

Instruction of the Model DC Brushless Motor

Features:

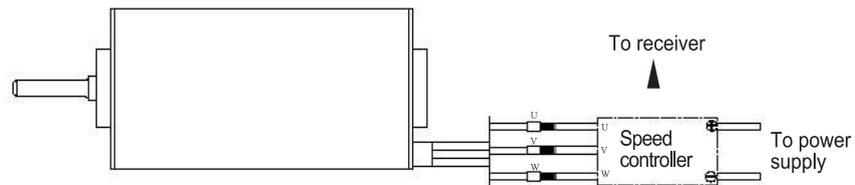
This product adopts the latest generation of structure design without Hall Sensors and slots, and uses high-tech aviation aluminum alloy as the shell and Neodymium-Boron material as the permanent magnet. Below are the outstanding technical features of WALKERA Model DC Brushless Motors.

- No magnetic cogging
- Spark free
- High efficiency
- Long service life
- Compact design - small dimensions
- High acceleration thanks to a low mass inertia
- Low electromagnetic interference
- Linearity between voltage and speed
- Linearity between load and speed
- Good heat dissipation, high overload ability
- Mainly linear motor characteristics, excellent control properties
- Able to bear high overloads for short periods

☆NOTE: All the WALKERA brushless motors should be accompanied by the original speed controller to properly work.

Connections:

- The connection of the brushless motor wires: The three wires of U, V, and W can freely connect to the original speed controller and it is not necessary for the wire colors to match with each other. You just exchange any two of the U, V and W to reverse the motor spinning direction.
- Down-lead length: 65 mm.



Specifications:

Product	Code no	Working voltage	Speed constant (KV)	No Load current (10V)	Dimension	Shaft diameter	Shaft extension	Mounting hole depth	Weight
		V	RPM/V	A	mm	mm	mm	mm	g
180L	WK-WS-20-001	6-18	3300	≤ 1	Φ20X40.0	Φ2.0	11.0	3.5	65
	WK-WS-20-002	6-18	3300	≤ 1	Φ20X40.0	Φ2.3	11.0	3.5	65
380M	WK-WS-28-001	6-18	3000	≤ 2	Φ28X47.0	Φ2.3	13.5	3.5	130
	WK-WS-28-002	6-18	3000	≤ 2	Φ28X47.0	Φ3.17	13.5	3.5	130
380S	WK-WS-28-003	6-18	3100	≤ 1.5	Φ28X37.5	Φ3.17	13.5	3.5	96
380L	WK-WS-28-004	6-18	2500	≤ 2	Φ28X52.5	Φ3.17	13.5	3.5	142
	WK-WS-28-005	6-18	1900	≤ 2	Φ28X52.5	Φ3.17	13.5	3.5	142
540M	WK-WS-36-001	6-25	1450	≤ 2	Φ36X58.5	Φ5.0	22.0	6	250
Outer-Rotor Motor	WK-WS-30-001	6-18	1200	≤ 1.0	Φ31X31.0	Φ3.0	34.5	1.5	66
Outer-Rotor Motor	WK-WS-30-002	6-18	1900	≤ 1.0	Φ31X32.5	Φ3.0	12.0	5	100
Outer-Rotor Motor	WK-WS-30-003	6-18	1200	≤ 1.0	Φ31X31.0	Φ3.0	41.5	1.5	66
Outer-Rotor Motor	WK-WS-26-001	6-18	3500	≤ 3.2	Φ26X32.5	Φ3.0	17.0	5.0	80
Outer-Rotor Motor	WK-WS-26-002	6-18	3500	≤ 3.5	Φ26X26.5	Φ3.0	14.0	3.0	42

☆When mounting the brushless motor, please notice the length of fixing screws. Too long screws will damage the motor winding and result in short circuit and damage to other component.

Statement:

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Model No.:WK-WS-26-001

Spezifikation:

Abmessungen:	Φ 26 x 32.5mm
Drehzahl (KV):	3500 RPM/V
Nulllast:	≤3.2A
Spannung:	6-18V
Wellenlänge:	17.0mm
Wellendurchmesser:	Φ 3.0mm
Gewicht:	80g



Model No.:WK-WS-12-003

Spezifikation:

Abmessungen:	Φ12 x 22mm
Drehzahl (KV):	11000 RPM/V
Nulllast:	≤0.7A
Spannung:	3.2-4.5V
Wellenlänge:	4mm
Wellendurchmesser:	Φ 1.5mm
Gewicht:	10.4g