

BLDC MOTORS



MOONS'
moving in better ways



Catalog

Introduction of BLDC Motors	01
□42BLDC Motors	02
□57BLDC Motors	04
□65BLDC Motors	06
□70BLDC Motors	07
□80BLDC Motors	08
□85BLDC Motors	10
Round BLDC Motors	11
R16BLDC Motors	12
R22BLDC Motors	13
R30BLDC Motors	14
R36BLDC Motors	15
R42BLDC Motors	17
R57BLDC Motors	19
Connector Specification	21

Introduction of BLDC Motors

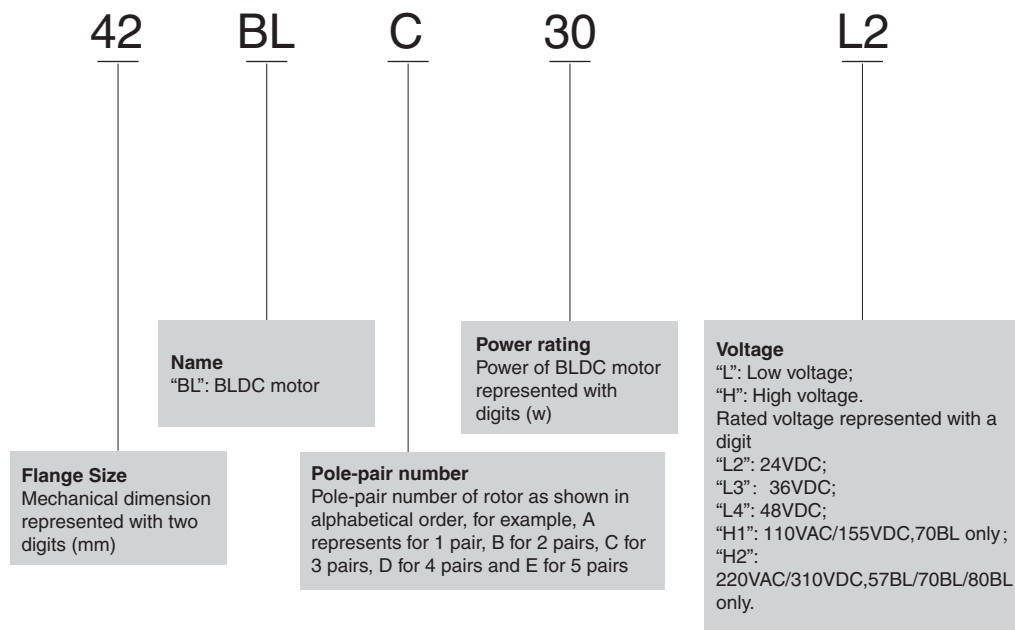
Characteristics

- 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

Introduction of
BLDC Motors42
BLDC Motors57
BLDC Motors65
BLDC Motors70
BLDC Motors80
BLDC Motors85
BLDC MotorsRound
BLDC MotorsR16
BLDC MotorsR22
BLDC MotorsR30
BLDC MotorsR36
BLDC MotorsR42
BLDC MotorsR57
BLDC MotorsConnector
Specification

42BLDC Motors

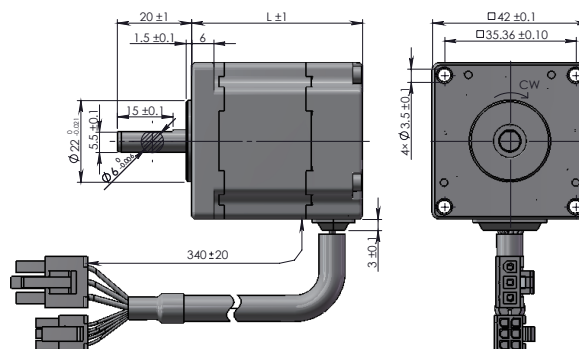
Technical Specification

	Units	Type					
		42BLC30L2	42BLC30L4	42BLC60L2	42BLC60L4	42BLC90L2	42BLC90L4
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	0.216	0.216	0.432	0.432	0.645	0.645
Rated current	A	1.67	0.81	3.28	1.63	4.92	2.40
Max. current	A	5.01	2.43	9.84	4.89	14.76	7.20
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		B					
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					

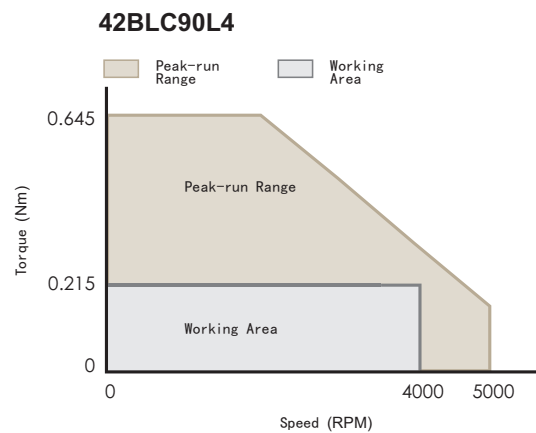
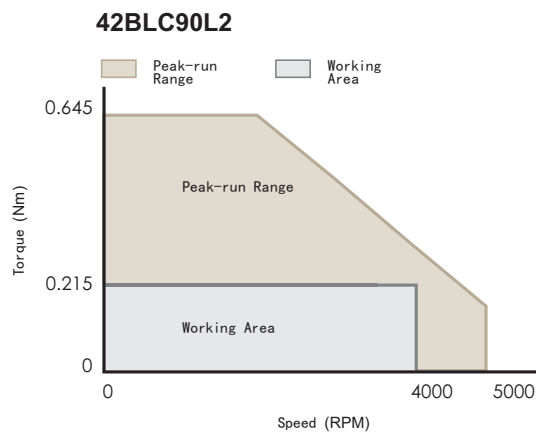
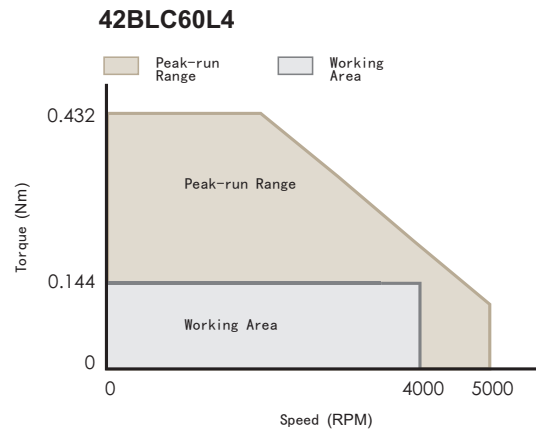
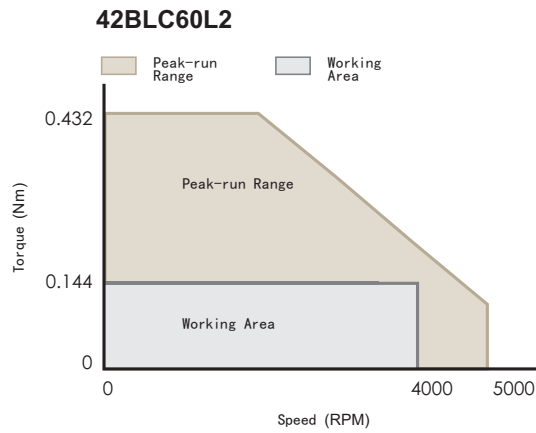
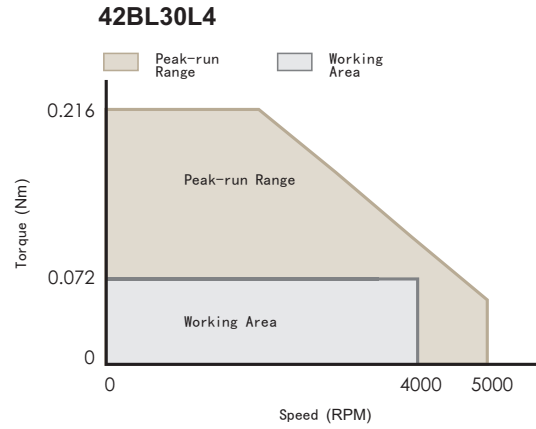
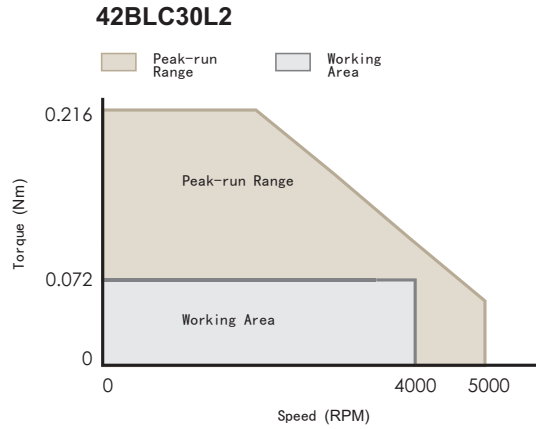
Mechanical Dimension

