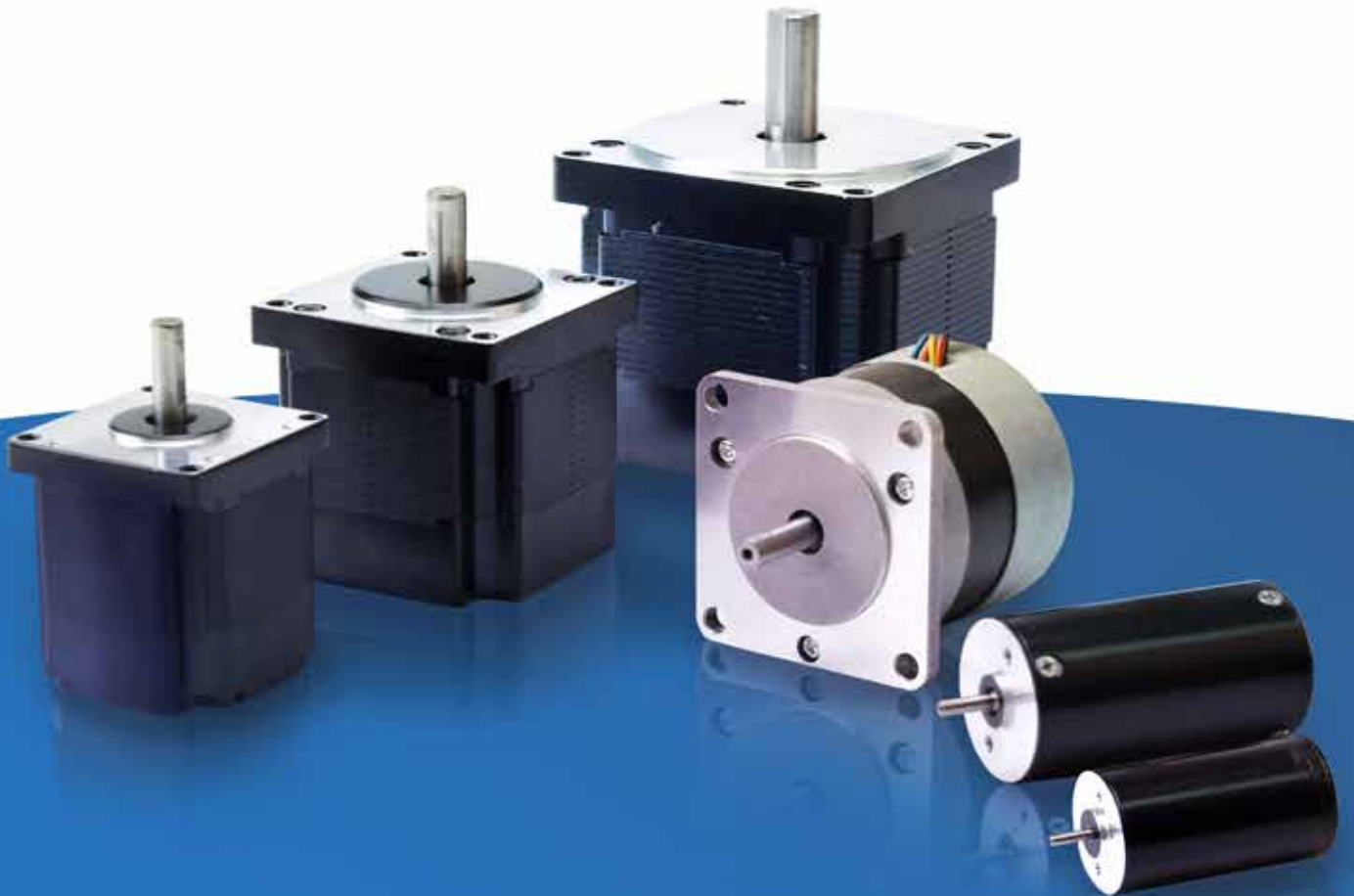


# BLDC



**MOONS'**  
*moving in better ways*

**GAP**  
**DRIVES**®

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info@gapdrives.com    www.gapdrives.com    +49 6103 9073818



# Catalog

- Introduction of BLDC Motors .....01
- 42BLDC Motors .....02
- 57BLDC Motors .....04
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- R36BLDC Motors .....13
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# Introduction of BLDC Motors

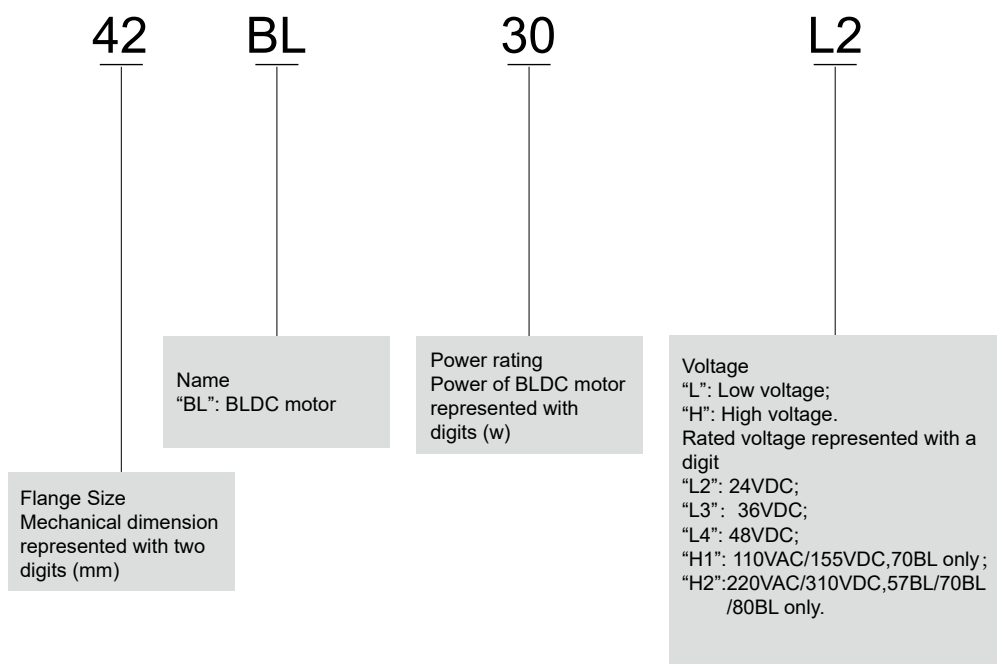
## Characteristics

- 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 Motor Series: 42mm, 30-90 Watts



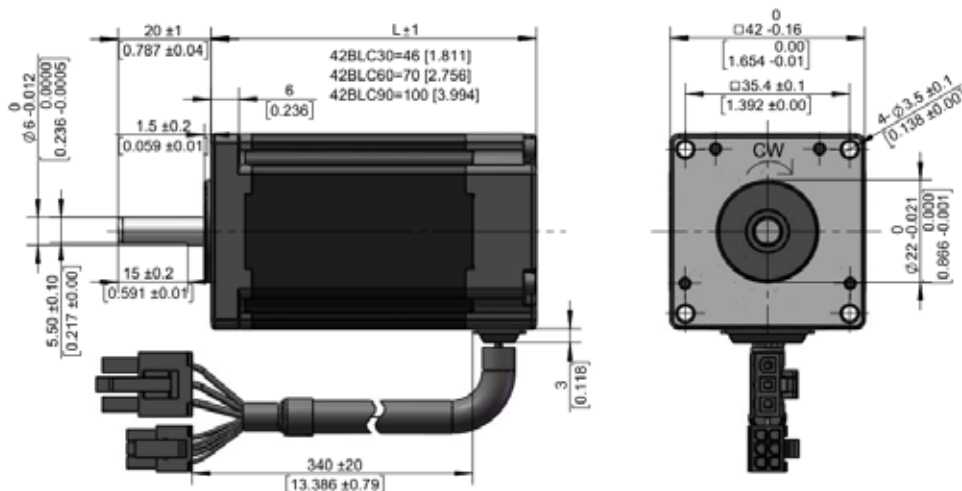
- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
B (130°C )  
IP40  
0 ~ +50°C  
-25 ~ +70°C  
85%RH or Below (non-condensing)  
Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
1000m max

