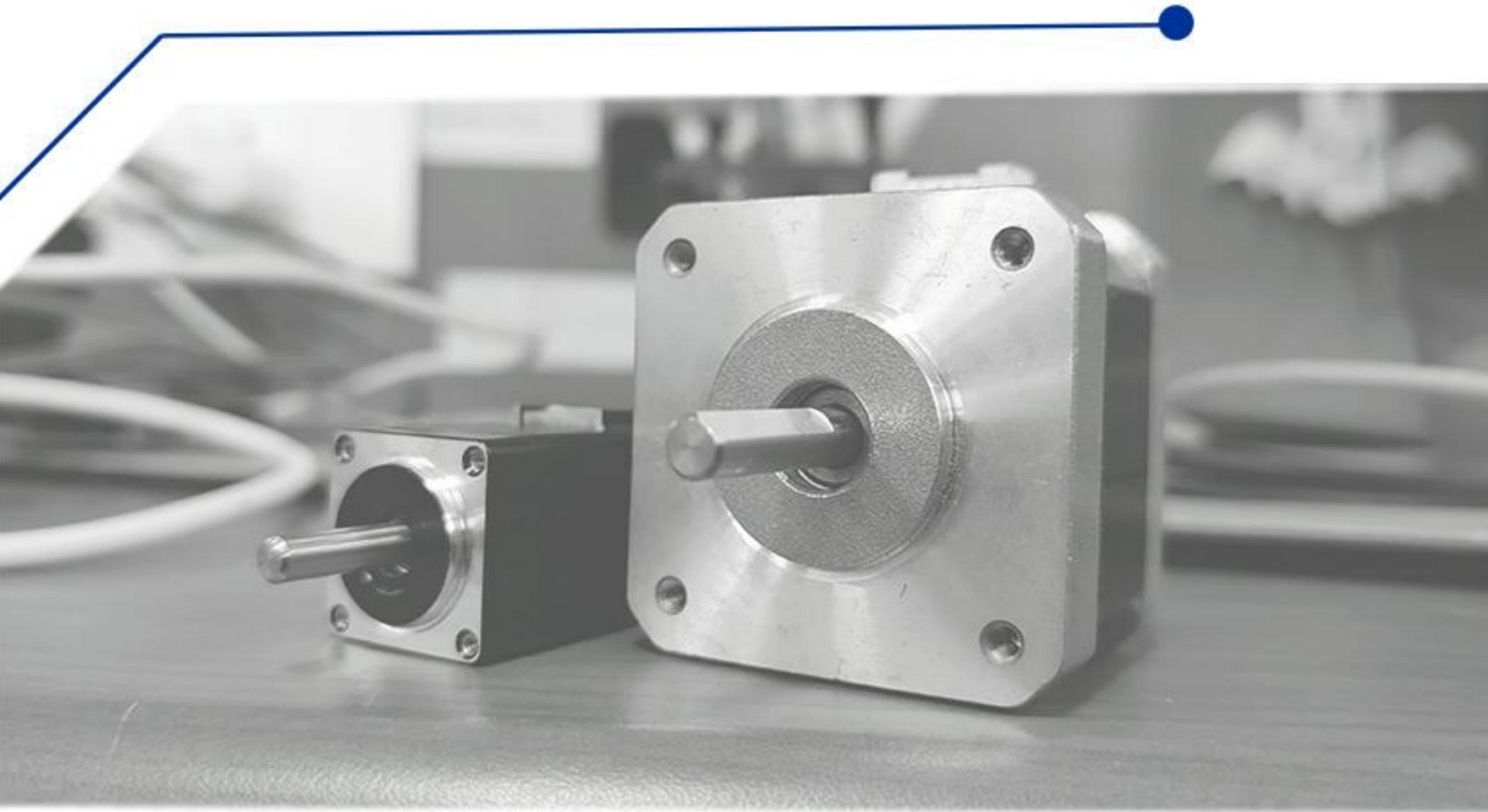




# BLDC Motor Catalog

12V/24V/36V/48V/72V/96V



 [www.bldc.com](http://www.bldc.com)

 [sales@bldc.com](mailto:sales@bldc.com)

 +86 773-280-9002



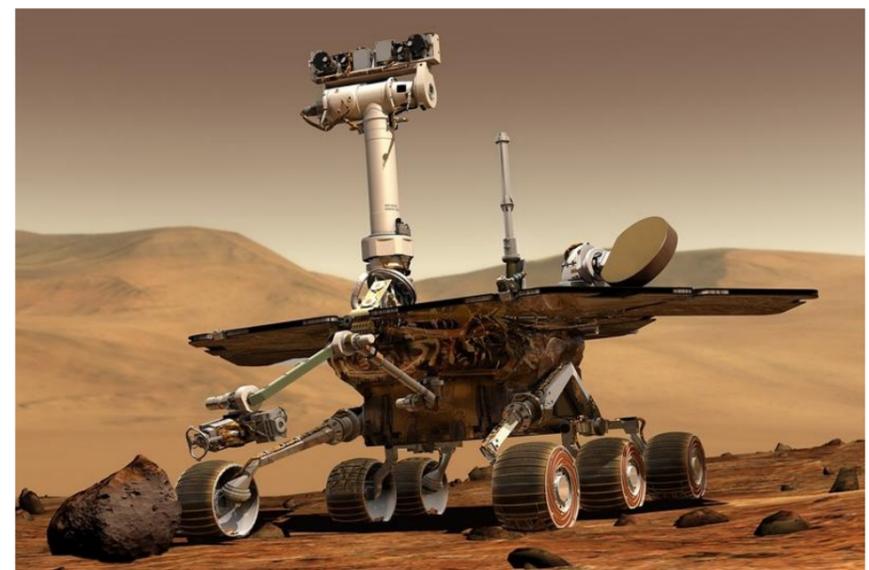
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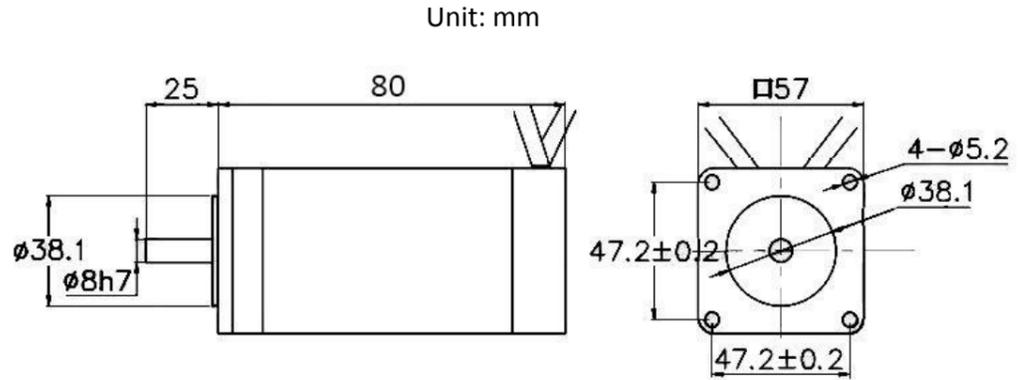
## Features

- **Stable Speed Control:** The 50W BLDC motor maintains a set speed by continuously comparing feedback signals and adjusting voltage, ensuring consistent performance even with load changes.
- **Compact & High Power:** Uses a permanent magnet rotor in a 3 phase design, delivering a thin profile with high power density.
- **Wide Speed Range:** It offers a broader speed control range than AC motors and inverters, providing strong torque from low to high speeds without brushes.
- **Energy Efficient:** Permanent magnet rotor reduces rotor losses, cutting power consumption by over 20% compared to variable frequency induction motors, supporting energy savings.
- **Built-in Protection:** Brushless DC motor includes safety features to protect the equipment system.

## Applications



# 50W BLDC Motor - 12V/24V/36V



## Basic Information

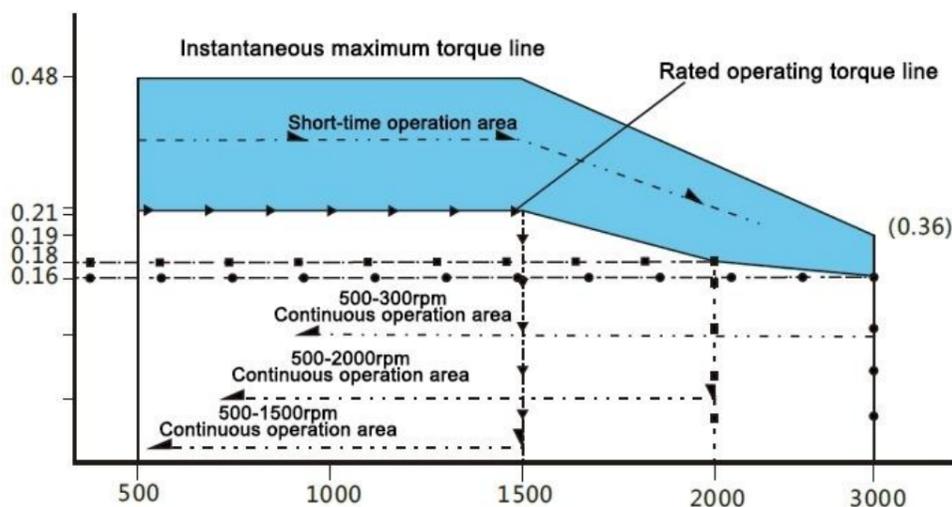
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 71%/85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D2BLD50-12A-30S	50W	12V DC	5.21A	0.16Nm	0.48Nm	3000rpm	60mm	BLDC-BLD300	2kg
BLDC-D2BLD50-24A-30S	50W	24V DC	2.6A	0.16Nm	0.48Nm	3000rpm	60mm	BLDC-BLD120A	2kg
BLDC-D2BLD50-36A-30S	50W	36V DC	1.7A	0.16Nm	0.48Nm	3000rpm	60mm	BLDC-BLD300	2kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

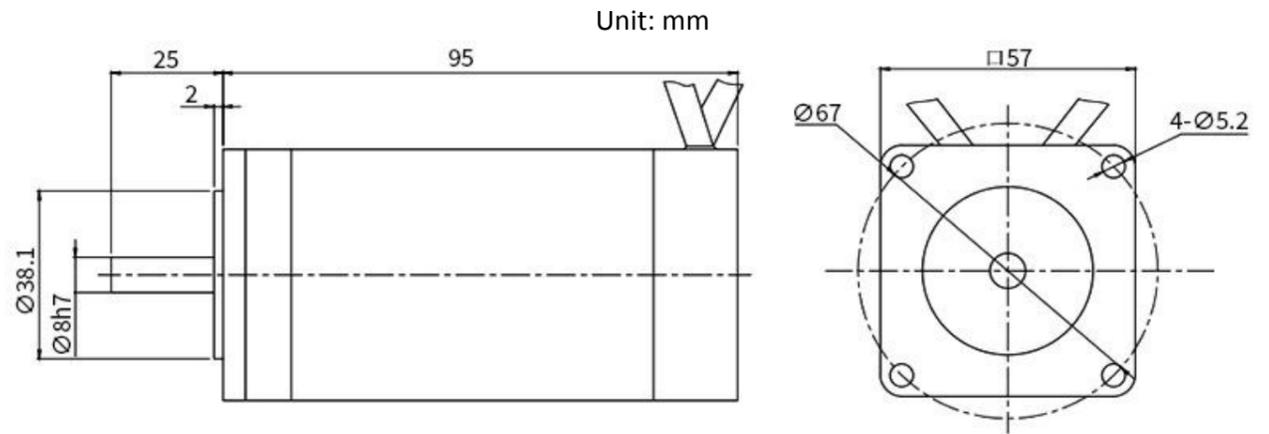
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 100W BLDC Motor - 12V/24V/36V/48V



