



QS MOTOR LTD

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8000W DC Brushless Car Motor (50H 273 V3)



Motor Size	Motor Diameter	303mm
	Recommendation Hub	14 inch or more than 14 inch rim
	Axle	Single Shaft
	PCD	5x117mm (Customizable 100-117mm)
	CB	71mm (or Customizable 60-80mm)
Motor Phase	Number of Motor Phase	3
	Cross Section of Cable	16 Square Millimeter
Motor Power	Rated Power	8000W
	Max. Power	12800W (peak 16000W)
	Rated Voltage	72V (option 84V, 96V, 108V, 120V)
	Continuous Current	127A
	Peak Current	190A (peak 300A less than 5 seconds)
	Magnet Height	50mm
	Number of Pole Pairs	16 Pairs
	Max. Torque	90 - 302N.m
	Max. Efficiency	91%
	Rotating Speed	550 - 1200rpm
	Max. Speed of Scooter	30 - 110km/h
Motor Hall Sensor	Hall Sensor	2 sets (1 for use and 1 for backup)
	Hall Working Votalge	5V (option 12V)
Motor Brake System	Brake Type	Disc Brake
	Disc Size	220mm
Remark	Waterproof Grade	IP54
	Max. Working Temperature	70 °C (peak 120°C in 5 - 10 second)
	Temperature Sensor	KTY83-122
	Color	Black
	Weight	26kgs
	Unit Packing	43x43x41cm/carton
Option	Temperature Sensor	KTY83-122

Technical drawing of a mechanical assembly, showing three views: a front view, a side view (cross-section), and a rear view.

Front View (Left): Shows a circular flange with 12 mounting holes. The central hub has a diameter of $\phi 60 \pm 0.10$. The flange has a diameter of $\phi 118$. The mounting holes are spaced at $1-108 \times 13$ (pitch circle diameter).

Side View (Middle): Shows the internal components, including a central shaft, bearings, and a motor or actuator. The total height is 237 ± 1 . The central shaft has a diameter of $\phi 36 \pm 0.02$. The motor/actuator has a diameter of $\phi 56 \pm 0.10$. The flange has a diameter of $\phi 118$. The mounting holes are spaced at $1-108 \times 13$ (pitch circle diameter). The flange has a diameter of $\phi 118$. The mounting holes are spaced at $1-108 \times 13$ (pitch circle diameter).

Rear View (Right): Shows the opposite side of the flange with 4 mounting holes. The central hub has a diameter of $\phi 60 \pm 0.10$. The flange has a diameter of $\phi 118$. The mounting holes are spaced at $1-108 \times 13$ (pitch circle diameter).


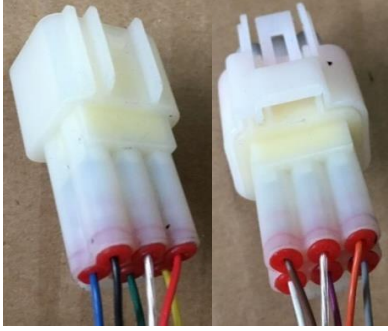
Dimensions:

- Front View: $\phi 60 \pm 0.10$, $\phi 118$, $1-108 \times 13$ (pitch circle diameter).
- Side View: 237 ± 1 , $\phi 36 \pm 0.02$, $\phi 56 \pm 0.10$, $\phi 118$, $1-108 \times 13$ (pitch circle diameter).
- Rear View: $\phi 60 \pm 0.10$, $\phi 118$, $1-108 \times 13$ (pitch circle diameter).



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Motor has 3 Phase Cables and 2 sets Hall Sensor Plugs	
3 Phase Cables	2 Sets Hall Sensor Plugs
	
Motor Phase Cable	
Motor's YELLOW Cable (big cable), A, U phase.	
Motor's GREEN Cable (big cable), B, V phase.	
Motor's BLUE Cable (big cable), C, W phase.	
The Hall Sensor Plug Set 1.	
The Hall Sensor's YELLOW Cable (small cable, hall A).	
The Hall Sensor's GREEN Cable (small cable, hall B).	
The Hall Sensor's BLUE Cable (small cable, hall C).	
The Hall Sensor's RED Cable (small cable, +5V DC).	
The Hall Sensor's BLACK Cable (small cable, GND).	
The Hall Sensor's Transparent/Crystal Cable (Temperature Sensor).	
The Hall Sensor Plug Set 2.	
The Hall Sensor's GRAY Cable (small cable, hall A).	
The Hall Sensor's PURPLE Cable (small cable, hall B).	
The Hall Sensor's WHITE Cable (small cable, hall C).	
The Hall Sensor's ORANGE Cable (small cable, +5V DC).	
The Hall Sensor's BROWN Cable (small cable, GND).	
The Hall Sensor's Transparent/Crystal Cable (Temperature Sensor).	
Important Notice.	
1. The function of 2 sets hall sensors are same. We use 1 set Hall Sensor Plug and the other 1 set for backup. Please note never try to connect 2 set hall sensor plugs to controller at same time.	
2. Please change the hall plug of controller if the hall plugs do not match with motor. The static electricity may damage the hall sensor of motor if you change the plug of motor.	