## Technical Specification

Series		42BL30		42BL60		42BL90	
Length	mm	46		70		100	
Model Number		42BL30L2	42BL30L4	42BL60L2	42BL60L4	42BL90L2	42BL90L4
DC Supply Voltage	V dc	24	48	24	48	24	48
Rated Output Power	Watts	30	30	60	60	90	90
Rated Speed	RPM	4000	4000	4000	4000	4000	4000
Rated Torque	Nm	0.072	0.072	0.144	0.144	0.215	0.215
Rated Current	A rms	1.67	0.81	3.28	1.63	4.92	2.40
Max. Intermitent Torque	Nm	0.216	0.216	0.432	0.432	0.645	0.645
Max. Intermitent Current	A rms	5.01	2.43	9.84	4.89	14.76	7.2
Voltage Constant	Vrms / K RPM	2.95	6.13	3	6	3	6.1
Torque Constant	Nm / A rms	0.043	0.089	0.044	0.088	0.044	0.089
Winding Line Resistance	Ohms	1.34	5.92	0.68	2.62	0.4	1.47
Winding Line Inductance	mH	1.15	5.00	0.60	2.50	0.37	1.57
Max. Mechanical Speed	RPM	5000		5000		5000	
Moment of Inertia	kg m <sup>2</sup>	0.0388 x 10 <sup>-4</sup>		0.072 x 10 <sup>-4</sup>		0.114 x 10 <sup>-4</sup>	
Phases		3		3		3	
Pole-Pairs		3		3		3	

## Mechanical Dimension

Unit: mm



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

70 BLDC Motors

80 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

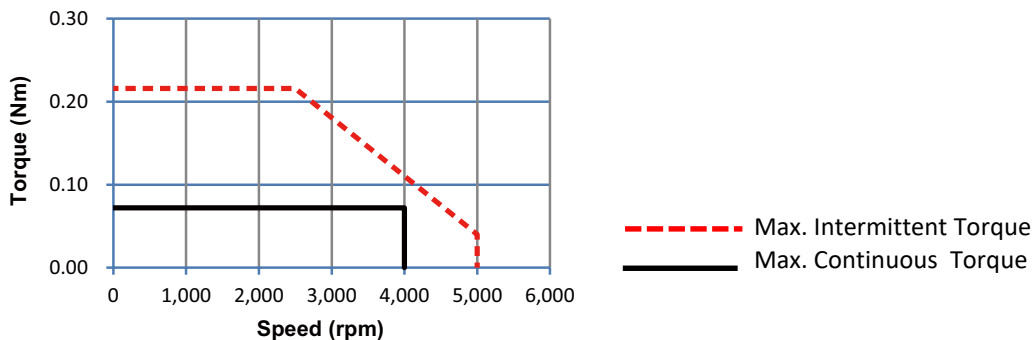
R42 BLDC Motors

R57 BLDC Motors

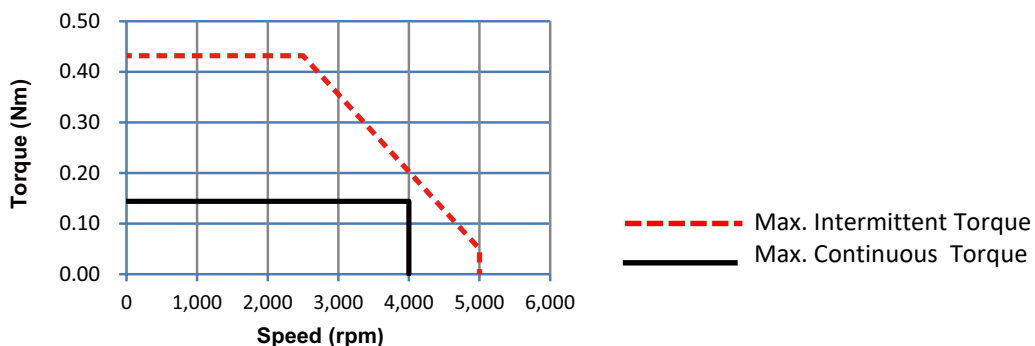
R63 BLDC Motors

## Torque - Speed Features

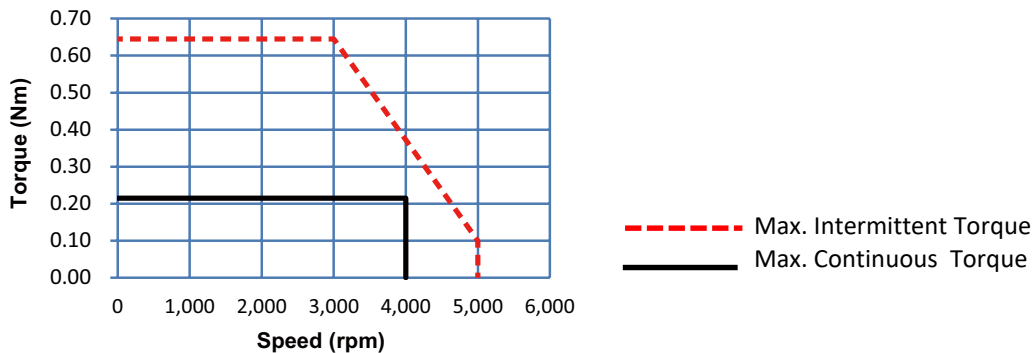
42BL30L2 (30W,24V)  
42BL30L4 (30W,48V)



42BL60L2 (60W,24V)  
42BL60L4 (60W,48V)



42BL90L2 (90W,24V)  
42BL90L4 (90W,48V)



# 57BLDC Motor Series: 57mm, 30-180 Watts



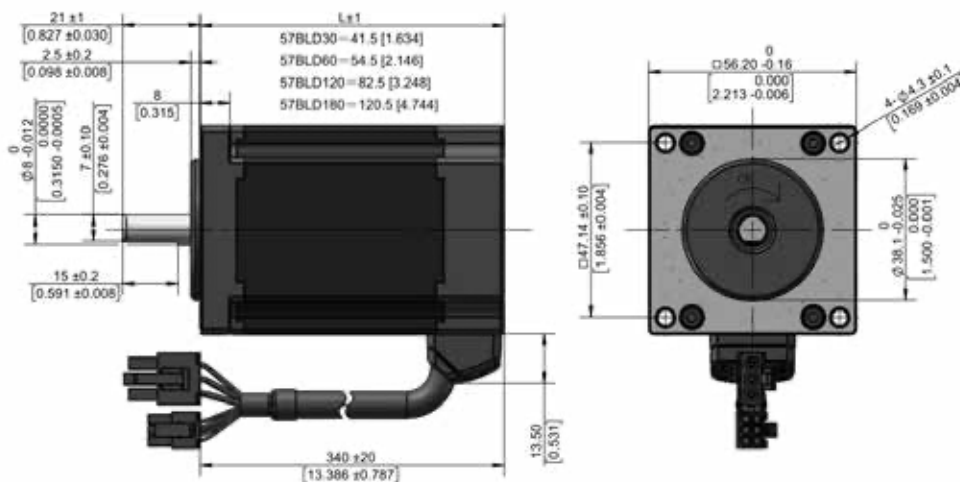
- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
 B (130°C )  
 IP40  
 0 ~ +50°C  
 -25 ~ +70°C  
 85%RH or Below (non-condensing)  
 Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
 1000m max