## Basic Information

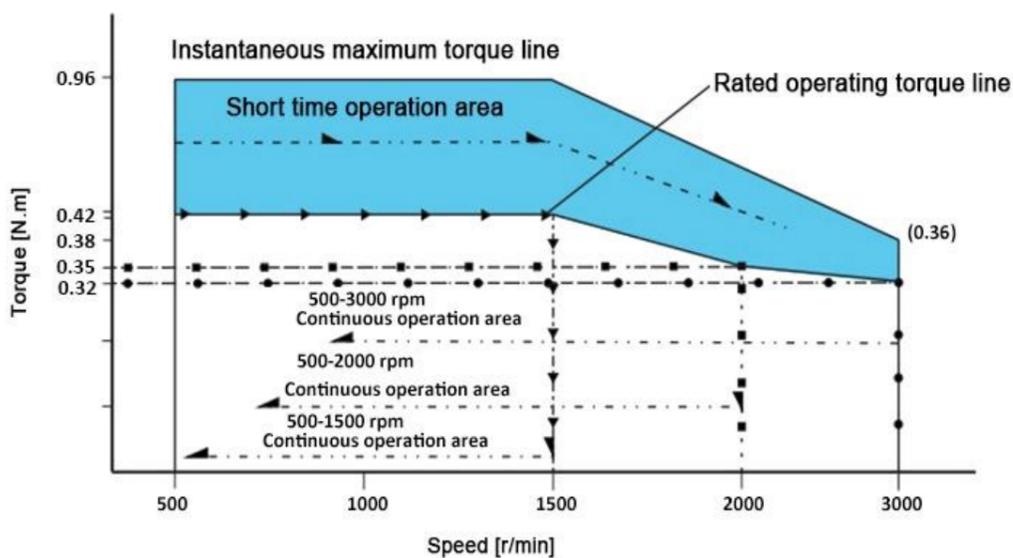
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 71%/85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D2BLD100-12A-30S	100W	12V DC	10.42A	0.32Nm	0.96Nm	3000rpm	57mm	BLDC-BLD750	2.5kg
BLDC-D2BLD100-24A-30S	100W	24V DC	5.21A	0.32Nm	0.96Nm	3000rpm	57mm	BLDC-BLD300	2.5kg
BLDC-D2BLD100-36A-30S	100W	36V DC	3.4A	0.32Nm	0.96Nm	3000rpm	57mm	BLDC-BLD120A	2.5kg
BLDC-D2BLD100-48A-30S	100W	48V DC	2.60A	0.32Nm	0.96Nm	3000rpm	57mm	BLDC-BLD300	2.5kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

## Line Define

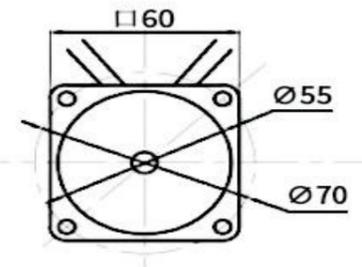
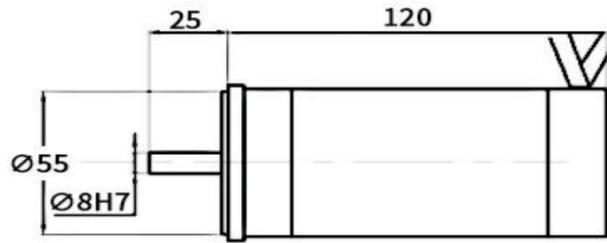
Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 150W BLDC Motor - 12V

Unit: mm



## Basic Information

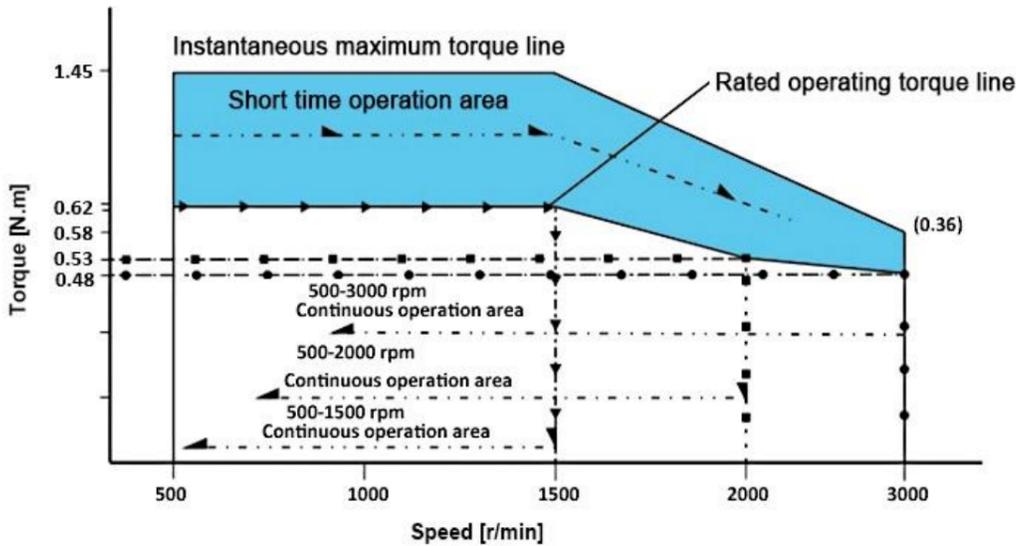
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 71%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D2BLD150-12A-30S	150W	12V DC	15.63A	0.48Nm	1.43Nm	3000rpm	60mm	BLDC-KVD2412N	3kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

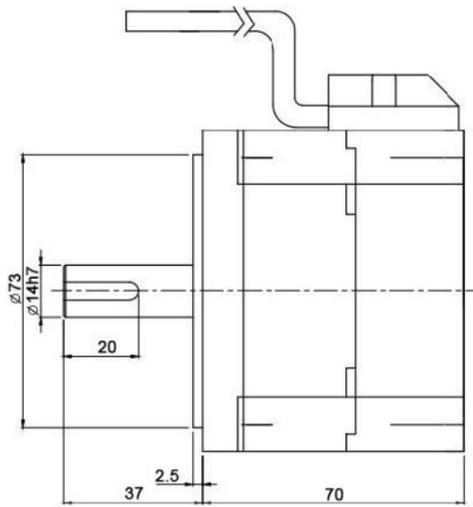
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

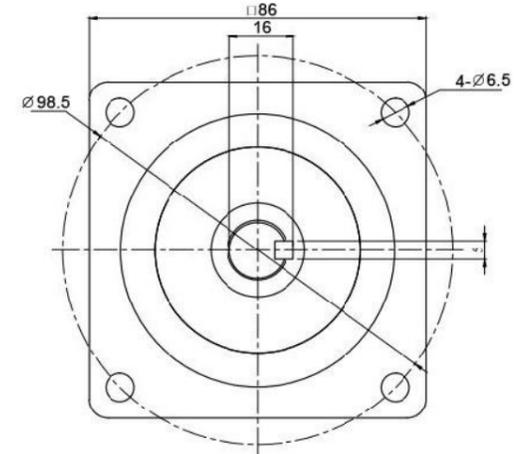
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 200W BLDC Motor - 12V/24V/36V/48V



Unit: mm



## Basic Information

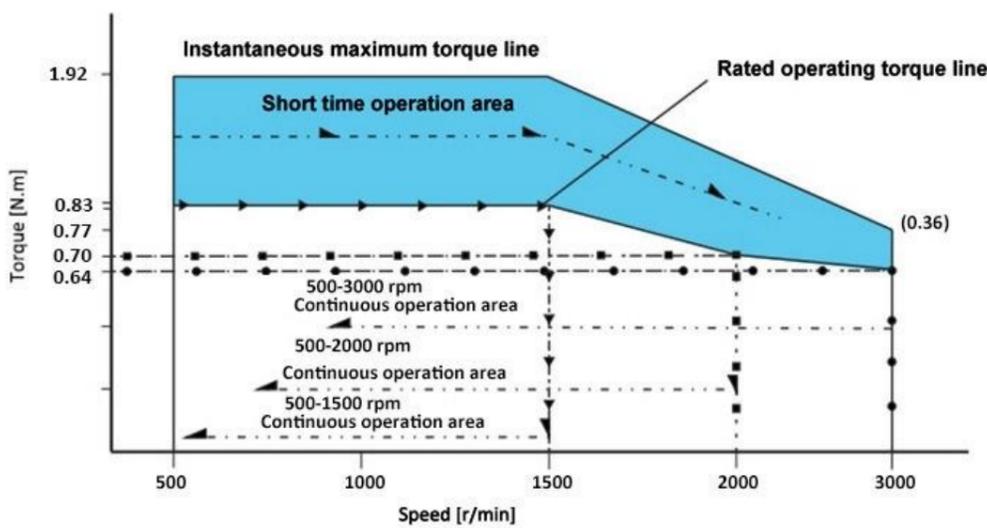
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 71%/85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D5BLD200	200W	12V DC	20.83A	0.64Nm	1.91Nm	3000rpm	86mm	BLDC-KVD2412N	3kg
BLDC-D5BLD200	200W	24V DC	10.4A	0.64Nm	1.91Nm	3000rpm	86mm	BLDC-BLD750	3kg
BLDC-D5BLD200	200W	36V DC	6.94A	0.64Nm	1.91Nm	3000rpm	86mm	BLDC-BLD300	3kg
BLDC-D5BLD200	200W	48V DC	5.21A	0.64Nm	1.91Nm	3000rpm	86mm	BLDC-BLD300	3kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

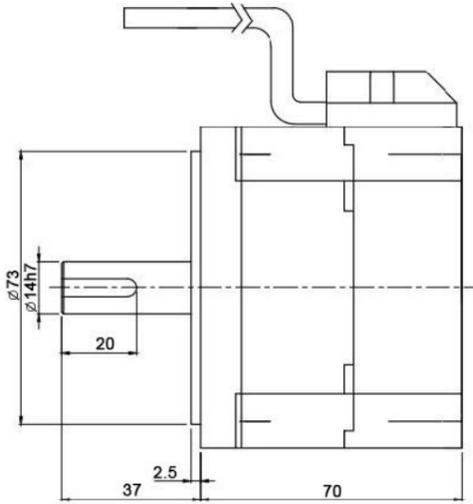
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

