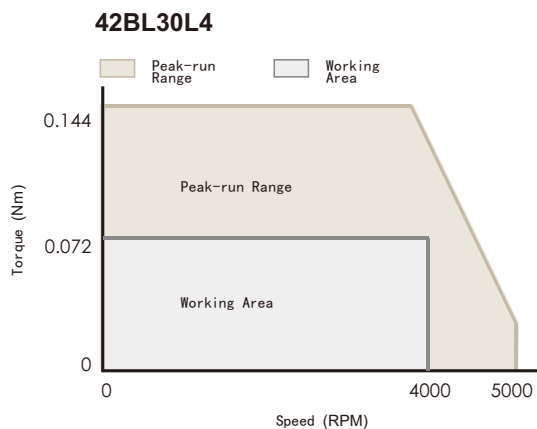
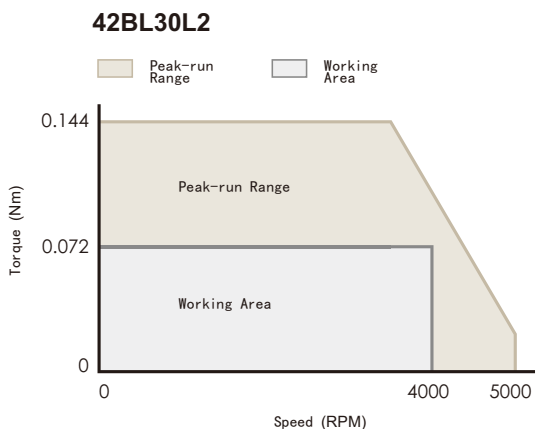
Round BLDC Motors

R42BL

R57BL

Connector Specification

Torque - Speed Features



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