## Technical Specification

Series		57BL30		57BL60		57BL120		57BL180	
Length	mm	41.5		54.5		82.5		120.5	
Model Number		57BL30L2	57BL30L4	57BL60L2	57BL60L4	57BL120L2	57BL120L4	57BL180L2	57BL180L4
DC Supply Voltage	V dc	24	48	24	48	24	48	24	48
Rated Output Power	Watts	30	30	60	60	120	120	180	180
Rated Speed	RPM	4000	4000	4000	4000	4000	4000	4000	4000
Rated Torque	Nm	0.072	0.072	0.145	0.145	0.29	0.29	0.43	0.43
Rated Current	A rms	1.71	0.86	3.20	1.60	6.90	3.00	10.50	4.50
Max. Intermitent Torque	Nm	0.216	0.216	0.435	0.435	0.87	0.87	1.29	1.29
Max. Intermitent Current	A rms	5.13	2.58	9.60	4.80	20.70	9.00	31.50	13.50
Voltage Constant	Vrms / K RPM	3.00	6.45	3.08	6.35	3.00	6.40	3.00	6.45
Torque Constant	Nm / A rms	0.042	0.084	0.045	0.090	0.042	0.097	0.041	0.096
Winding Line Resistance	Ohms	0.71	3.25	0.48	1.80	0.18	0.76	0.11	0.44
Winding Line Inductance	mH	0.71	3.25	0.45	1.90	0.18	0.84	0.11	0.54
Max. Mechanical Speed	RPM	500		500		500		500	
Moment of Inertia	kg m <sup>2</sup>	0.087 x 10 <sup>-4</sup>		0.148 x 10 <sup>-4</sup>		0.279 x 10 <sup>-4</sup>		0.456 x 10 <sup>-4</sup>	
Phases		3		3		3		3	
Pole-Pairs		4		4		4		4	

## Mechanical Dimension

Unit: mm



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

70 BLDC Motors

80 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

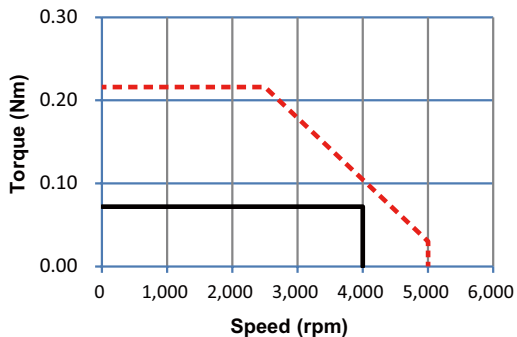
R42 BLDC Motors

R57 BLDC Motors

R63 BLDC Motors

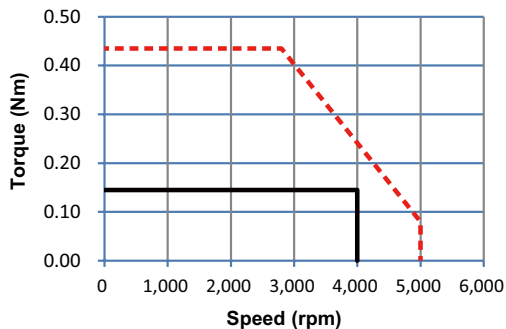
## Torque - Speed Features

57BL30L2 (30W,24V)  
57BL30L4 (30W,48V)



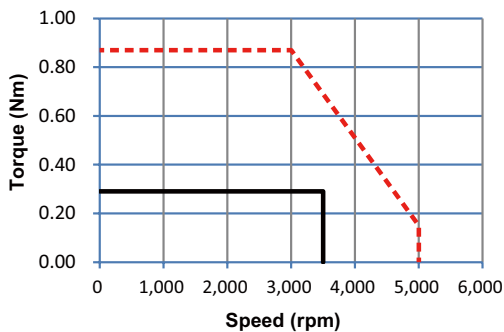
--- Max. Intermittent Torque  
— Max. Continuous Torque

57BL60L2 (60W,24V)  
57BL60L4 (60W,48V)



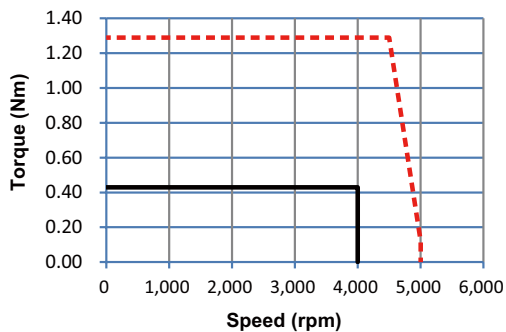
--- Max. Intermittent Torque  
— Max. Continuous Torque

57BL120L4 (120W,48V)



--- Max. Intermittent Torque  
— Max. Continuous Torque

57BL180L4 (180W,48V)



--- Max. Intermittent Torque  
— Max. Continuous Torque

# 70BLDC Motor Series: 70mm, 200 Watts



- Commutation Signals
- Insulation Class
- Protective Rating
- Operating Temperature
- Storage Temperature
- Operating RH
- Operating Environment
- Altitude

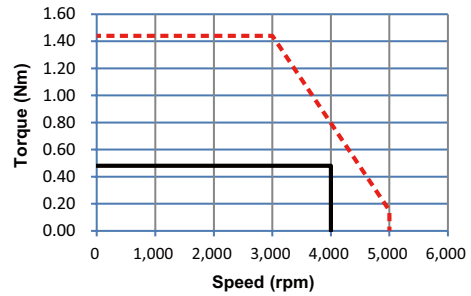
Hall Sensor  
 B (130°C)  
 IP40  
 0 ~ +50°C  
 -25 ~ +70°C  
 85%RH or Below (non-condensing)  
 Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
 1000m max

## Technical Specification

Series		70BL200	
Length	mm	81	
Model Number		70BL200H1	70BL200H2
DC Supply Voltage	V dc	155	310
Rated Output Power	Watts	200	200
Rated Speed	RPM	4000	4000
Rated Torque	Nm	0.48	0.48
Rated Current	A rms	2.76	1.83
Max. Intermitent Torque	Nm	1.44	1.44
Max. Intermitent Current	A rms	8.28	5.49
Voltage Constant	Vrms / K RPM	15.3	19.3
Torque Constant	Nm / A rms	0.17	0.26
Winding Line Resistance	Ohms	1.50	2.60
Winding Line Inductance	mH	8.00	12.70
Max. Mechanical Speed	RPM	5000	
Moment of Inertia	kg m <sup>2</sup>	0.5 x 10 <sup>-4</sup>	
Phases		3	
Pole-Pairs		2	

## Torque - Speed Features

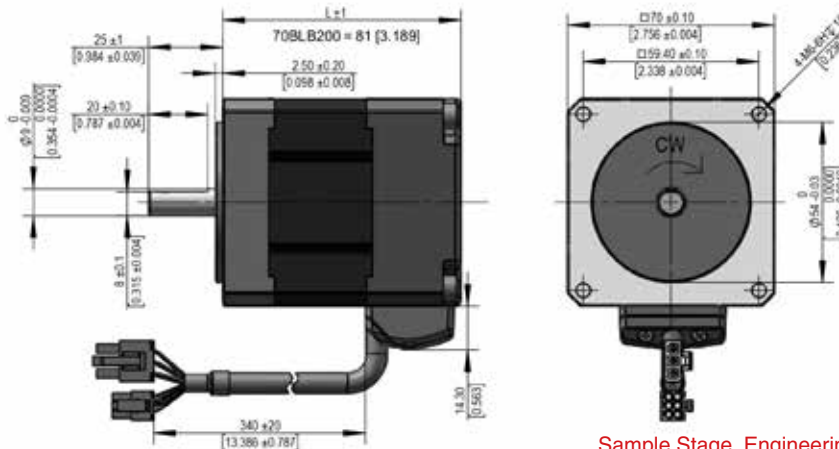
70BL200H1 (200W,115V)  
 70BL200H2 (200W,310V)



--- Max. Intermittent Torque  
 — Max. Continuous Torque

## Mechanical Dimension

Unit: mm



Sample Stage, Engineering Sample Available.