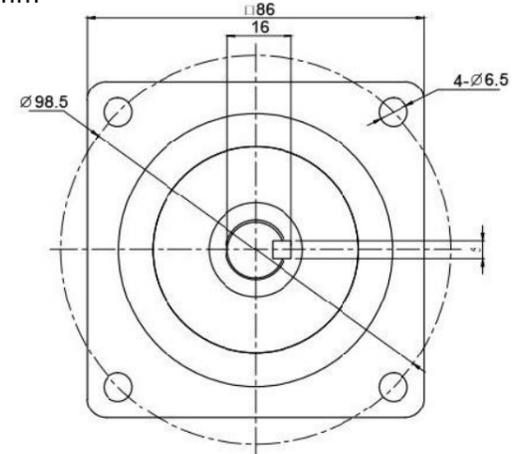
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 250W BLDC Motor - 12V/24V/36V/48V



Unit: mm



## Basic Information

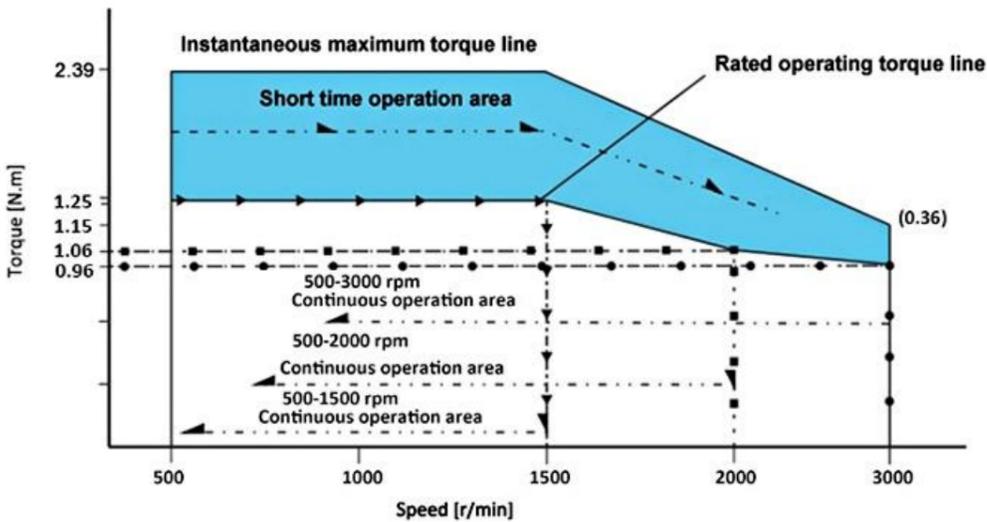
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 71%/85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D5BLD250	250W	12V DC	26.06A	0.8Nm	2.39Nm	3000rpm	86mm	BLDC-KVD2412N	3kg
BLDC-D5BLD250	250W	24V DC	13A	0.8Nm	2.39Nm	3000rpm	86mm	BLDC-BLD750	3kg
BLDC-D5BLD250	250W	36V DC	8.59A	0.8Nm	2.39Nm	3000rpm	86mm	BLDC-BLD750	3kg
BLDC-D5BLD250	250W	48V DC	6.51A	0.8Nm	2.39Nm	3000rpm	86mm	BLDC-BLD750	3kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

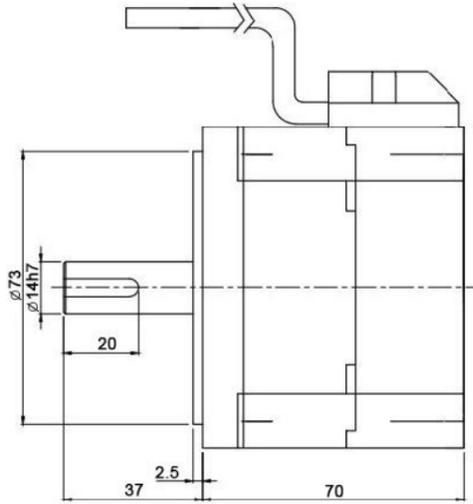
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

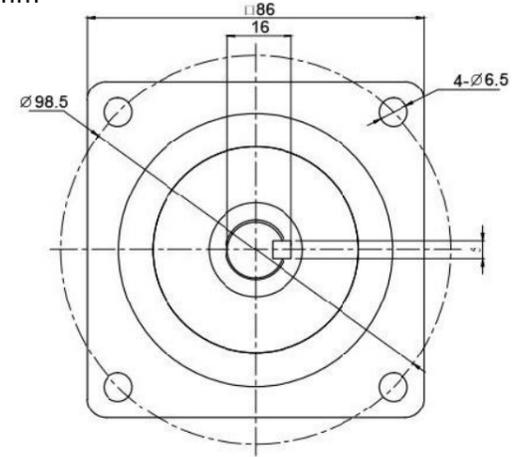
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 300W BLDC Motor - 12V/24V/36V/48V



Unit: mm



## Basic Information

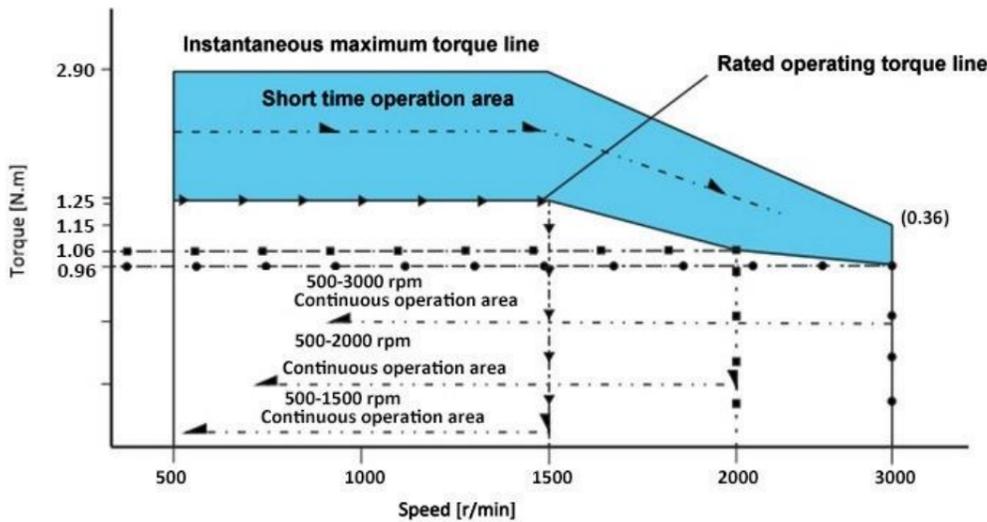
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 71%/85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D5BLD300	300W	12V DC	31.25A	0.96Nm	2.87Nm	3000rpm	86mm	BLDC-KVD2412N	6kg
BLDC-D5BLD300	300W	24V DC	15.6A	0.96Nm	2.87Nm	3000rpm	86mm	BLDC-BLD750	6kg
BLDC-D5BLD300	300W	36V DC	10.42A	0.96Nm	2.87Nm	3000rpm	86mm	BLDC-BLD4850	6kg
BLDC-D5BLD300	300W	48V DC	7.81A	0.96Nm	2.87Nm	3000rpm	86mm	BLDC-BLD750	6kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

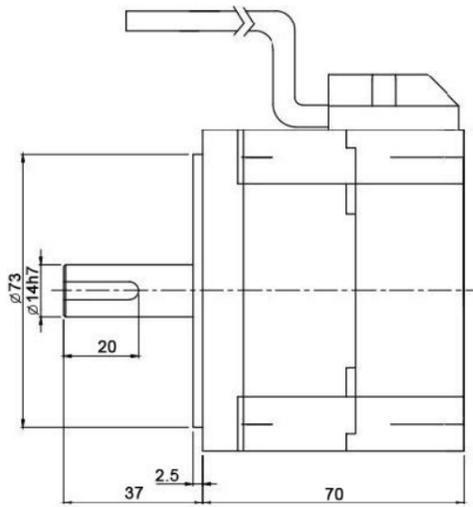
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

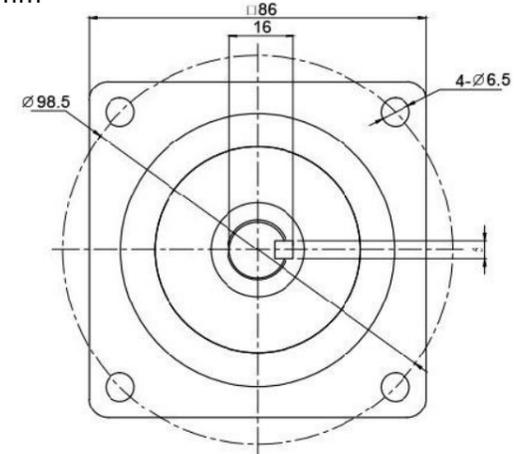
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 350W BLDC Motor - 12V/24V/48V



Unit: mm



## Basic Information

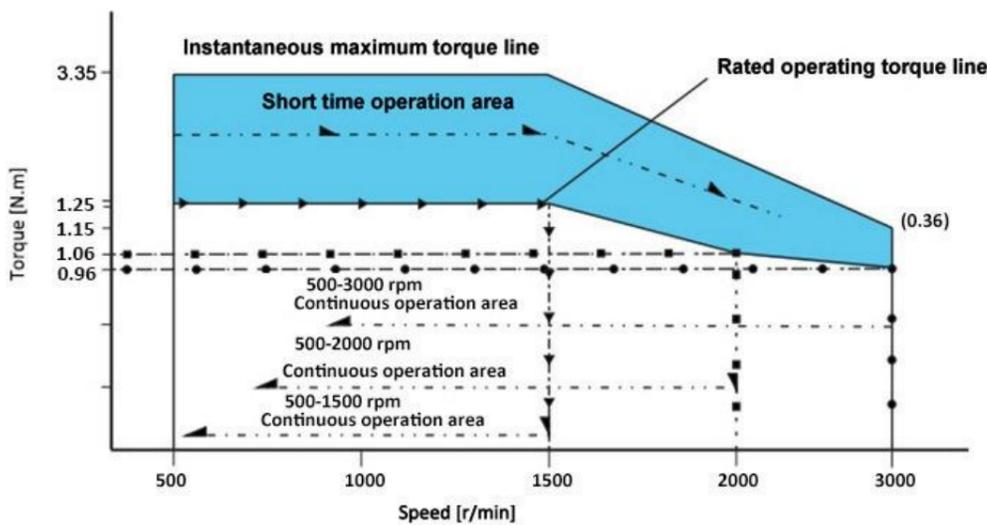
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 71%/85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D5BLD350	350W	12V DC	36.94A	1.12Nm	3.37Nm	3000rpm	86mm	BLDC-KVD2412N	6kg
BLDC-D5BLD350	350W	24V DC	18.47A	1.12Nm	3.37Nm	3000rpm	86mm	BLDC-BLD750	6kg
BLDC-D5BLD350	350W	36V DC	12.19A	1.12Nm	3.37Nm	3000rpm	86mm	BLDC-BLD750	6kg
BLDC-D5BLD350	350W	48V DC	9.21A	1.12Nm	3.37Nm	3000rpm	86mm	BLDC-BLD750	6kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