Unit: mm

IP40 Series	L
	mm
42BL30	46
42BL60	70
42BL90	100



Torque - Speed Features



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

Connector Specification

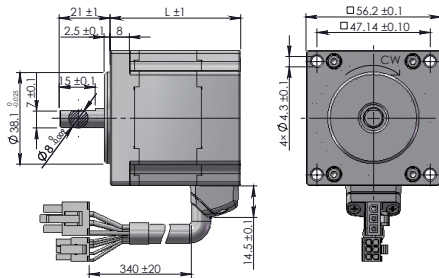
57BLDC Motors

Technical Specification

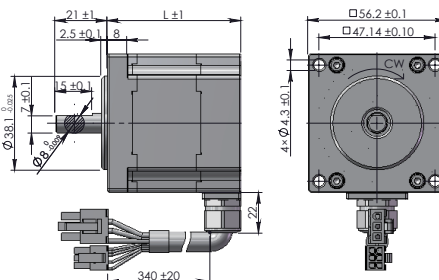
	Units	Type										
		57BLD30L2	57BLD30L4	57BLD60L2	57BLD60L4	57BLD60H2	57BLD120L2	57BLD120L4	57BLD120H2	57BLD180L2	57BLD180L4	57BLD180H2
Length	mm	41.5	41.5	54.5	54.5	54.5	82.5	82.5	82.5	120.5	120.5	120.5
Input power	VDC	24	48	24	48	310	24	48	220	24	48	310
Rated power	W	30	30	60	60	60	120	120	120	180	180	180
Pole-pair number		4										
Phase number		3										
Rated speed	RPM	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Max. speed	RPM	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Rated torque	Nm	0.072	0.072	0.145	0.145	0.145	0.29	0.29	0.29	0.43	0.43	0.43
Max. torque	Nm	0.216	0.216	0.435	0.435	0.435	0.87	0.87	0.87	1.29	1.29	1.29
Rated current	A	1.71	0.86	3.20	1.60	0.25	6.90	3.00	0.46	10.50	4.50	0.70
Max. current	A	5.13	2.58	9.6	4.8	0.75	20.7	9	1.38	31.5	13.5	2.1
Voltage constant	Vrms/Krpm	3	6.45	3.08	6.35	41.00	3.00	6.40	41.30	3.00	6.45	41.65
Torque constant	Nm/Arms	0.042	0.084	0.045	0.090	0.580	0.042	0.097	0.626	0.041	0.096	0.620
Moment of inertia	10 ⁻⁴ kgm ²	0.087	0.087	0.148	0.148	0.148	0.279	0.279	0.279	0.456	0.456	0.456
Resistance	Ω	0.71	3.25	0.48	1.80	75.00	0.18	0.76	31.7	0.11	0.44	18.35
Inductance	mH	0.71	3.25	0.45	1.90	79.20	0.18	0.84	35.04	0.11	0.54	22.52
Sensor		Hall										
Ins.class		B										
Protective rating		IP40/IP65										
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

