



160VDC 90mm Brushless DC Electric Motor 220W Geared Bldc Motor

Basic Information

- Place of Origin: Changzhou, China
- Brand Name: Hontru
- Certification: CE ISO RoHS
- Model Number: HC86BLF
- Minimum Order Quantity: 1 set
- Price: Negotiation
- Packaging Details: Foam+Hard Carton or Wooden Case+Waterproof film
- Delivery Time: 5-10 working days
- Payment Terms: T/T, PayPal, Western Union
- Supply Ability: 10000pcs/month



Product Specification

- Name: 90mm Reduction Motor
- Gearbox Housing Material: Metal
- Backlash: $\leq 1.2^\circ$
- Radial Clearance: $\leq 0.05\text{mm}$
- Axial Clearance: $\leq 0.3\text{mm}$
- Highlight: **Brushless Electric Motor 220W ,
160VDC Brushless Electric Motor ,
Brushless DC Electric Motor 220W**



Product Description

90mm Reduction Motor

Features:

- ◆ Low noise
- ◆ Low fever
- ◆ Smooth operation
- ◆ Good acceleration performance

1. Gearbox housing material: metal
2. Backlash: $\leq 1.2^\circ$
3. Radial clearance: $\leq 0.05\text{mm}$
4. Axial clearance: $\leq 0.3\text{mm}$
5. The allowable torque of the gearbox must not be exceeded during use

Gearbox technical parameters:

Specification	Stage Level	Speed Ratio	60	90	115	140
Rated Output Torque (Nm)	L1	3	36	130	208	342
		4	48	140	290	542
		5	60	160	330	650
		6	58	120	240	410
		7	50	140	300	550
		8	45	130	230	450
		10	40	100	230	450
		15	36	130	208	342
	L2	20	48	140	290	542
		25	60	160	330	650
		30	55	150	310	600
		35	50	140	300	550
		40	45	120	230	500
		50	60	160	330	650
		60	55	150	310	600
		70	50	140	300	550
		80	45	110	230	410
		100	40	100	230	450
Scram Torque (Nm)	L1 L2	3~100	2.5times rated output torque			
Rated Input Speed (RPM)	L1 L2	3~100	5000	4000	4000	3000
Maximum Input Speed (RPM)	L1 L2	3~100	10000	8000	8000	6000
Return High Precision Clearance (Arc/Min)	L1	3~10	≤ 3	≤ 3	≤ 3	≤ 3
	L2	15~100	≤ 5	≤ 5	≤ 5	≤ 5
Return Standard Clearance (Arc/Min)	L1	3~10	≤ 5	≤ 5	≤ 5	≤ 5
	L2	15~100	≤ 8	≤ 8	≤ 8	≤ 8
Torsional Rigidity (NM/arcmin)	L1 L2	3~100	7	14	25	50
Maximum Radial Force (N)	L1 L2	3~100	1200	2450	4000	9000
Maximum Axial Force (N)	L1 L2	3~100	1 050	2200	4000	8300
Work Efficiency (%)	L1	3~10	≥ 97	≥ 97	≥ 97	≥ 97
	L2	15~100	≥ 94	≥ 94	≥ 94	≥ 94
Working Life (H)	L1 L2	3~100	≥ 20000			
Ambient Temperature ()	L1 L2	3~100	-10 ~ 45			
Lubrication Mode	L1 L2	3~100	Lifetime Lubrication			
Class Of Protection	L1 L2	3~100	IP65			
Mounting Direction	L1 L2	3~100	Any Direction			
Noise (db)	L1 L2	3~100	≤ 60	≤ 64	≤ 67	≤ 72
Moment Of Inertia Part (kg·cm ²)	L1	3	0.16	0.61	3.25	9.21
		4	0.14	0.48	2.74	7.54
		5	0.13	0.47	2.71	7.42
		6	0.13	0.45	2.67	7.34
		7	0.13	0.45	2.62	7.25
		8	0.13	0.45	2.61	7.19
		10	0.13	0.45	2.57	7.14
	L2	15	0.03	0.13	0.47	7.03
		20	0.03	0.13	0.47	2.71
		25	0.03	0.13	0.47	2.71
		30	0.03	0.13	0.47	2.71
		35	0.03	0.13	0.47	2.71
		40	0.03	0.13	0.47	2.71
		50	0.03	0.13	0.47	2.71
		60	0.03	0.13	0.47	2.71
		70	0.03	0.13	0.44	2.57

		80	0.03	0.13	0.44	2.57
		100	0.03	0.13	0.44	2.57



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