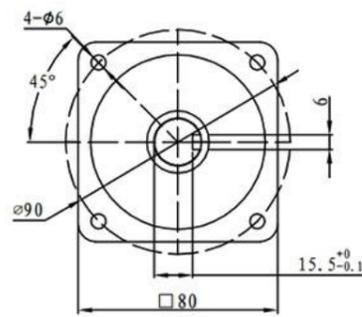
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

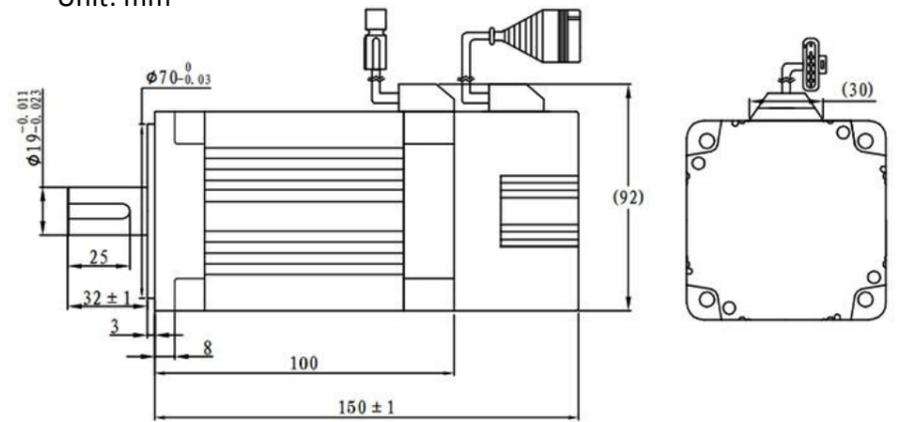
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 400W BLDC Motor - 24V/48V



Unit: mm



## Basic Information

- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-80WDM01330	400W	24V DC	21.3A	1.3Nm	2.54Nm	3000rpm	80mm	BLDC-KBL	2.4kg
BLDC-80WDM01330	400W	48V DC	10.6A	1.3Nm	0.96Nm	3000rpm	80mm	BLDC-KBL	2.4kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

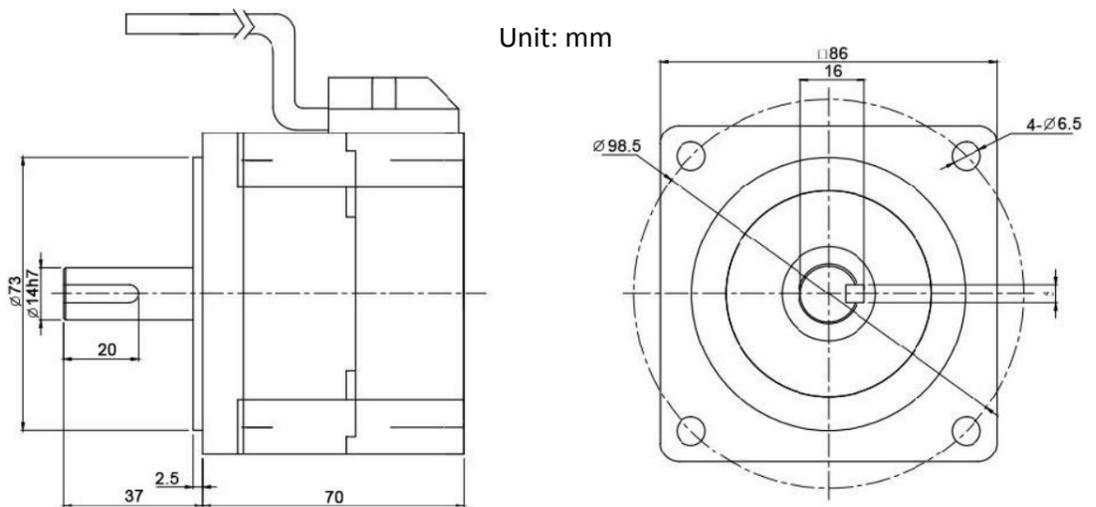
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 500W BLDC Motor - 24V/48V



## Basic Information

- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 71%/85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D5BLD500	500W	24V DC	26.1A	2.4Nm	7.5Nm	2000rpm	86mm	BLDC-BD50	3kg
BLDC-D5BLD500	500W	48V DC	13.09A	2.4Nm	7.5Nm	2000rpm	86mm	BLDC-BD50	3kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Line Define

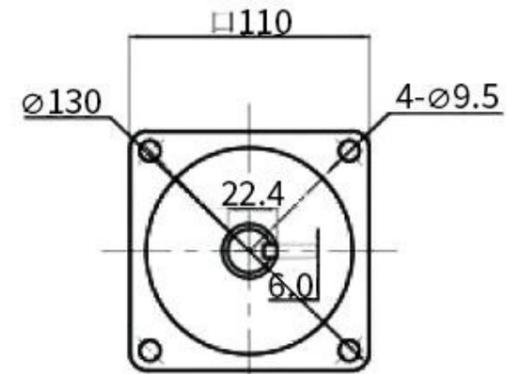
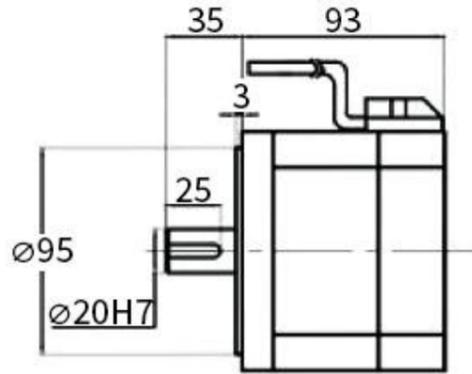
Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 600W BLDC Motor - 24V/36V/48V

Unit: mm



## Basic Information

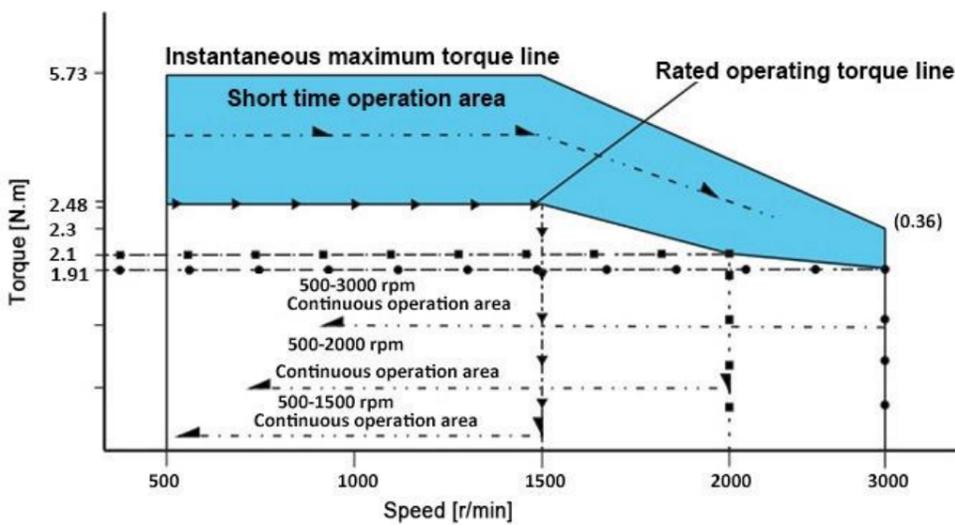
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 85%
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D110BLD600-24A -30S	600W	24V DC	31.2A	1.91Nm	5.73Nm	3000rpm	110mm	BLDC-BD100	6.6kg
BLDC-D110BLD600-36A -30S	600W	36V DC	20.83A	1.91Nm	5.73Nm	3000rpm	110mm	BLDC-BLD750	6.6kg
BLDC-D110BLD600-48A-30S	600W	48V DC	15.63A	1.91Nm	5.73Nm	3000rpm	110mm	BLDC-BLD750	4.5 kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

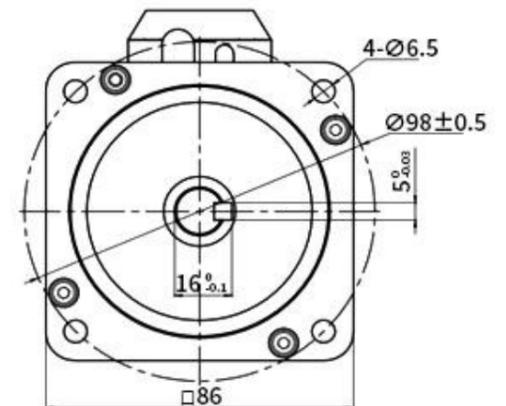
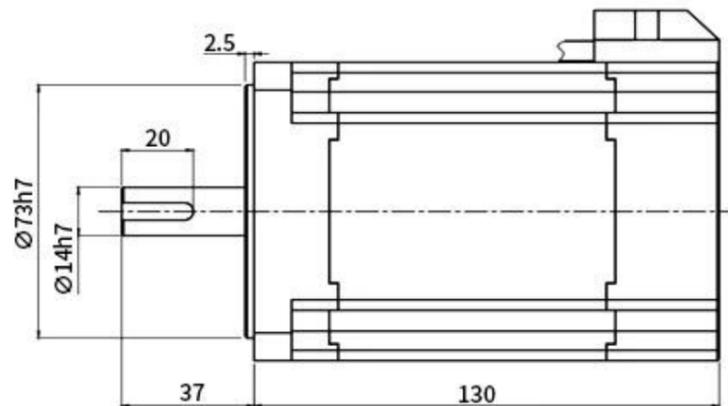
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 750W BLDC Motor - 24V/36V/48V