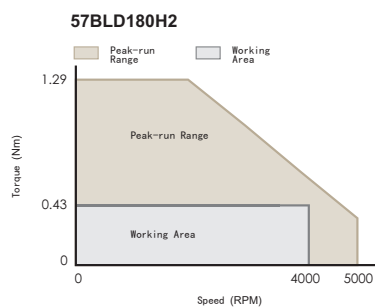
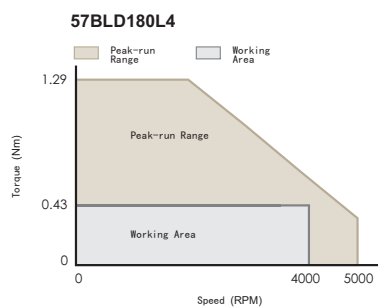
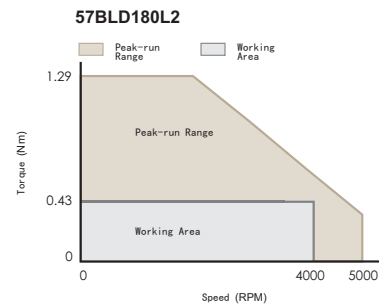
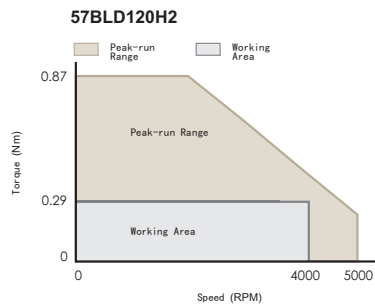
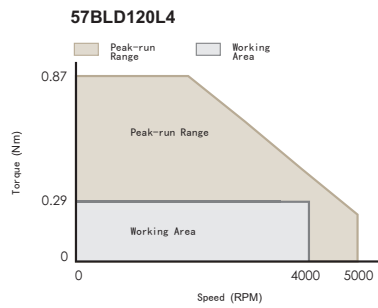
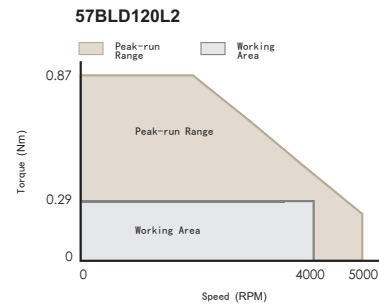
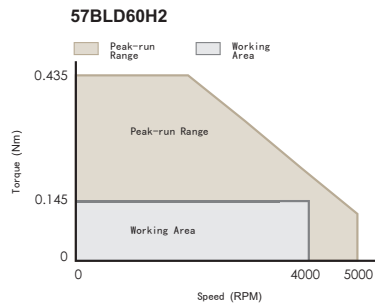
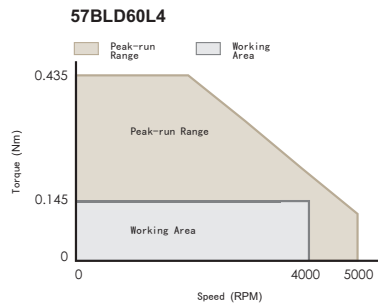
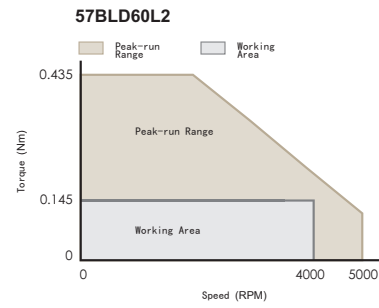
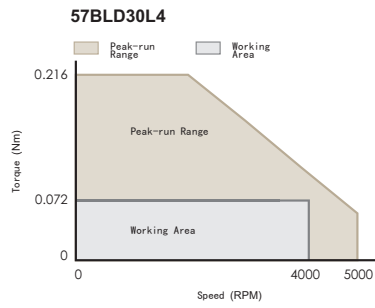
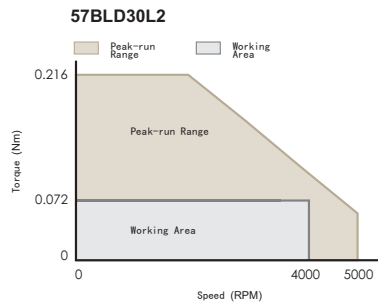
IP40 Series	L
	mm
57BL30	41.5
57BL60	54.5
57BL120	82.5
57BL180	120.5



IP65 Series	L
	mm
57BL30	51.5
57BL60	64.5
57BL120	92.5
57BL180	130.5



Torque - Speed Features



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

Connector Specification

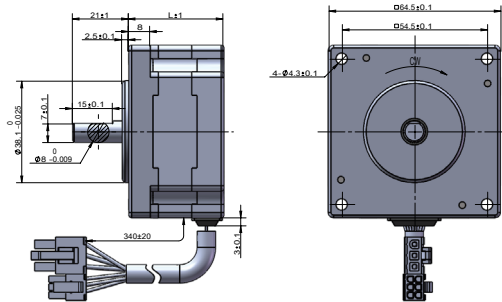
65BLDC Motors

Technical Specification

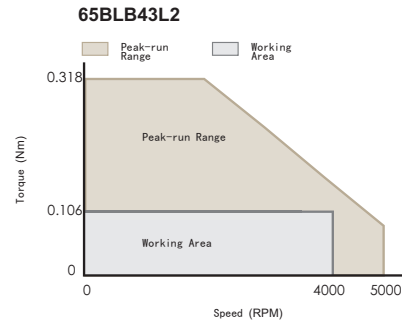
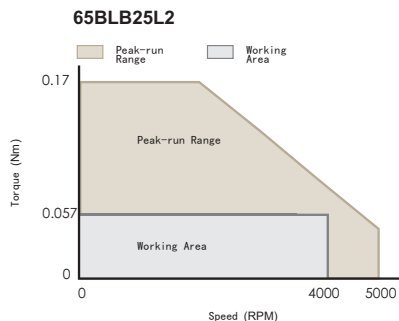
	Units	Type	
		65BLB25L2	65BLB43L2
Length	mm	35.5	44.5
Input power	VDC	24	24
Rated power	W	25.4	42.7
Pole-pair number		2	
Phase number		3	
Rated speed	RPM	4300	3850
Max. speed	RPM	5950	5500
Rated torque	Nm	0.057	0.106
Max. torque	Nm	0.170	0.318
Rated current	A	1.40	2.39
Max. current	A	4.20	7.17
Voltage constant	Vrms/Krpm	2.7	3.2
Torque constant	Nm/Arms	0.04	0.04
Moment of inertia	10 ⁻⁴ kgm ²		
Resistance	Ω	0.77	0.37
Inductance	mH	1.65	1.00
Sensor		Hall	
Ins. class		B	
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

IP40 Series	L	
	mm	
65BLB25L2	35.5	
65BLB43L2	44.5	



Torque - Speed Features



70BLDC Motors

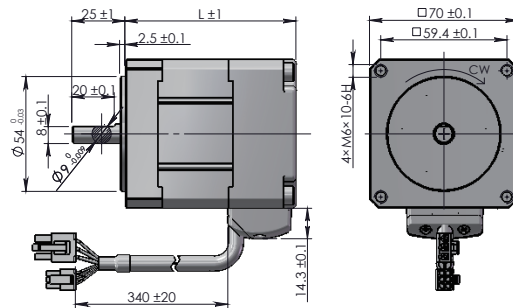
Technical Specification

	Units	Type	
		70BLB200H1	70BLB200H2
Length	mm	81	81
Input power	VDC	155	310
Rated power	W	200	200
Pole-pair number		2	
Phase number		3	
Rated speed	RPM	4000	4000
Max. speed	RPM	5000	5000
Rated torque	Nm	0.48	0.48
Max. torque	Nm	1.44	1.44
Rated current	A	2.76	1.83
Max. current	A	8.28	5.49
Voltage constant	Vrms/Krpm	15.30	19.30
Torque constant	Nm/Arms	0.17	0.26
Moment of inertia	10 ⁻⁴ kgm ²	0.50	0.50
Resistance	Ω	1.50	2.60
Inductance	mH	8.00	12.70
Sensor		Hall	
Ins.class		B	
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		1000 m or below	

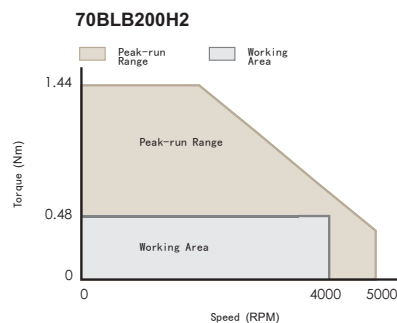
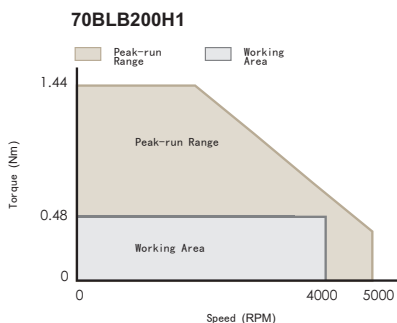
Mechanical Dimension

Unit: mm

IP40 Series	L
	mm
70BLB200	81



Torque - Speed Features



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

Connector Specification

80BLDC Motors

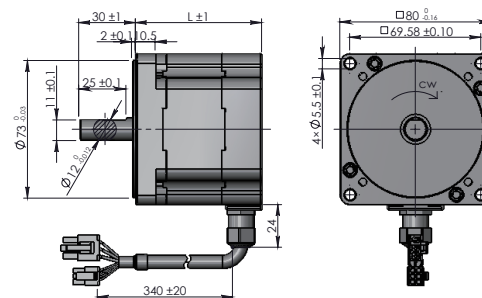
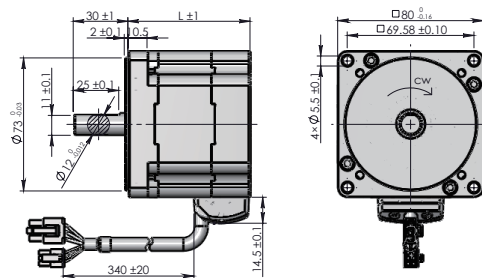
Technical Specification

	Units	Type								
		80BLD100L2	80BLD100L4	80BLD100H2	80BLD200L2	80BLD200L4	80BLD200H2	80BLD300L2	80BLD300L4	80BLD300H2
Length	mm	50	50	50	67	67	67	84	84	84
Input power	VDC	24	48	310	24	48	310	24	48	310
Rated power	W	100	100	100	200	200	200	300	300	300
Pole-pair number		4								
Phase number		3								
Rated speed	RPM	4000	4000	4000	4000	4000	4000	3000	4000	4000
Max. speed	RPM	4500	4500	4500	4500	4500	4500	4000	4500	4500
Rated torque	Nm	0.24	0.24	0.24	0.48	0.48	0.48	0.72	0.72	0.72
Max. torque	Nm	0.72	0.72	0.72	1.44	1.44	1.44	2.16	2.16	2.16
Rated current	A	5.00	2.43	0.37	10.10	5.06	1.83	12.00	7.49	1.16
Max. current	A	15.00	7.29	1.11	30.30	15.18	5.49	36.00	22.47	3.48
Voltage constant	Vrms/Krpm	3.44	6.88	44.40	3.38	6.76	38.70	4.53	7.03	45.40
Torque constant	Nm/Arms	0.048	0.099	0.640	0.048	0.095	0.260	0.060	0.096	0.620
Moment of inertia	10 ⁻⁴ kgm ²	0.38	0.38	0.38	0.74	0.74	0.74	1.08	1.08	1.08
Resistance	Ω	0.18	0.71	29.60	0.08	0.32	2.60	0.07	0.20	8.32
Inductance	mH	0.34	1.35	56.30	0.18	0.70	12.70	0.19	0.47	19.58
Sensor		Hall								
Ins.class		B								
Protective rating		IP40/IP55								
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		1000 m or below								

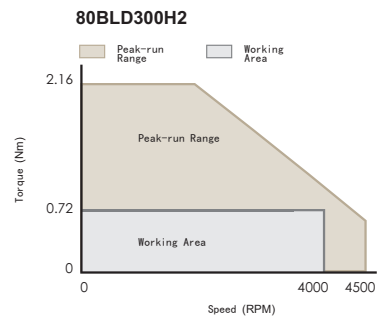
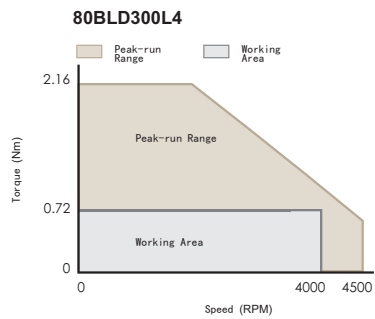
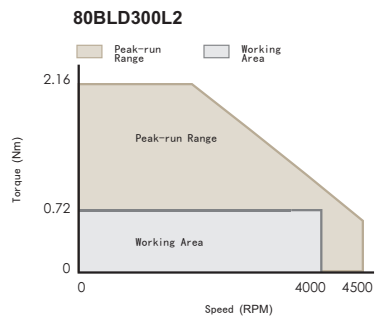
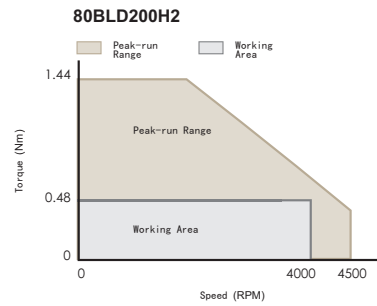
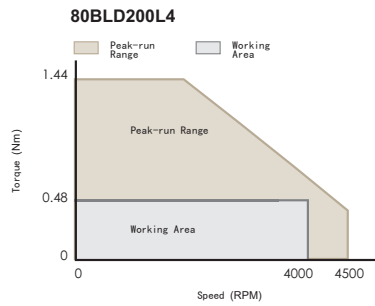
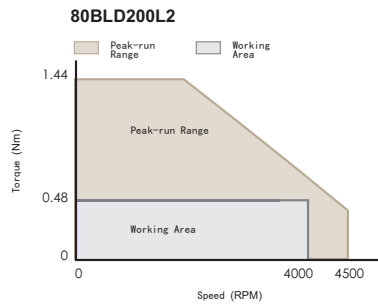
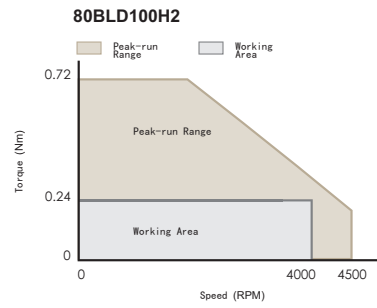
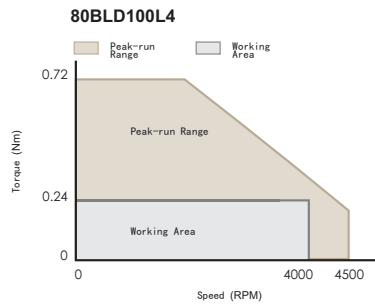
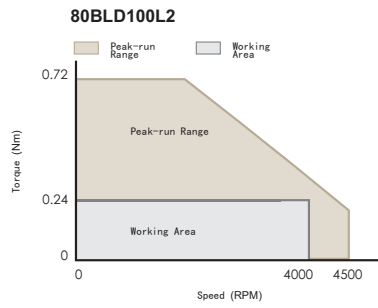
Mechanical Dimension Unit: mm