Introduction of BLDC Motors

42 BLDC Motors

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70 BLDC Motors

80 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

R63 BLDC Motors

# 80BLDC Motor Series: 80mm, 100-300 Watts



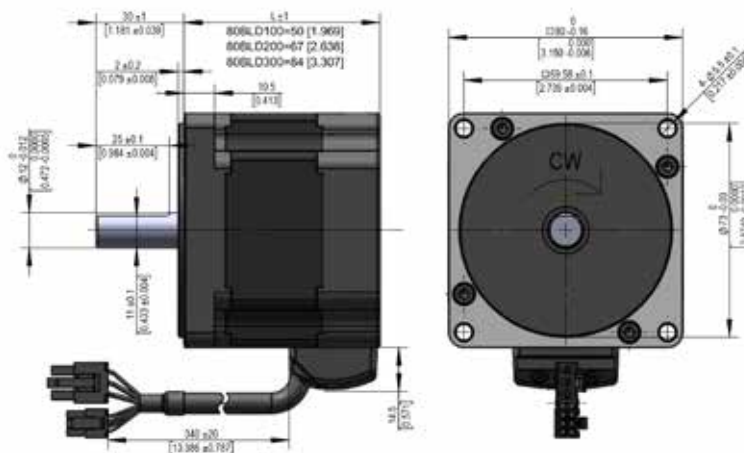
- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
B (130°C )  
IP40  
0 ~ +50°C  
-25 ~ +70°C  
85%RH or Below (non-condensing)  
Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
1000m max

## Technical Specification

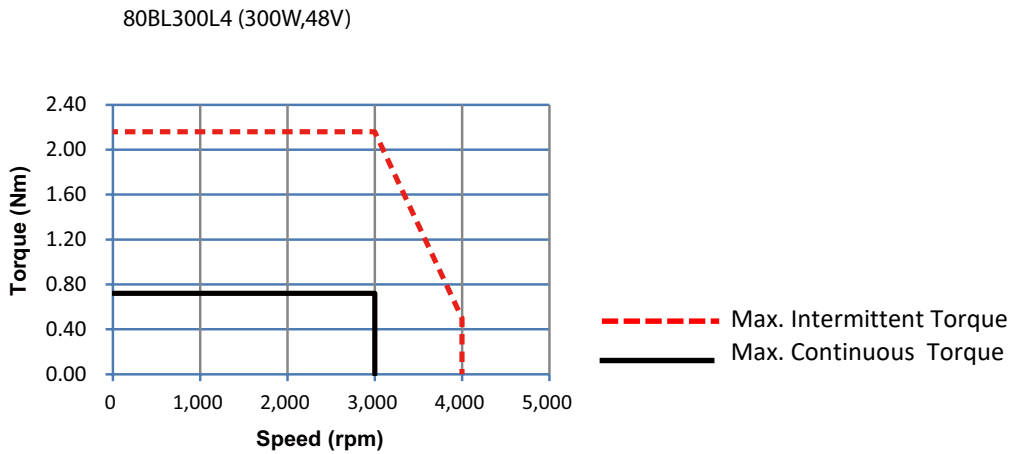
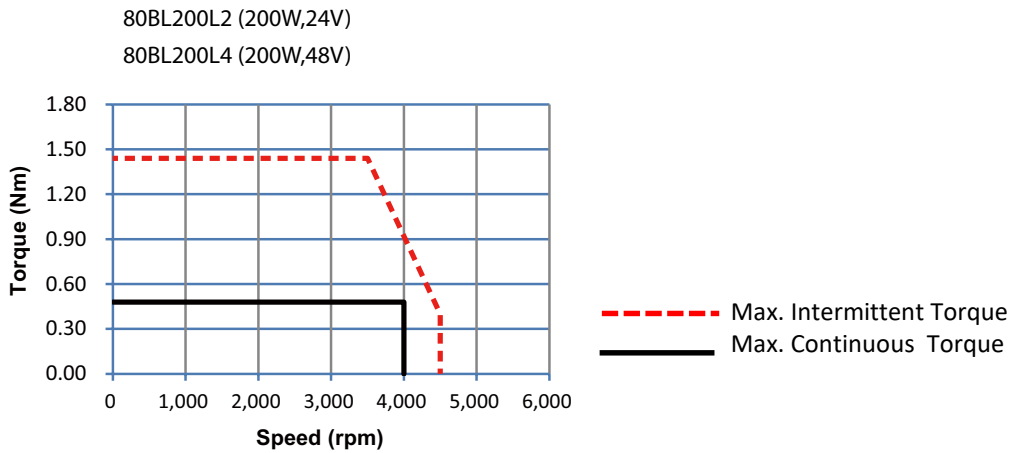
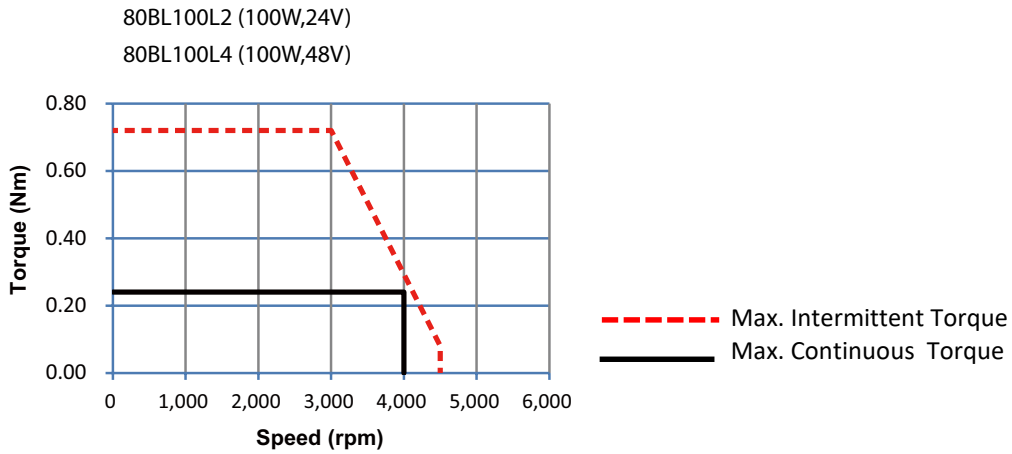
Series		80BL100		80BL200		80BL300	
Length	mm	50		67		84	
Model Number		80BL100L2	80BL100L4	80BL200L2	80BL200L4	80BL300L2	80BL300L4
DC Supply Voltage	V dc	24	48	24	48	24	48
Rated Output Power	Watts	100	100	200	200	300	300
Rated Speed	RPM	4000	4000	4000	4000	3000	4000
Rated Torque	Nm	0.24	0.24	0.48	0.48	0.72	0.72
Rated Current	A rms	5.00	2.43	10.10	5.06	12	7.49
Max. Intermitent Torque	Nm	0.72	0.72	1.44	1.44	2.16	2.16
Max. Intermitent Current	A rms	15.00	7.29	30.30	15.18	36.00	22.47
Voltage Constant	Vrms / K RPM	3.44	6.88	3.38	6.76	4.53	7.03
Torque Constant	Nm / A rms	0.048	0.099	0.048	0.095	0.060	0.096
Winding Line Resistance	Ohms	0.18	0.71	0.08	0.32	0.07	0.20
Winding Line Inductance	mH	0.34	1.35	0.18	0.70	0.19	0.47
Max. Mechanical Speed	RPM	4500		4500		4000	
Moment of Inertia	kg m <sup>2</sup>	0.38x10 <sup>-4</sup>		0.74 x 10 <sup>-4</sup>		1.08 x 10 <sup>-4</sup>	
Phases		3		3		3	
Pole-Pairs		4		4		4	