Unit: mm



## Basic Information

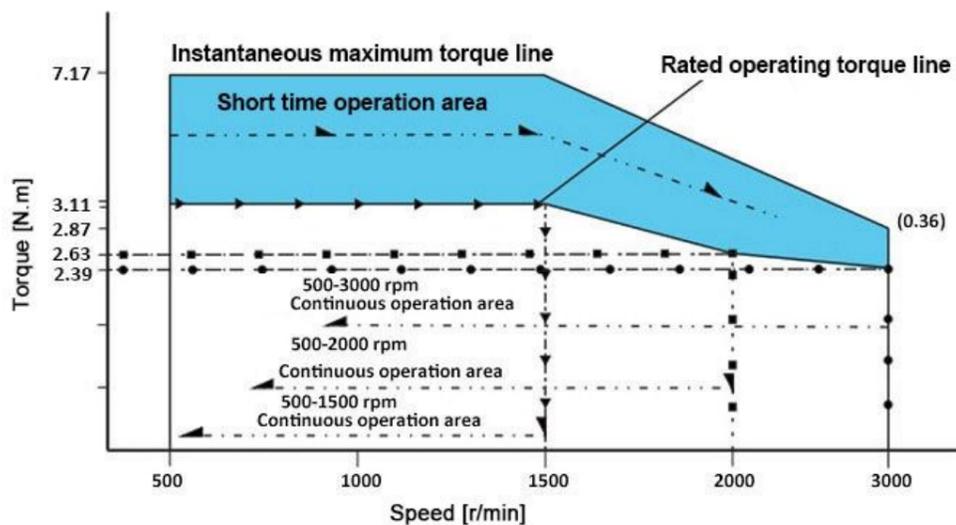
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 85%
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D5BLD750-24A -30S	750W	24V DC	39A	2.39Nm	7.16Nm	3000rpm	86mm	BLDC-BD100	8kg
BLDC-D5BLD750-36A -30S	750W	36V DC	26.04A	2.39Nm	7.16Nm	3000rpm	86mm	BLDC-BD100	8kg
BLDC-D5BLD750-48A-30S	750W	48V DC	19.52A	2.39Nm	7.16Nm	3000rpm	86mm	BLDC-BD100	4.5kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

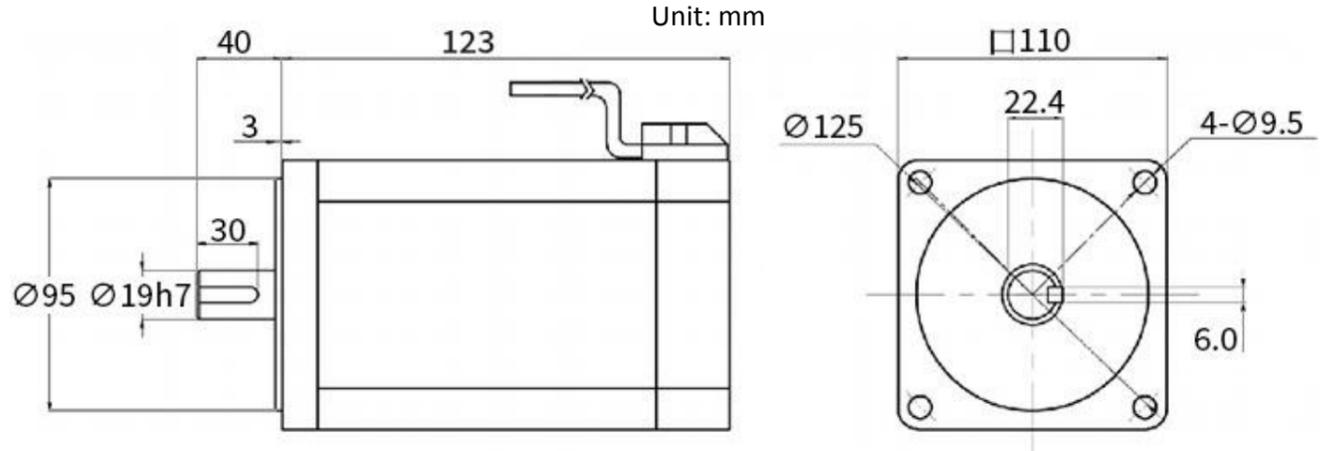
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 1000W BLDC Motor - 24V/36V/48V



## Basic Information

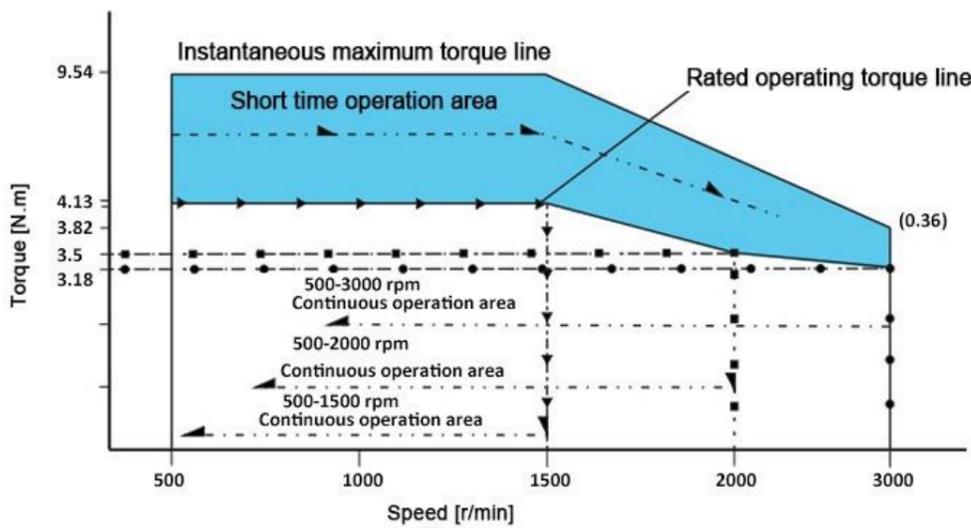
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D110BLD1000	1000W	24V DC	52.08A	3.18Nm	9.55Nm	3000rpm	110mm	BLDC-BD100	4.2kg
BLDC-D110BLD1000	1000W	36V DC	34.72A	3.18Nm	9.55Nm	3000rpm	110mm	BLDC-BD100	4.2kg
BLDC-D110BLD1000	1000W	48V DC	26.04A	3.18Nm	9.55Nm	3000rpm	110mm	BLDC-BD100	4.2kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

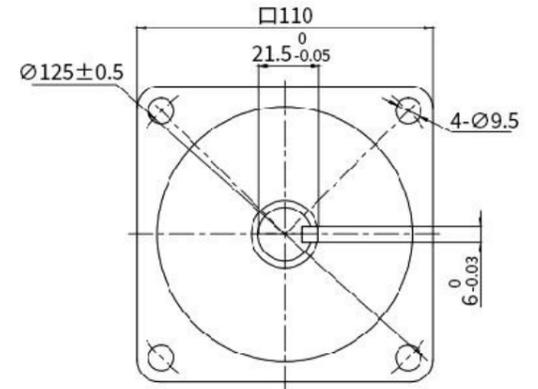
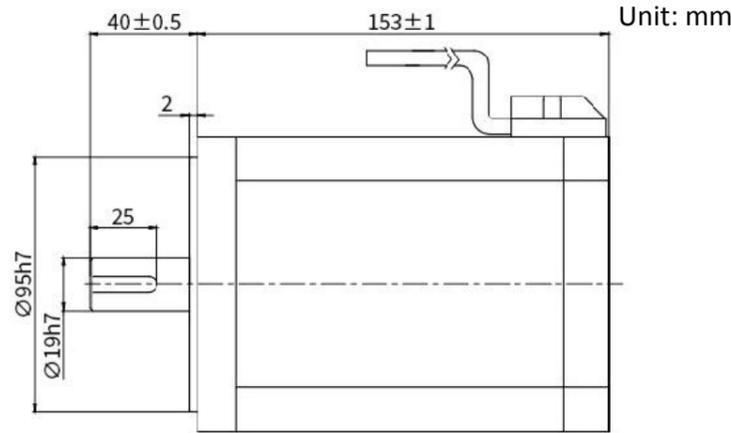
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 1300W BLDC Motor - 24V



## Basic Information

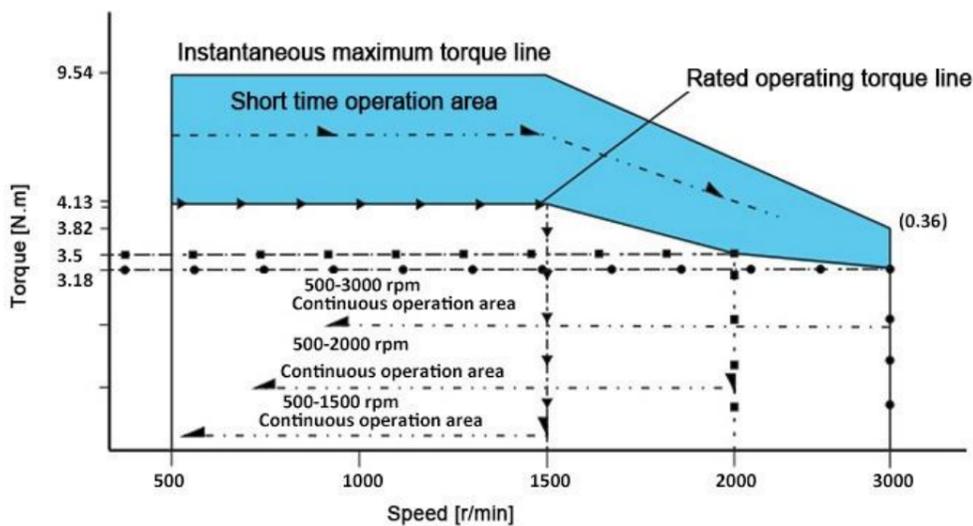
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D110BLDC1300-24A-30S	1300W	24V DC	67.7A	4.1Nm	9.55Nm	3000rpm	110mm	BLDC-KEB	5.65kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

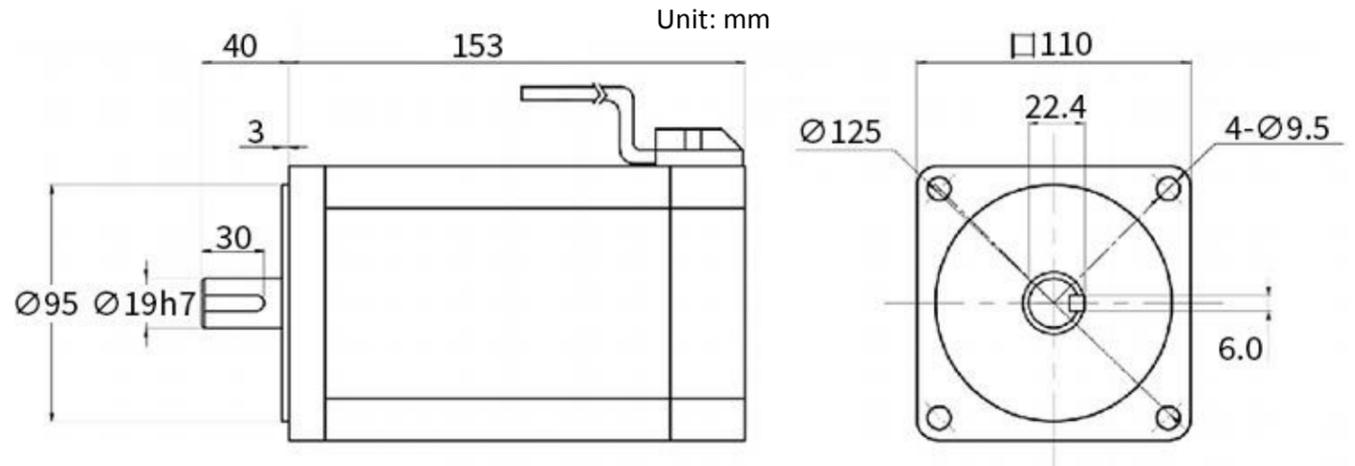
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 1500W BLDC Motor - 36V/48V