IP40 Series	L
	mm
80BLD100	50
80BLD200	67
80BLD300	84

IP65 Series	L
	mm
80BLD100	60
80BLD200	77
80BLD300	94



Torque - Speed Features



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

Connector Specification

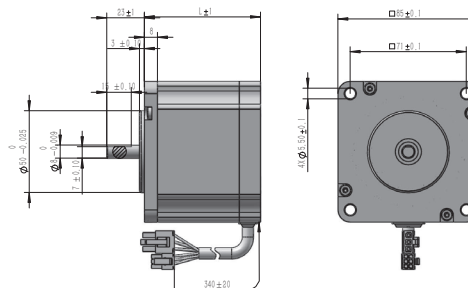
85BLDC Motors

Technical Specification

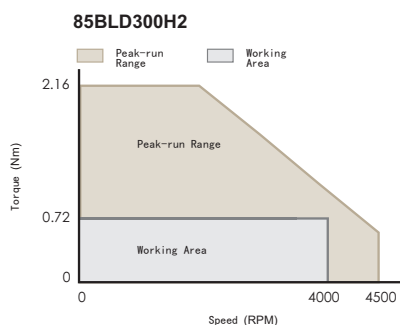
	Units	Type
		85BLD300H2
Length	mm	70
Input power	VDC	230
Rated power	W	300
Pole-pair number		4
Phase number		3
Rated speed	RPM	4000
Max. speed	RPM	5500
Rated torque	Nm	0.72
Max. torque	Nm	2.16
Rated current	A	2.96
Max. current	A	8.88
Voltage constant	Vrms/Krpm	17.5
Torque constant	Nm/Arms	0.243
Moment of inertia	10 ⁻⁴ kgm ²	0.5x10 ⁻⁴
Resistance	Ω	2.78
Inductance	mH	13.72
Sensor		Hall
Ins. class		B
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

IP40 Series	L
	mm
85BL300	70

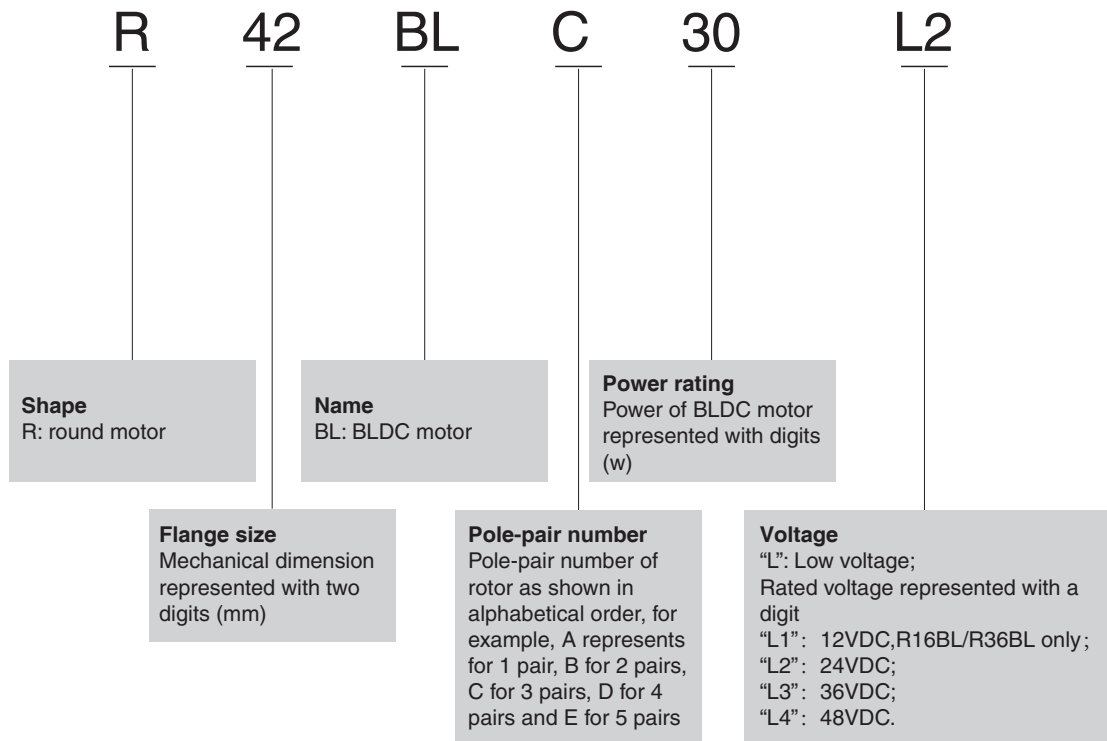


Torque - Speed Features



Round BLDC Motors

Model Numbering System



Introduction of BLDC Motors

 42 BLDC Motors

 57 BLDC Motors

 65 BLDC Motors

 70 BLDC Motors

 80 BLDC Motors

 85 BLDC Motors

Round BLDC Motors

 R16 BLDC Motors

 R22 BLDC Motors

 R30 BLDC Motors

 R36 BLDC Motors

 R42 BLDC Motors

 R57 BLDC Motors

Connector Specification

R16BLDC Motors

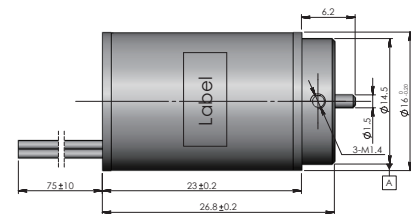
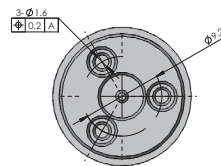
Technical Specification

	Units	Type
		R16BLB3L1
Length	mm	26.8
Input power	VDC	10
Rated power	W	3
Pole-pair number		2
Phase number		3
Rated speed	RPM	11800
Max. speed	RPM	16200
Rated torque	Nm	0.002
Max. torque	Nm	0.010
Rated current	A	0.45
Max. current	A	2.10
Voltage constant	Vrms/Krpm	0.45
Torque constant	Nm/Arms	5.04 * 10 ⁻³
Moment of inertia	10 ⁻⁷ kgm ²	2.8600
Resistance	Ω	2.20
Inductance	mH	0.30
Sensor		Hall
Ins.class		F
Protective rating		IP40
Operating temperature		-40~+85°C
Storage temperature		-40~+85°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		1000 m or below

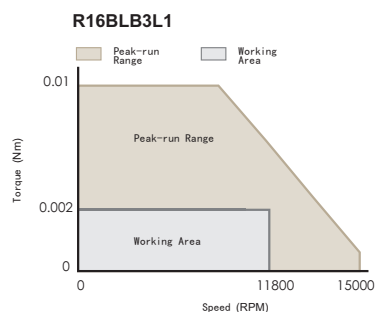
Mechanical Dimension

Unit: mm

IP40 Series	L mm
R16BLB3L1	26.8



Torque - Speed Features



R22BLDC Motors

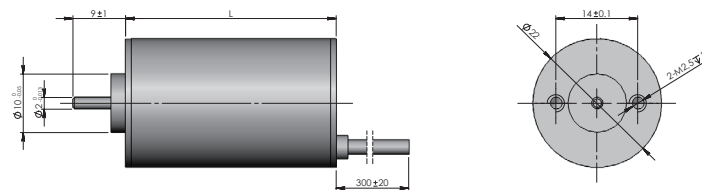
Technical Specification

	Units	Type	
		R22BLB9L2	R22BLB7L2
Length	mm	40	50
Input power	VDC	24	24
Rated power	W	8.5	7
Pole-pair number		2	
Phase number		3	
Rated speed	RPM	10000	6000
Max. speed	RPM	14000	8500
Rated torque	Nm	0.008	0.01
Max. torque	Nm	0.02	0.03
Rated current	A	0.72	0.54
Max. current	A	1.6	1.3
Voltage constant	Vrms/Krpm	1.7	3.5
Torque constant	Nm/Arms	0.011	0.019
Moment of inertia	10 ⁻⁴ kgm ²	1.0179	1.5269
Resistance	Ω	9.7	13.9
Inductance	mH	1.67	3.79
Sensor		Hall	
Ins.class		B	
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		1000 m or below	