## Mechanical Dimension

Unit: mm



## Torque - Speed Features



Introduction of BLDC Motors

□ 42 BLDC Motors

□ 57 BLDC Motors

□ 70 BLDC Motors

□ 80 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

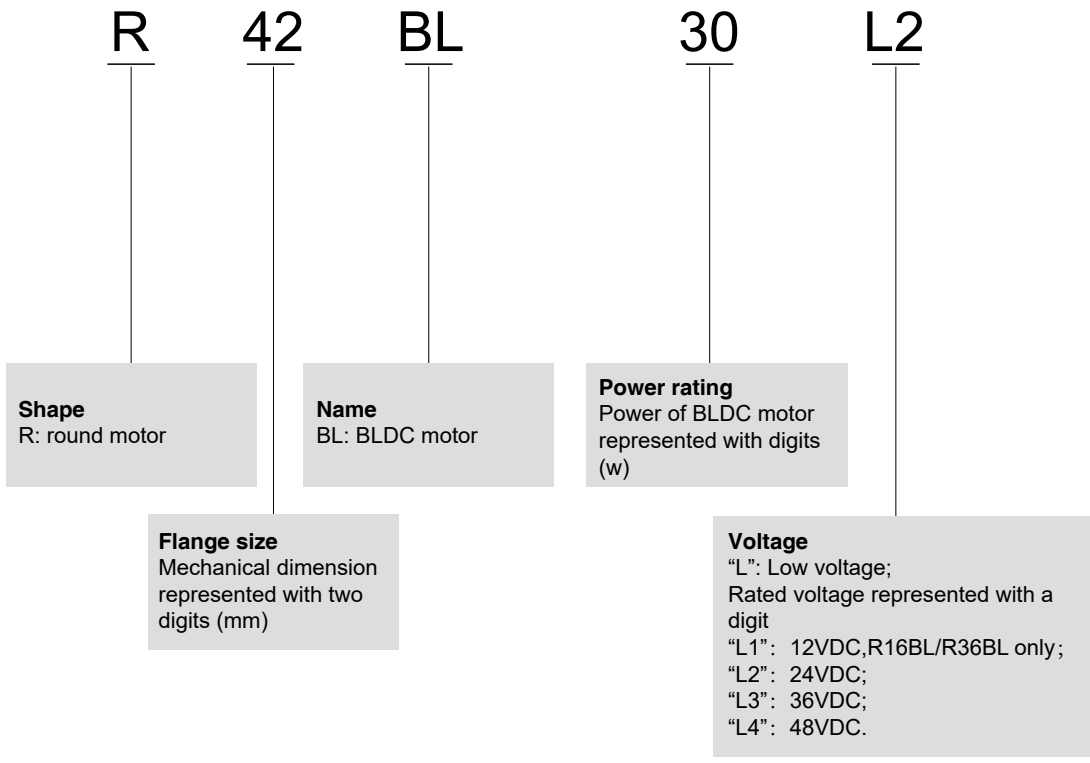
R42 BLDC Motors

R57 BLDC Motors

R63 BLDC Motors

# Round BLDC Motors

## Model Numbering System



Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

70 BLDC Motors

80 BLDC Motors

**Round BLDC Motors**

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

R63 BLDC Motors

# R16BLDC Motor Series: 16mm, 3 Watts

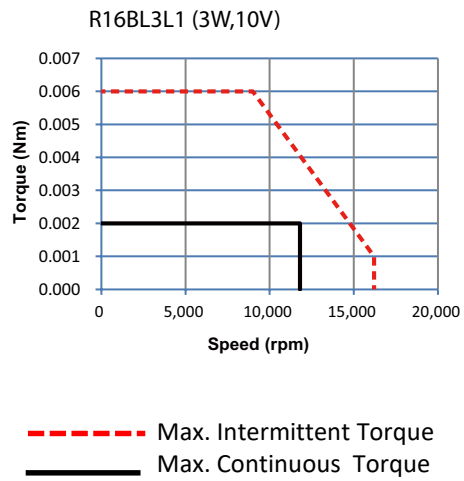


- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
 B (130°C )  
 IP40  
 0 ~ +50°C  
 -25 ~ +70°C  
 85%RH or Below (non-condensing)  
 Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
 1000m max

## Technical Specification

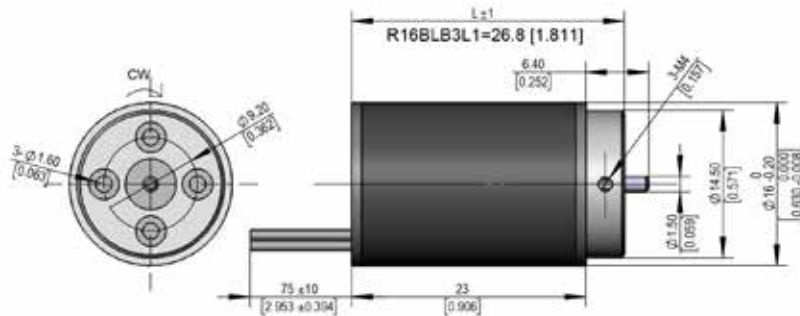
Series	R16BL3	
Length	mm	26.8
Model Number	R16BL3L1	
DC Supply Voltage	V dc	10
Rated Output Power	Watts	3
Rated Speed	RPM	11800
Rated Torque	Nm	0.002
Rated Current	A rms	0.42
Max. Intermitent Torque	Nm	0.006
Max. Intermitent Current	A rms	2.1
Voltage Constant	Vrms / K RPM	0.45
Torque Constant	Nm / A rms	$5.04 \times 10^{-3}$
Winding Line Resistance	Ohms	2.2
Winding Line Inductance	mH	0.3
Max. Mechanical Speed	RPM	16200
Moment of Inertia	kg m <sup>2</sup>	$2.86 \times 10^{-7}$
Phases	3	
Pole-Pairs	2	

## Torque - Speed Features



## Mechanical Dimension

Unit: mm



- Introduction of BLDC Motors
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- R30 BLDC Motors
- R36 BLDC Motors
- R42 BLDC Motors
- R57 BLDC Motors
- R63 BLDC Motors

# 22BLDC Motor Series: 22mm, 7-8.5 Watts

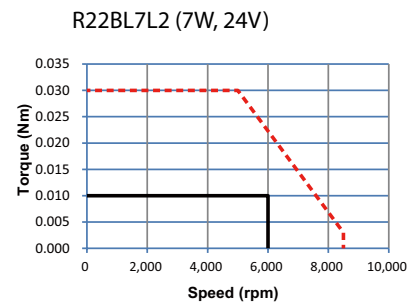
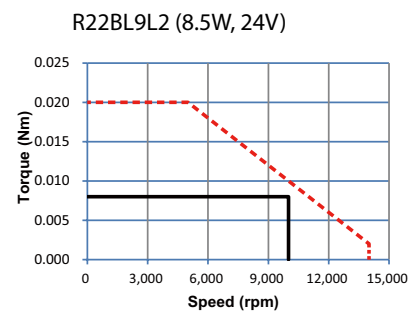


- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
B (130°C)  
IP40  
0 ~ +50°C  
-25 ~ +70°C  
85%RH or Below (non-condensing)  
Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
1000m max

## Technical Specification

Series		R22BL9	R22BL7
Length	mm	40	50
Model Number		R22BL9L2	R22BL7L2
DC Supply Voltage	V dc	24	24
Rated Output Power	Watts	8.5	7
Rated Speed	RPM	10000	6000
Rated Torque	Nm	0.008	0.01
Rated Current	A rms	0.72	0.54
Max. Intermittent Torque	Nm	0.02	0.03
Max. Intermittent Current	A rms	1.6	1.3
Voltage Constant	Vrms / K RPM	1.16	2.01
Torque Constant	Nm / A rms	0.011	0.019
Winding Line Resistance	Ohms	9.7	13
Winding Line Inductance	mH	1.67	3.4
Max. Mechanical Speed	RPM	14000	8900
Moment of Inertia	kg m <sup>2</sup>	1.53 x 10 <sup>-5</sup>	1.02 x 10 <sup>-5</sup>
Phases		3	3
Pole-Pairs		2	2