## Basic Information

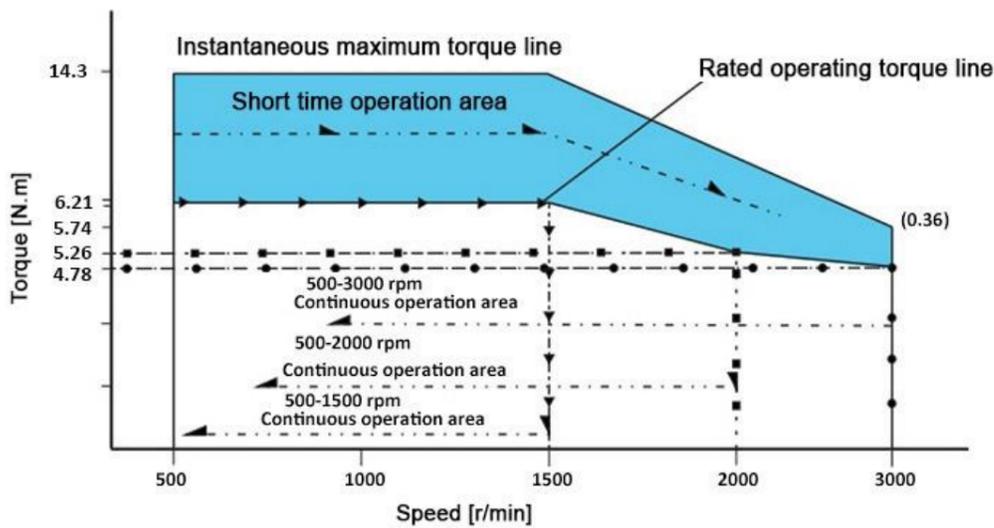
- Phase: 3 Phase
- Protection Grade: IP54
- Working Efficiency: 85%
- Motor Lead Length: 1 meter
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D110BLD1500	1500W	36V DC	52.08A	4.78Nm	14.33Nm	3000rpm	110mm	BLDC-BD100	5.5kg
BLDC-D110BLD1500	1500W	48V DC	39.06A	4.78Nm	14.33Nm	3000rpm	110mm	BLDC-BD100	5.5kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



- **Instantaneous maximum torque line:** This torque represents the peak load impact when the motor starts. If exceeded, the driver's over-current protection will trigger, stopping the motor.
- **Short-time operation area:** The BLDC motor can operate briefly within this torque range at various speeds. Prolonged operation may cause overheating, potentially leading to motor shutdown or damage.
- **Rated operating torque line:** At different speeds, this torque level is the electric DC motor's rated load, allowing long-duration operation without issues.
- **Continuous operating area:** The brushless DC motor can run continuously within this zone at varying speeds, maintaining stable operation.

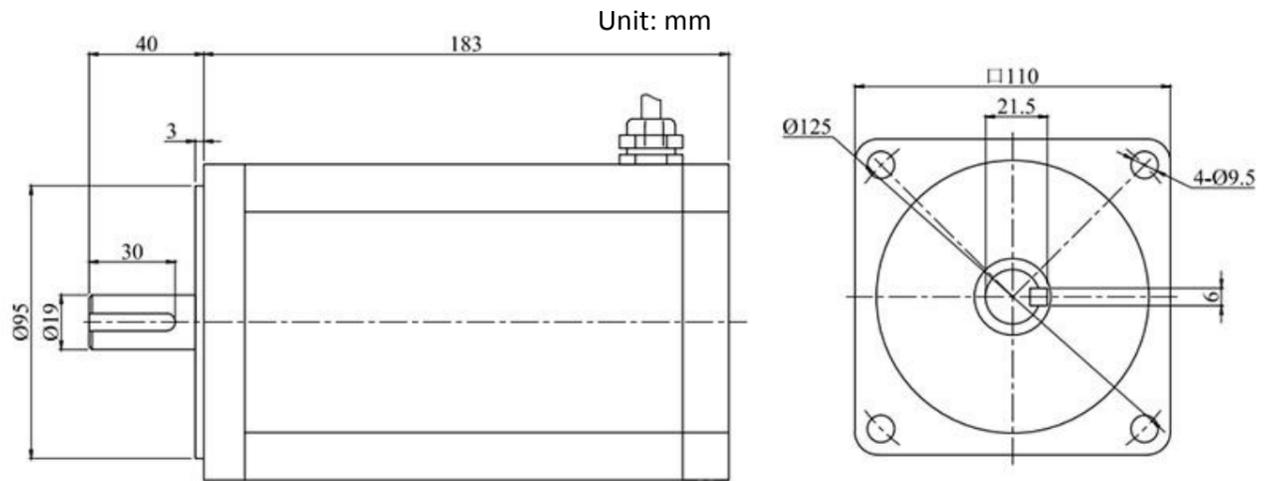
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 1900W BLDC Motor - 24V/48V/72V/96V



## Basic Information

- **Phase:** 3 Phase
- **Protection Grade:** IP54
- **Working Temperature:** 10°C~+40°C
- **Humidity:** ≤90% (no condensation)
- **Number of Poles:** 4 pairs of poles (8 poles)
- **Motor Lead Length:** 1 meter
- **Brake Length:** 40-50mm
- **Motor Lead Length:** 30cm
- **Brake Apparatus Voltage:** 24V DC/ 48V DC, (Electromagnetic brake will trigger when the DC supply cuts off)
- **Insulation Grade:** F
- **Certificate:** CE, RoHS, ISO/TS16949

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-110BLD1900	1900W	24V DC	100.2A	6Nm	18Nm	3000rpm	110mm	BLDC-KEB	6.6kg
BLDC-110BLD1900	1900W	48V DC	49.5A	6Nm	18Nm	3000rpm	110mm	BLDC-BD100	6.6kg
BLDC-110BLD1900	1900W	72V DC	37A	6Nm	18Nm	3000rpm	110mm	BLDC-BD100	6.6kg
BLDC-110BLD1900	1900W	96V DC	25A	6Nm	18Nm	3000rpm	110mm	BLDC-KEB	6.6kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

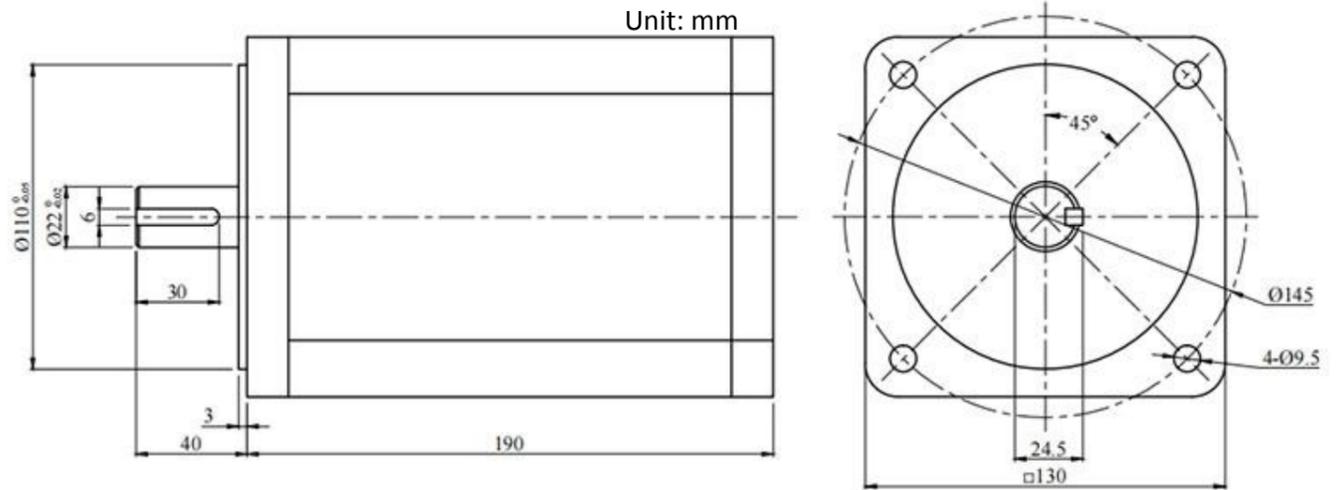
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

# 2000W BLDC Motor - 24V/48V/72V/96V



## Basic Information

- **Phase:** 3 Phase
- **Protection Grade:** IP54
- **Working Efficiency:** 85%
- **Working Temperature:** -20°C~+50°C
- **Humidity:** ≤90% (no condensation)
- **Brake Length:** 40-50mm
- **Motor Lead Length:** 30cm
- **Insulation Grade:** F
- **Certificate:** CE, RoHS, ISO/TS16949

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D130BLD2000	2000W	24V DC	102.7A	10Nm	30Nm	2000rpm	130mm	BLDC-KEB	12kg
BLDC-D130BLD2000	2000W	48V DC	51.3A	10Nm	30Nm	2000rpm	130mm	BLDC-KEB	12kg
BLDC-D130BLD2000	2000W	72V DC	34.2A	10Nm	30Nm	2000rpm	130mm	BLDC-KEB	12kg
BLDC-D130BLD2000	2000W	96V DC	25.7A	10Nm	30Nm	2000rpm	130mm	BLDC-KEB	12kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

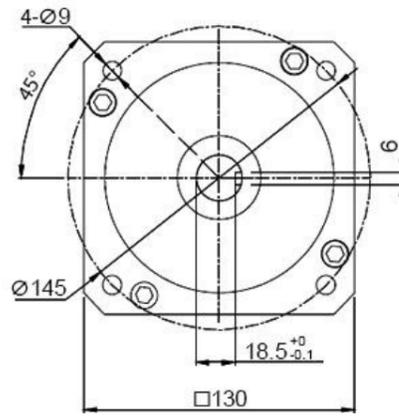
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