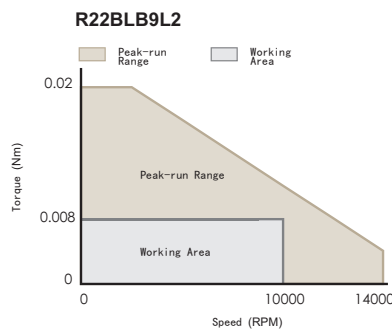
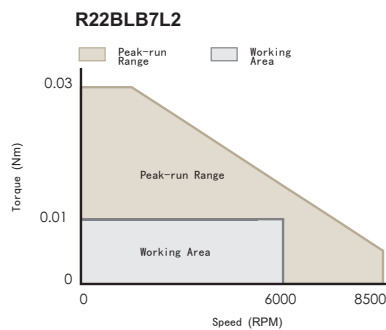
Mechanical Dimension

Unit: mm

IP40 Series	L mm
R22BLB9L2	40
R22BLB7L2	50



Torque - Speed Features



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

Connector Specification

R30BLDC Motors

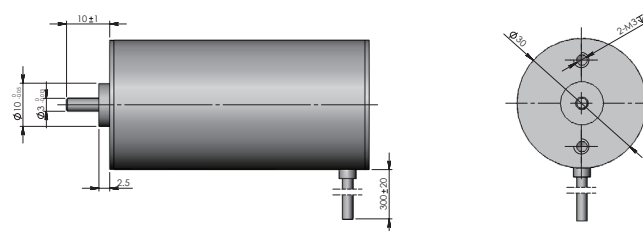
Technical Specification

	Units	Type	
		R30BLB6L2	R30BLB4L2
Length	mm	41	56
Input power	VDC	24	12
Rated power	W	6	4
Pole-pair number		2	
Phase number		3	
Rated speed	RPM	5000	1500
Max. speed	RPM	7500	3200
Rated torque	Nm	0.01	0.025
Max. torque	Nm	0.03	0.050
Rated current	A	0.5	0.7
Max. current	A	1.6	1.5
Voltage constant	Vrms/Krpm	2.2	3.4
Torque constant	Nm/Arms	0.020	0.036
Moment of inertia	10 ⁻⁴ kgm ²	2.0413	3.0620
Resistance	Ω	11.2	6
Inductance	mH	8.7	6.7
Sensor		Hall	
Ins.class		B	
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		1000 m or below	

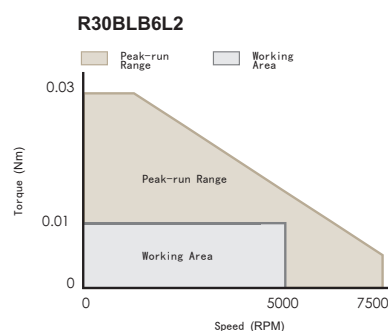
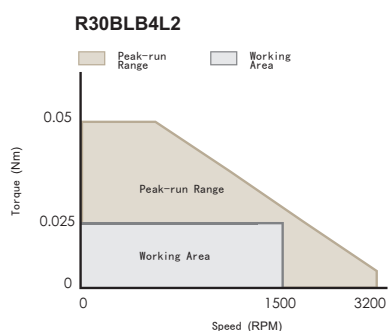
Mechanical Dimension

Unit: mm

IP40 Series	L mm
R30BLB6L2	41
R30BLB4L2	56



Torque - Speed Features



R36BLDC Motors

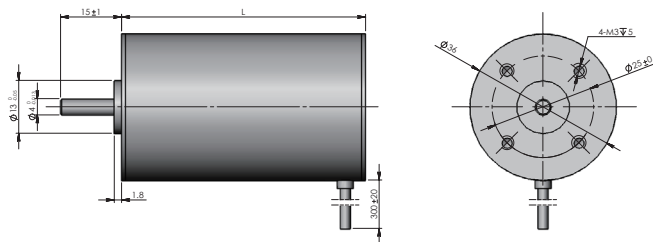
Technical Specification

	Units	Type				
		R36BLB10L2	R36BLB4L1	R36BLB15L2	R36BLB20L2	R36BLB20L2
Length	mm	40.2	45.2	50.2	55.2	65.2
Input power	VDC	24	12	24	24	24
Rated power	W	10	4	15	20	20
Pole-pair number		2				
Phase number		3				
Rated speed	RPM	5000	1800	5000	4000	3000
Max. speed	RPM	7500	3000	7400	5800	4200
Rated torque	Nm	0.019	0.021	0.029	0.048	0.064
Max. torque	Nm	0.057	0.050	0.086	0.140	0.191
Rated current	A	0.75	0.75	0.98	1.3	1.09
Max. current	A	2.25	2.25	2.94	3.9	3.27
Voltage constant	Vrms/Krpm	3.46	3.6	3.88	4.36	5.94
Torque constant	Nm/Arms	0.025	0.028	0.029	0.037	0.058
Moment of inertia	10 ⁻⁴ kgm ²	3.1481	4.1974	5.2468	6.2962	8.3949
Resistance	Ω	5.8	5.5	3.6	2.85	3.3
Inductance	mH	8.3	7.8	5.81	4.06	7.1
Sensor		Hall				
Ins.class		B				
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		1000 m or below				

Mechanical Dimension

Unit: mm

IP40 Series	L mm
R36BLB10L2	40.2
R36BLB4L1	45.2
R36BLB15L2	50.2
R36BLB20L2	55.2
R36BLB20L2	65.2



Introduction of BLDC Motors

□ 42 BLDC Motors

□ 57 BLDC Motors

□ 65 BLDC Motors

□ 70 BLDC Motors

□ 80 BLDC Motors

□ 85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

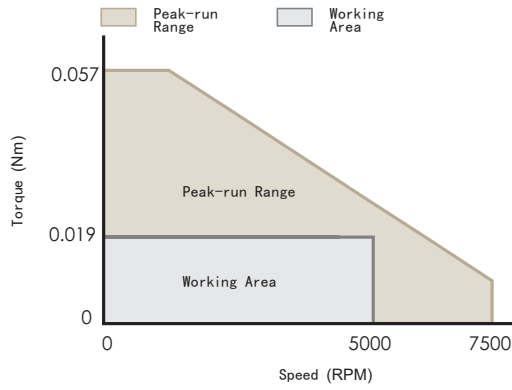
R42 BLDC Motors

R57 BLDC Motors

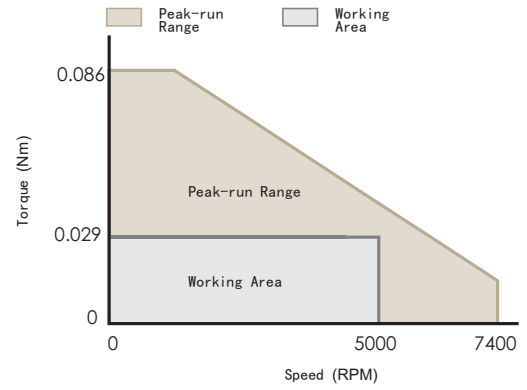
Connector Specification

Torque - Speed Features

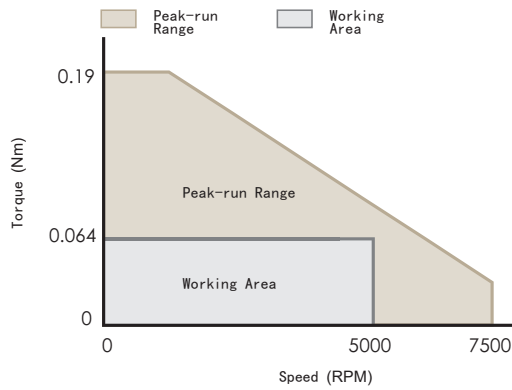
R36BLB10L2



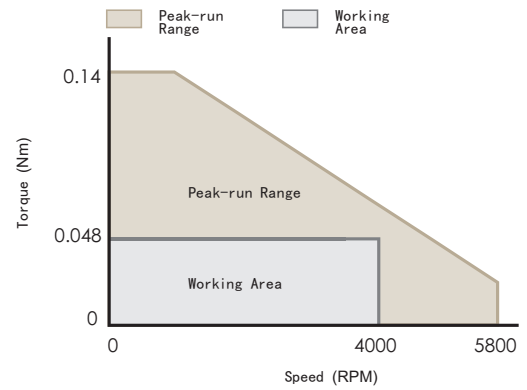
R36BLB15L2



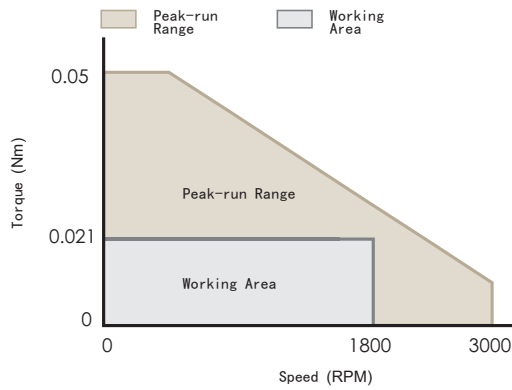
R36BLB20L2



R36BLB20L2



R36BLB4L1



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

Connector Specification

R42BLDC Motors

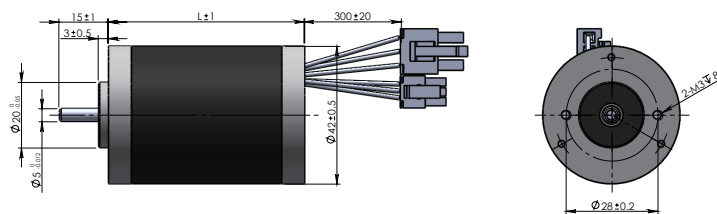
Technical Specification

	Units	Type			
		R42BLD10L2	R42BLD30L3	R42BLD60L2	R42BLD75L2
Length	mm	30	60	85	93
Input power	VDC	24	36	24	24
Rated power	W	10	30	60	75
Pole-pair number		4			
Phase number		3			
Rated speed	RPM	4000	4000	4000	4000
Max. speed	RPM	4500	4500	4500	4500
Rated torque	Nm	0.018	0.08	0.15	0.18
Max. torque	Nm	0.054	0.24	0.45	0.54
Rated current	A	0.50	1.67	4.00	4.80
Max. current	A	1.50	5.00	7.50	10.00
Voltage constant	Vrms/Krpm	3.0	4.5	3.0	3.0
Torque constant	Nm/Arms	0.036	0.048	0.060	0.055
Moment of inertia	10 ⁻⁴ kgm ²	0.016	0.033	0.084	0.094
Resistance	Ω	6.50	1.60	0.71	0.50
Inductance	mH	5.00	1.90	0.80	0.50
Sensor		Hall			
Ins.class		B			
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		1000 m or below			

Mechanical Dimension

Unit: mm

IP40 Series	L mm
R42BLD10	30
R42BLD30	60
R42BLD60	85
R42BLD75	93

Introduction of
BLDC Motors□ 42
BLDC Motors□ 57
BLDC Motors□ 65
BLDC Motors□ 70
BLDC Motors□ 80
BLDC Motors□ 85
BLDC MotorsRound
BLDC MotorsR16
BLDC MotorsR22
BLDC MotorsR30
BLDC MotorsR36
BLDC MotorsR42
BLDC MotorsR57
BLDC MotorsConnector
Specification