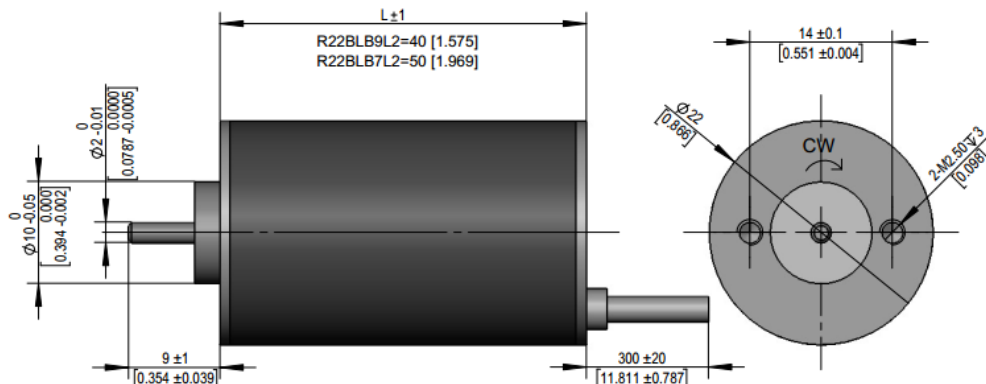
## Torque - Speed Features



--- Max. Intermittent Torque  
— Max. Continuous Torque

## Mechanical Dimension

Unit: mm



# R30BLDC Motor Series: 30mm, 4-6 Watts

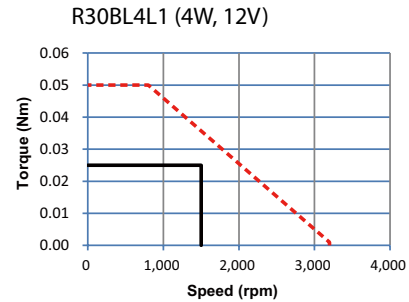
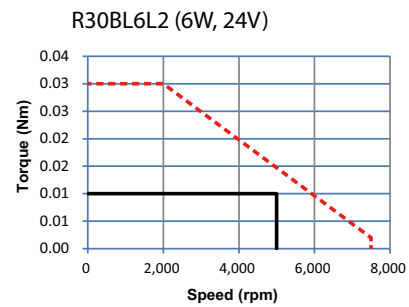


- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
 B (130°C )  
 IP40  
 0 ~ +50°C  
 -25 ~ +70°C  
 85%RH or Below (non-condensing)  
 Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
 1000m max

## Technical Specification

Series		R30BL6	R30BL4
Length	mm	41	56
Model Number		R30BL6L2	R30BL4L1
DC Supply Voltage	V dc	24	12
Rated Output Power	Watts	6	4
Rated Speed	RPM	5000	1500
Rated Torque	Nm	0.01	0.025
Rated Current	A rms	0.5	0.7
Max. Intermitent Torque	Nm	0.03	0.05
Max. Intermitent Current	A rms	1.6	1.5
Voltage Constant	Vrms / K RPM	1.56	2.4
Torque Constant	Nm / A rms	0.020	0.036
Winding Line Resistance	Ohms	11.2	6
Winding Line Inductance	mH	8.7	6.7
Max. Mechanical Speed	RPM	7700	3200
Moment of Inertia	kg m <sup>2</sup>	2.04 x 10 <sup>-6</sup>	3.06 x 10 <sup>-6</sup>
Phases		3	3
Pole-Pairs		2	2

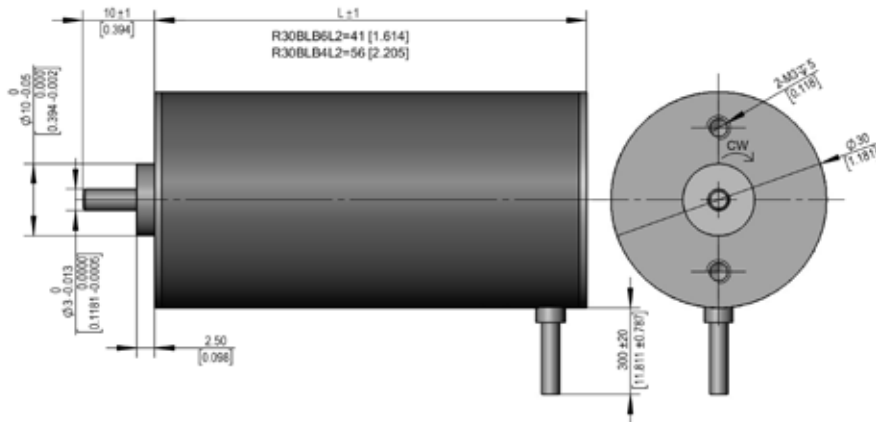
## Torque - Speed Features



--- Max. Intermittent Torque  
 — Max. Continuous Torque

## Mechanical Dimension

Unit: mm



- Introduction of BLDC Motors
- 42 BLDC Motors
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- R30 BLDC Motors
- R36 BLDC Motors
- R42 BLDC Motors
- R57 BLDC Motors
- R63 BLDC Motors

# R36BLDC Motor Series: 36mm, 4-20 Watts



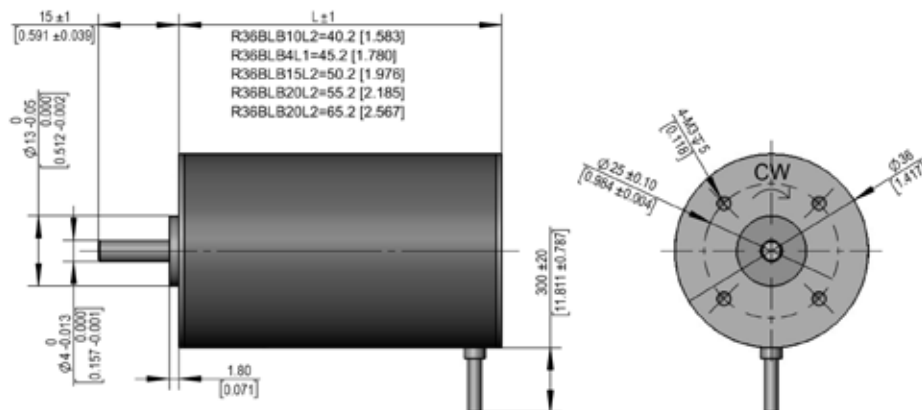
- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
B (130°C)  
IP40  
0 ~ +50°C  
-25 ~ +70°C  
85%RH or Below (non-condensing)  
Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
1000m max

## Technical Specification

Series		R36BL10	R36BL4	R36BL15	R36BL20	R36BL20-1
Length	mm	40.2	45.2	50.2	55.2	65.2
Model Number		R36BL10L2	R36BL4L1	R36BL15L2	R36BL20L2	R36BL20L2-1
DC Supply Voltage	V dc	24	12	24	24	24
Rated Output Power	Watts	10	4	15	20	20
Rated Speed	RPM	5000	1800	5000	4000	3000
Rated Torque	Nm	0.019	0.021	0.029	0.048	0.064
Rated Current	A rms	0.75	0.75	0.98	1.3	1.09
Max. Intermitent Torque	Nm	0.057	0.050	0.086	0.140	0.191
Max. Intermitent Current	A rms	2.25	2.25	2.94	3.9	3.27
Voltage Constant	Vrms / K RPM	2.1	2.55	2.76	2.51	4.17
Torque Constant	Nm / A rms	0.025	0.028	0.029	0.037	0.058
Winding Line Resistance	Ohms	5.8	5.5	3.6	2.85	3.3
Winding Line Inductance	mH	8.3	7.8	5.81	5.2	7.1
Max. Mechanical Speed	RPM	7500	3000	7400	5800	4200
Moment of Inertia	kg m <sup>2</sup>	3.148x 10 <sup>-6</sup>	4.197x 10 <sup>-6</sup>	5.248x 10 <sup>-6</sup>	6.296x 10 <sup>-6</sup>	8.395x 10 <sup>-6</sup>
Phases		3	3	3	3	3
Pole-Pairs		2	2	2	2	2

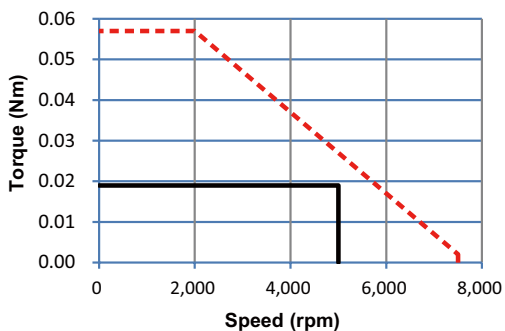
## Mechanical Dimension

Unit: mm



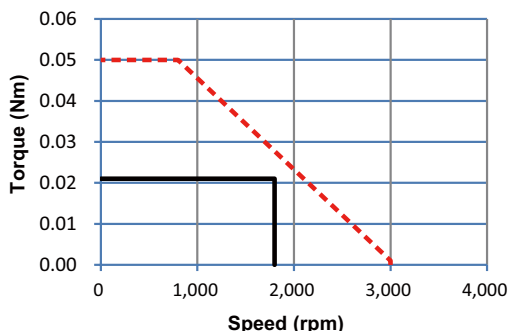
# Torque - Speed Features

R36BL10L2 (10W, 24V)



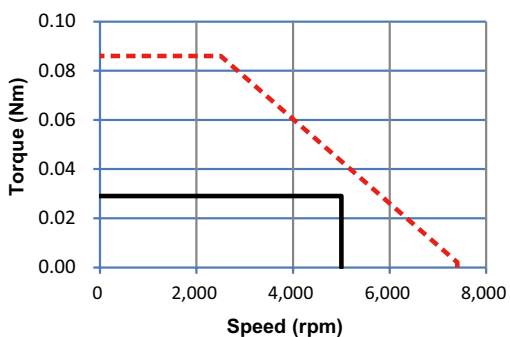
--- Max. Intermittent Torque  
 ——— Max. Continuous Torque

R36BL4L1 (4W, 12V)



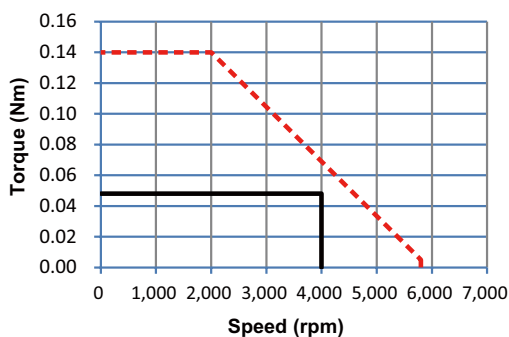
--- Max. Intermittent Torque  
 ——— Max. Continuous Torque

R36BL15L2 (15W, 24V)



--- Max. Intermittent Torque  
 ——— Max. Continuous Torque

R36BL20L2 (20W, 24V)



--- Max. Intermittent Torque  
 ——— Max. Continuous Torque

Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

70 BLDC Motors

80 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

R63 BLDC Motors

# R42BLDC Motor Series: 42mm, 10-75 Watts



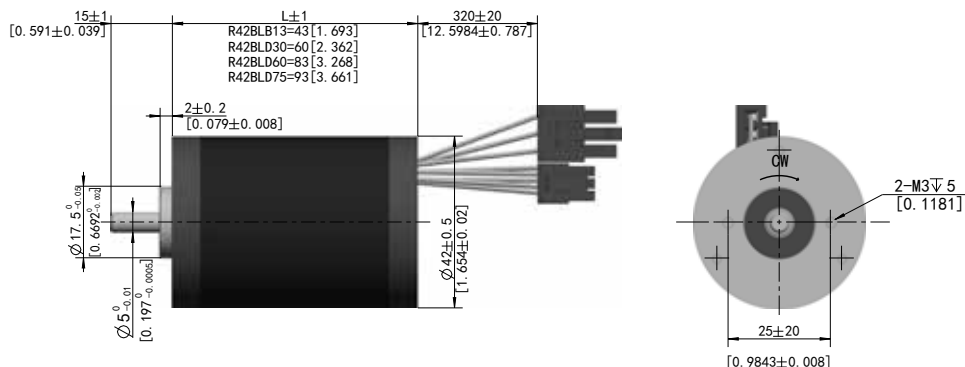
- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
B (130°C)  
IP40  
0 ~ +50°C  
-25 ~ +70°C  
85%RH or Below (non-condensing)  
Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
1000m max

## Technical Specification

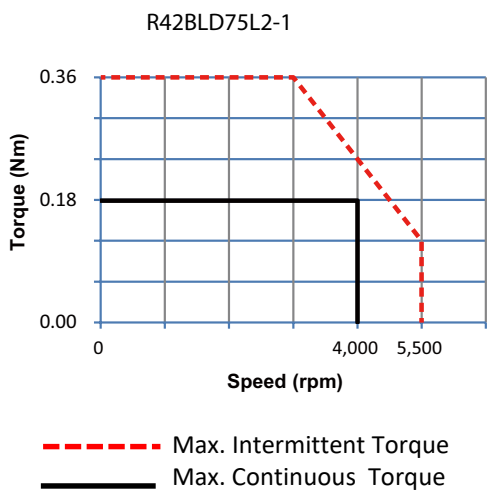
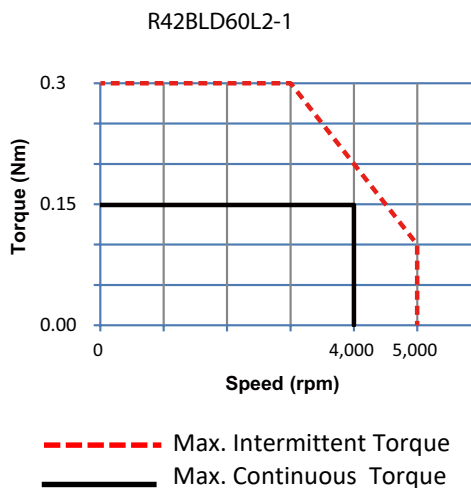
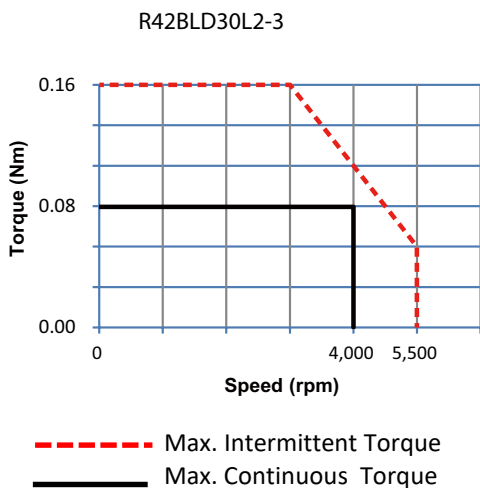
Series		R42BLD30L2-3	R42BLD60L2-1	R42BLD75L2-1
Length	mm	60	83	93
Model Number		R42BLD30L2-3	R42BLD60L2-1	R42BLD75L2-1
DC Supply Voltage	V dc	24	24	24
Rated Output Power	Watts	30	60	75
Rated Speed	RPM	4000	4000	4000
Rated Torque	Nm	0.08	0.15	0.18
Rated Current	A rms	1.85	3.40	4.20
Max. Intermitent Torque	Nm	0.16	0.30	0.36
Max. Intermitent Current	A rms	3.70	6.80	8.40
Voltage Constant	Vrms / K RPM	3.03	3.10	2.95
Torque Constant	Nm / A rms	0.043	0.044	0.043
Winding Line Resistance	Ohms	0.98	0.46	0.42
Winding Line Inductance	mH	1.73	0.74	0.80
Max. Mechanical Speed	RPM	5500	5000	5500
Moment of Inertia	kg m <sup>2</sup>	4.017	6.015	6.036
Phases		3	3	3
Pole-Pairs		8	8	8