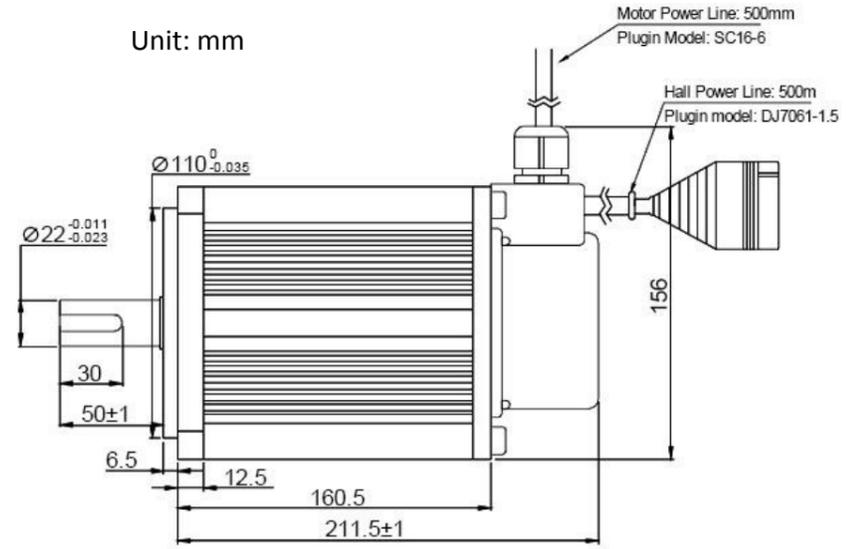
## Details



# 2300W BLDC Motor - 48V/72V/96V



Unit: mm



## Basic Information

- Phase: 3 Phase
- Protection Grade: IP65
- Working Efficiency: 85%
- Motor Lead Length: 30cm
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-DH130BLD2300	2300W	48V DC	60A	7.32Nm	23Nm	3000rpm	130mm	BLDC-KBL/BLDC-KEB	9.05kg
BLDC-DH130BLD2300	2300W	72V DC	40A	7.32Nm	23Nm	3000rpm	130mm	BLDC-KBL/BLDC-KEB	9.05kg
BLDC-DH130BLD2300	2300W	96V DC	30A	7.32Nm	23Nm	3000rpm	130mm	BLDC-KBL/BLDC-KEB	9.05kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

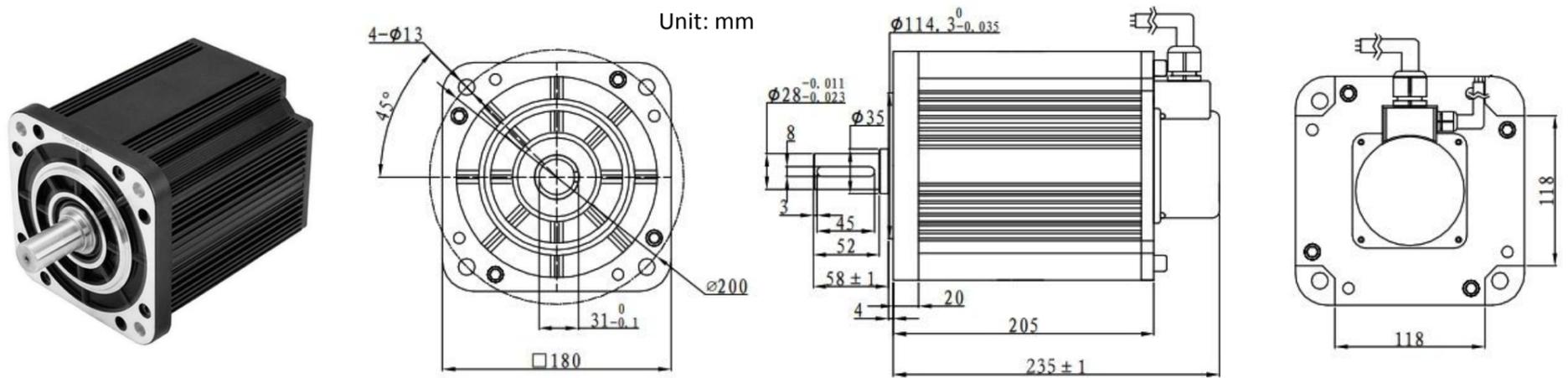
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

## Details



# 2500W BLDC Motor - 48V/72V/96V



## Basic Information

- **Phase:** 3 Phase
- **Protection Grade:** IP65
- **Working Efficiency:** 85%
- **Working Temperature:** 10°C~+40°C
- **Humidity:** ≤90% (no condensation)
- **Motor Lead Length:** 30cm
- **Insulation Grade:** F
- **Certificate:** CE, RoHS, ISO/TS16949

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-D180BLD2500	2500W	48V DC	62A	12Nm	30Nm	2000rpm	180mm	BLDC-KBL	18.5kg
BLDC-D180BLD2500	2500W	72V DC	41A	12Nm	30Nm	2000rpm	180mm	BLDC-KBL	18.5kg
BLDC-D180BLD2500	2500W	96V DC	31A	12Nm	30Nm	2000rpm	180mm	BLDC-KBL	18.5kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

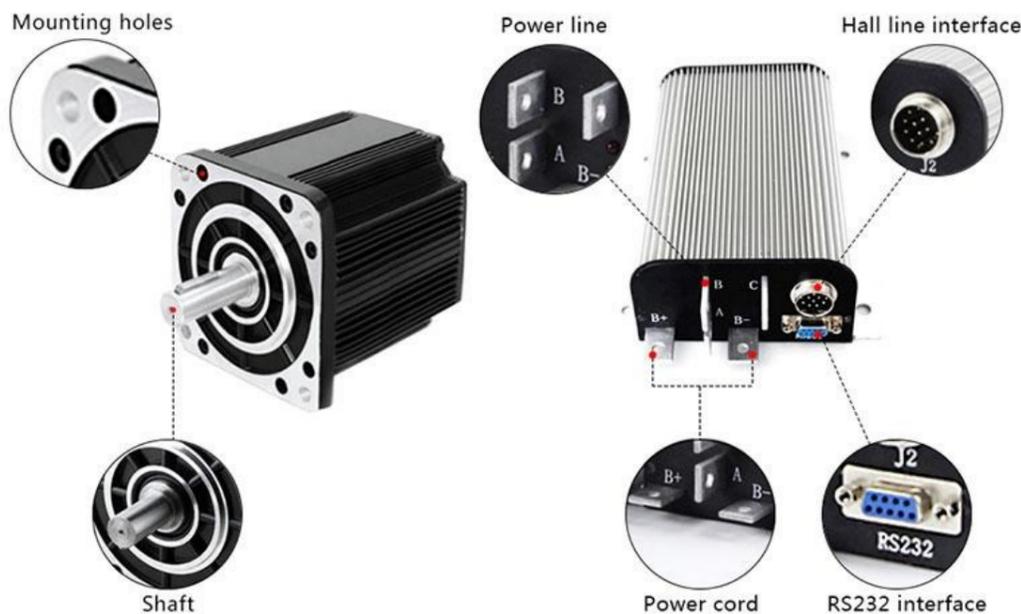
## Line Define

Power Wire		Hall Wire	
Red	U	Red	5V
Yellow	V	Black	GND
Black	W	Blue	Hu
		Green	Hv
		White	Hw

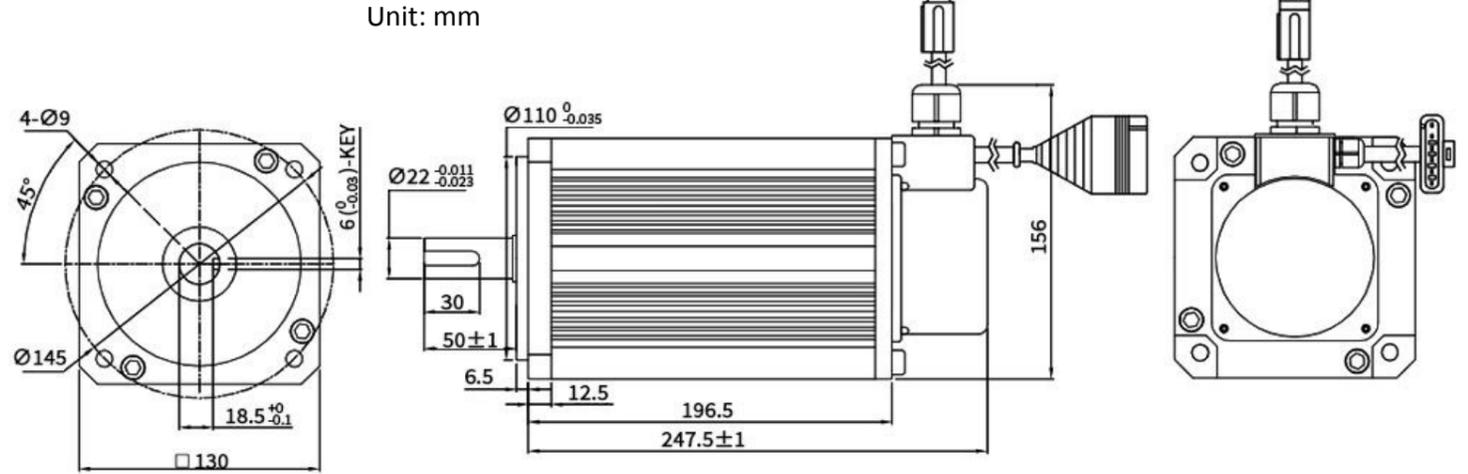
## Customizable Items

Motor Length	Yes
Motor Shaft	Yes
Speed	Yes
Voltage	Yes
Power	Yes
Motor Lead	Yes
Controller Interface	Yes

## Details



# 3000W BLDC Motor - 48V/72V/96V



## Basic Information

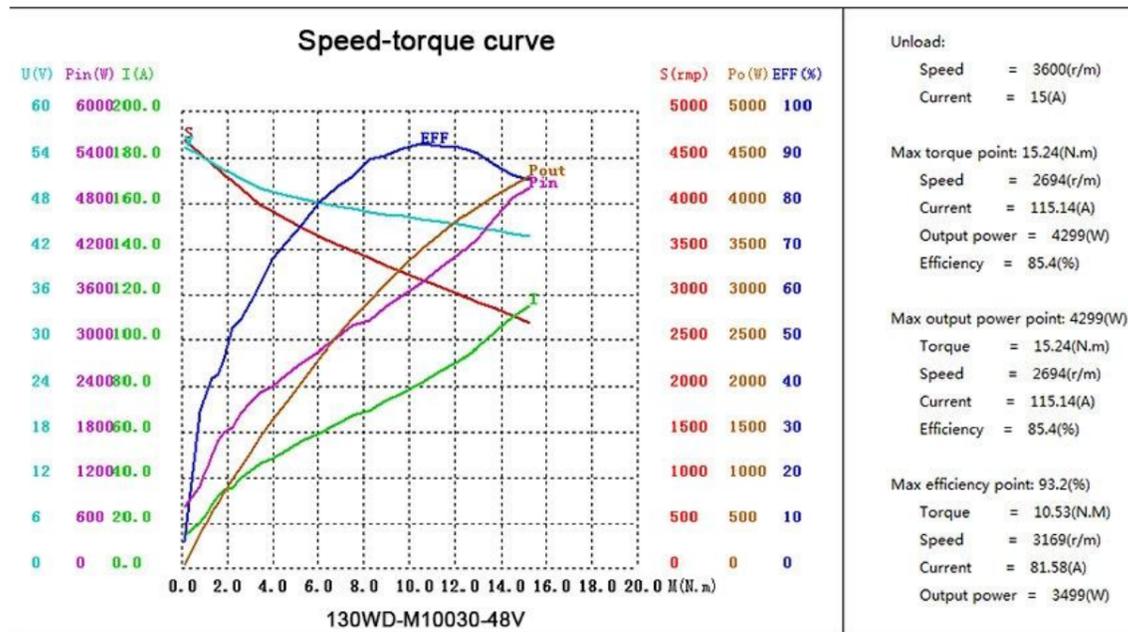
- Phase: 3 Phase
- Protection Grade: IP65
- Working Efficiency: 85%
- Working Temperature: 10°C~+40°C
- Humidity: ≤90% (no condensation)
- Motor Lead Length: 30cm
- Insulation Grade: F
- Certificate: CE, RoHS, ISO