Torque - Speed Features

Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

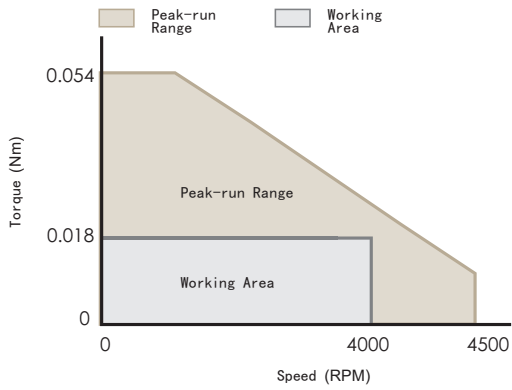
R36 BLDC Motors

R42 BLDC Motors

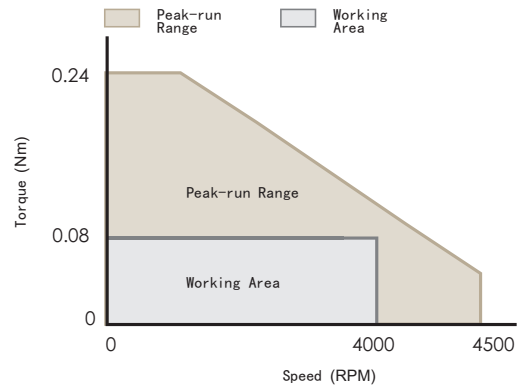
R57 BLDC Motors

Connector Specification

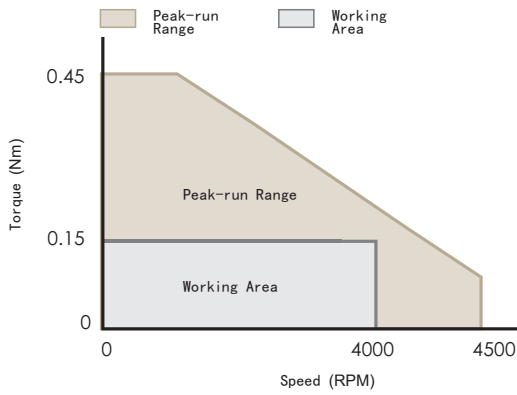
R42BLD10L2



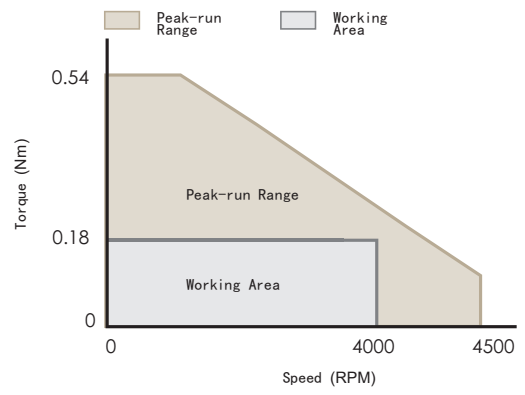
R42BLD30L3



R42BLD60L2



R42BLD75L2



R57BLDC Motors

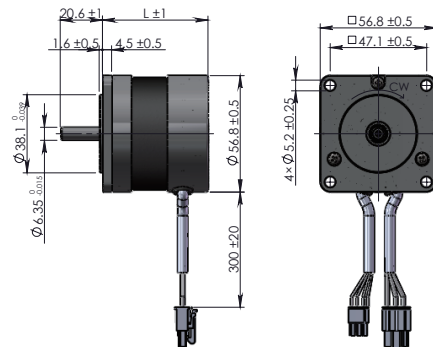
Technical Specification

	Units	Type			
		R57BLB50L2	R57BLB100L2	R57BLB130L3	R57BLB200L3
Length	mm	52	72	92	115
Input power	VDC	24	24	36	36
Rated power	W	51	100	135	190
Pole-pair number		2			
Phase number		3			
Rated speed	RPM	4000	4000	4000	3175
Max. speed	RPM	5000	5000	5000	5000
Rated torque	Nm	0.13	0.25	0.33	0.55
Max. torque	Nm	0.39	0.75	0.99	1.65
Rated current	A	3.00	5.85	5.4	6.86
Max. current	A	9.00	17.55	16.2	20.58
Voltage constant	Vrms/Krpm	5.0	5.1	7.3	8.3
Torque constant	Nm/Arms	0.050	0.047	0.062	0.100
Moment of inertia	10 ⁻⁴ kgm ²	0.067	0.122	0.172	0.234
Resistance	Ω	0.92	0.32	0.53	0.49
Inductance	mH	1.84	0.68	1.29	1.19
Sensor		Hall			
Ins.class		B			
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		1000 m or below			

Mechanical Dimension

Unit: mm

IP40 Series	L mm
R57BLB50L2	52
R57BLB100L2	72
R57BLB180L3	92
R57BLB200L3	115



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

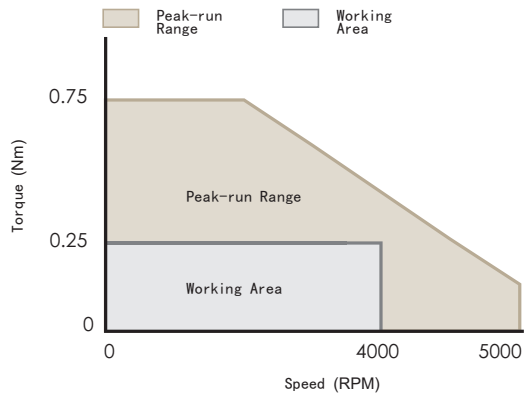
R42 BLDC Motors

R57 BLDC Motors

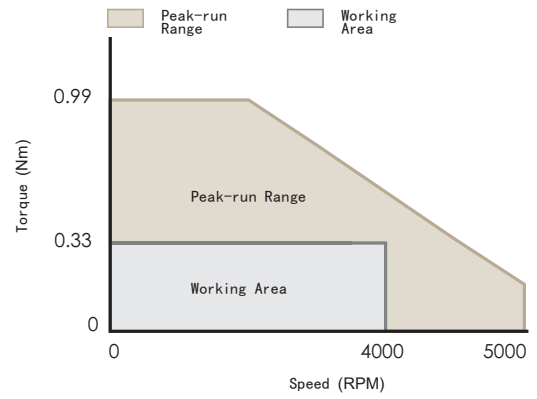
Connector Specification

Torque - Speed Features

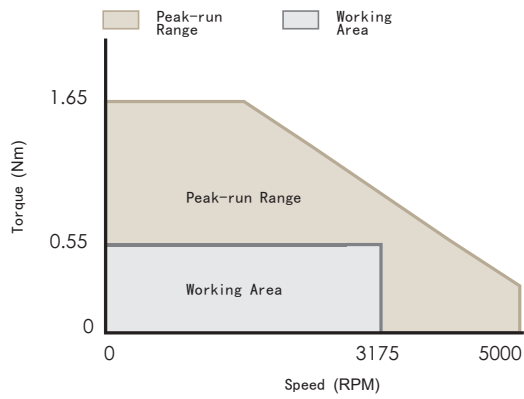
R57BLB100L2



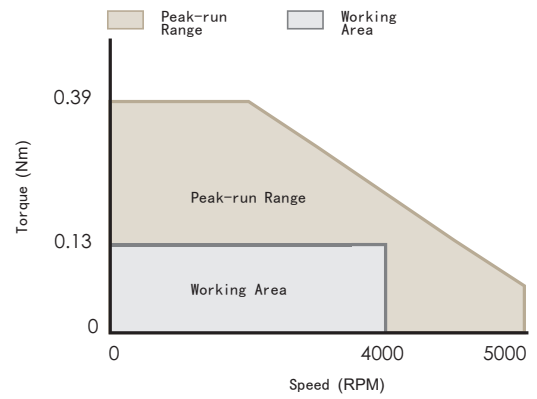
R57BLB180L3



R57BLB200L3



R57BLB50L2



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

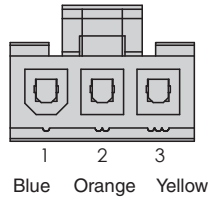
Connector Specification

Connector Specification

Motor connection

MOLEX Housing: 39-01-4031

MOLEX Terminal: 39-00-0207

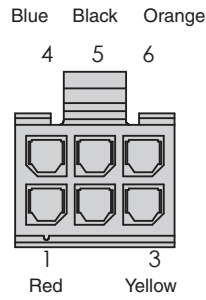


Terminal	1	2	3
Function	W	U	V
Color	Blue	Orange	Yellow

Encoder connection

MOLEX Housing: 43025-0600

MOLEX Terminal: 43030-0005



Terminal	Color	Function
1	Red	VCC (+5V)
3	Yellow	Hv
4	Blue	Hw
5	Black	GND
6	Orange	Hu

Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

65 BLDC Motors

70 BLDC Motors

80 BLDC Motors

85 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

Connector Specification

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