## Mechanical Dimension

Unit: mm



## Torque - Speed Features



Introduction of BLDC Motors

□ 42 BLDC Motors

□ 57 BLDC Motors

□ 70 BLDC Motors

□ 80 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

**R42 BLDC Motors**

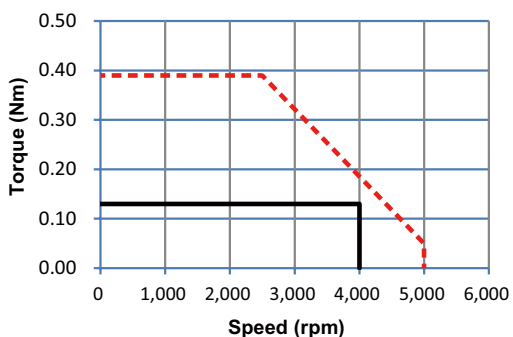
R57 BLDC Motors

R63 BLDC Motors



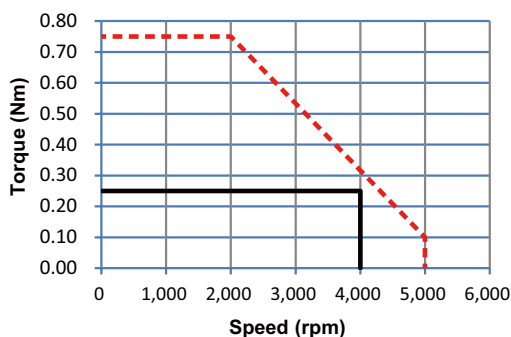
# Torque - Speed Features

R57BL50L2 (50W, 24V)



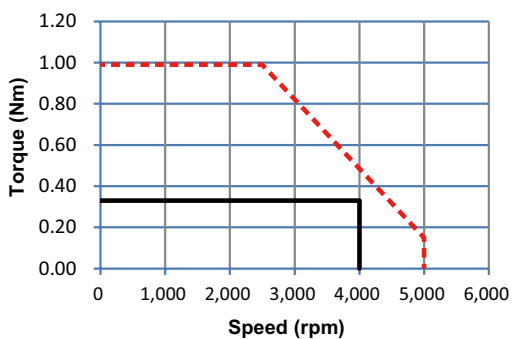
--- Max. Intermittent Torque  
 — Max. Continuous Torque

R57BL100L2 (100W, 24V)



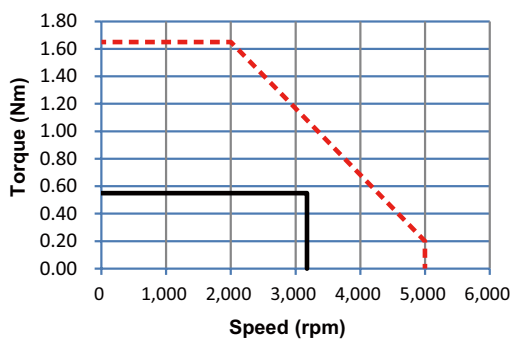
--- Max. Intermittent Torque  
 — Max. Continuous Torque

R57BL130L3 (130W, 36V)



--- Max. Intermittent Torque  
 — Max. Continuous Torque

R57BL180L3 (180W, 36V)



--- Max. Intermittent Torque  
 — Max. Continuous Torque

Introduction of BLDC Motors

42 BLDC Motors

57 BLDC Motors

70 BLDC Motors

80 BLDC Motors

Round BLDC Motors

R16 BLDC Motors

R22 BLDC Motors

R30 BLDC Motors

R36 BLDC Motors

R42 BLDC Motors

R57 BLDC Motors

R63 BLDC Motors

# R63BLDC Motor Series: 63mm, 30-60 Watts

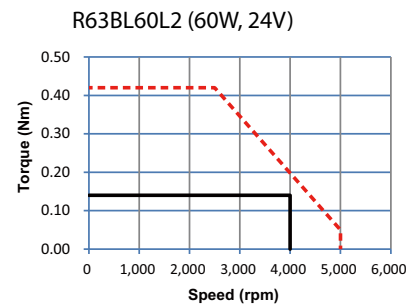
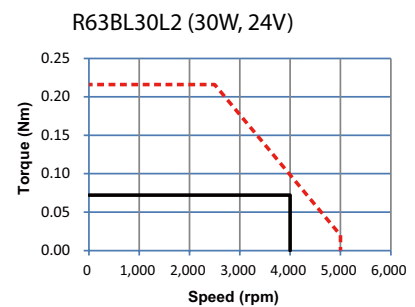


- Commutation Signals
  - Insulation Class
  - Protective Rating
  - Operating Temperature
  - Storage Temperature
  - Operating RH
  - Operating Environment
  - Altitude
- Hall Sensor  
 B (130°C )  
 IP40  
 0 ~ +50°C  
 -25 ~ +70°C  
 85%RH or Below (non-condensing)  
 Indoor, no corrosive gas, no flammable gas, no oil mist, no dust  
 1000m max

## Technical Specification

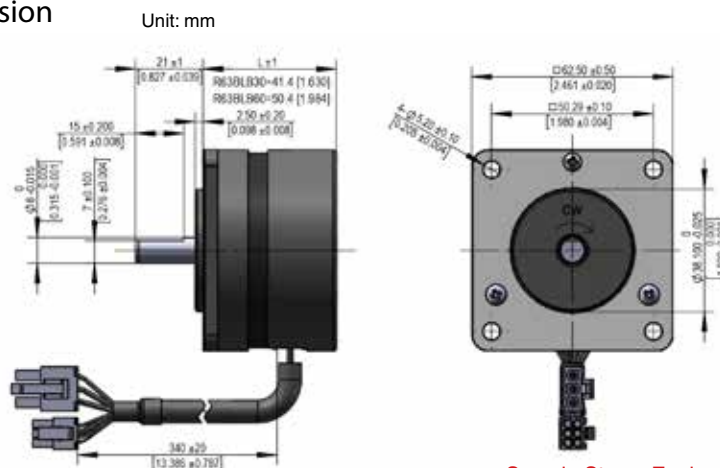
Series		R63BL30	R63BL60
Length	mm	41.4	50.4
Model Number		R63BL30L2	R63BL60L2
DC Supply Voltage	V dc	24	24
Rated Output Power	Watts	30	60
Rated Speed	RPM	4000	4000
Rated Torque	Nm	0.072	0.14
Rated Current	A rms	1.8	3
Max. Intermittent Torque	Nm	0.216	0.42
Max. Intermittent Current	A rms	5.4	9
Voltage Constant	Vrms / K RPM	3	3.3
Torque Constant	Nm / A rms	0.040	0.047
Winding Line Resistance	Ohms	1.15	0.59
Winding Line Inductance	mH	1.6	0.8
Max. Mechanical Speed	RPM	5000	5000
Moment of Inertia	kg m <sup>2</sup>	0.08x 10 <sup>-4</sup>	0.1x 10 <sup>-4</sup>
Phases		3	3
Pole-Pairs		2	2

## Torque - Speed Features



----- Max. Intermittent Torque  
 ————— Max. Continuous Torque

## Mechanical Dimension



Sample Stage, Engineering Sample Available.

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Fax: +41 (0)32 7325504  
TECHNOSOFT International  
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