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-130WDM10030	3000W	48V DC	77A	10Nm	20Nm	3000rpm	130mm	BLDC-KBL/BLDC-KEB	12kg
BLDC-130WDM10030	3000W	72V DC	51.3A	10Nm	20Nm	3000rpm	130mm	BLDC-KBL/BLDC-KEB	12kg
BLDC-130WDM10030	3000W	96V DC	38.5A	10Nm	20Nm	3000rpm	130mm	BLDC-KBL/BLDC-KEB	12kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



## Line Define

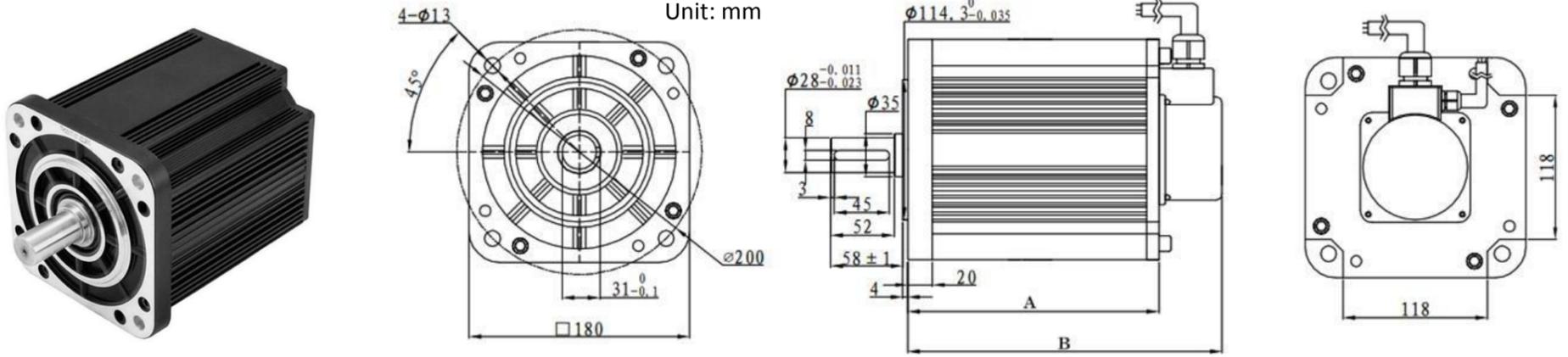
### Power Wire

Red	Yellow	Blue
Motor U	Motor V	Motor W

### Feedback Wire

Hall Line Color	Hall Signal Definition	Plug Serial Number
Orange and Black	5V	1
Orange	0V	2
Yellow	Hall A	3
Blue	Hall B	4
Green	Hall C	5

# 3800W BLDC Motor - 48V/72V/96V



## Basic Information

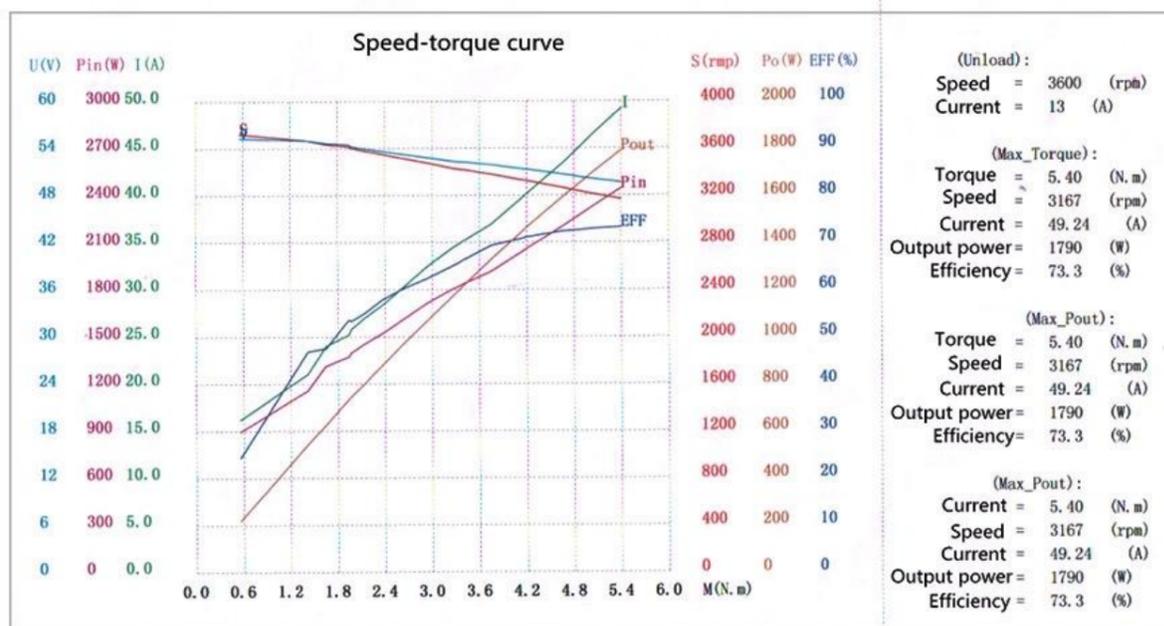
- Phase: 3 Phase
- Protection Grade: IP65
- Working Efficiency: 85%
- Working Temperature: 10°C~+40°C
- Humidity: ≤90% (no condensation)
- Motor Lead Length: 30cm
- Insulation Grade: F
- Certificate: CE, RoHS, ISO/TS16949

## Specification

Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-180WDM12030	3800W	48V DC	92A	12Nm	30Nm	3000rpm	180mm	BLDC-KBL	18.6kg
BLDC-180WDM12030	3800W	72V DC	62A	12Nm	30Nm	3000rpm	180mm	BLDC-KBL	18.6kg
BLDC-180WDM12030	3800W	96V DC	46A	12Nm	30Nm	3000rpm	180mm	BLDC-KBL	18.6kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Speed - Torque Curve



## Line Define

### Power Wire

Red	Yellow	Blue
Motor U	Motor V	Motor W

### Feedback Wire

Hall Line Color	Hall Signal Definition	Plug Serial Number
Orange and Black	5V	1
Orange	0V	2
Yellow	Hall A	3
Blue	Hall B	4
Green	Hall C	5

# 5000W BLDC Motor - 48V/72V/96V



## Basic Information

- **Phase:** 3 Phase
- **Protection Grade:** IP65
- **Working Efficiency:** 85%
- **Brake Apparatus Voltage:** 24V DC/ 48V DC, (Electromagnetic brake will trigger when the DC supply cuts off)
- **Brake Length:** 40-50mm
- **Motor Lead Length:** 30cm
- **Number of Poles:** 4 pairs of poles (8 poles)
- **Insulation Grade:** F
- **Certificate:** CE, RoHS, ISO/TS16949

## Specification

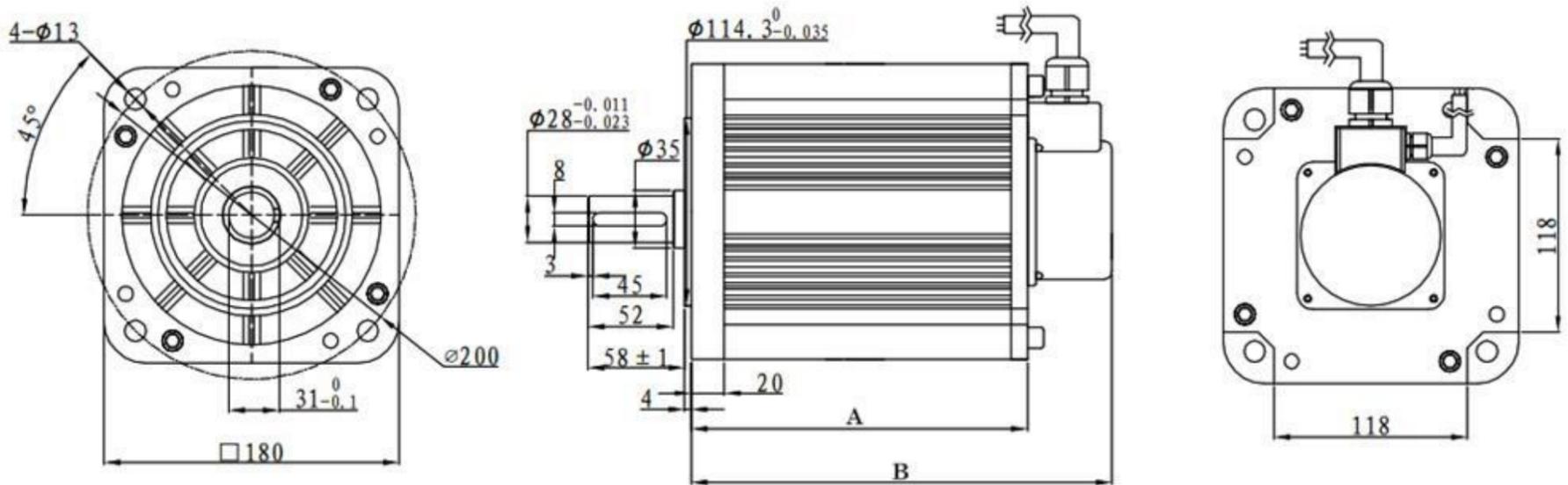
Model	Rated Power	Rated Voltage	Rated Current	Rated Torque	Max. Torque	Rated Speed	Square Flange Size	Matched Controller	Weight
BLDC-180WDM16030	5000W	48V DC	123A	16Nm	42Nm	3000rpm	180mm	BLDC-KBL	18.6kg
BLDC-180WDM16030	5000W	72V DC	82A	16Nm	42Nm	3000rpm	180mm	BLDC-KBL	18.6kg
BLDC-180WDM16030	5000W	96V DC	62A	16Nm	42Nm	3000rpm	180mm	BLDC-KBL	18.6kg

Note: Power, voltage, speed, shaft, motor length, and motor lead of BLDC motors can be customized.

## Dimension (Unit: mm)

For 48V/72V BLDC Motor:

LA: 205mm, LB: 235mm



For 96V BLDC Motor:

