4720-420KV

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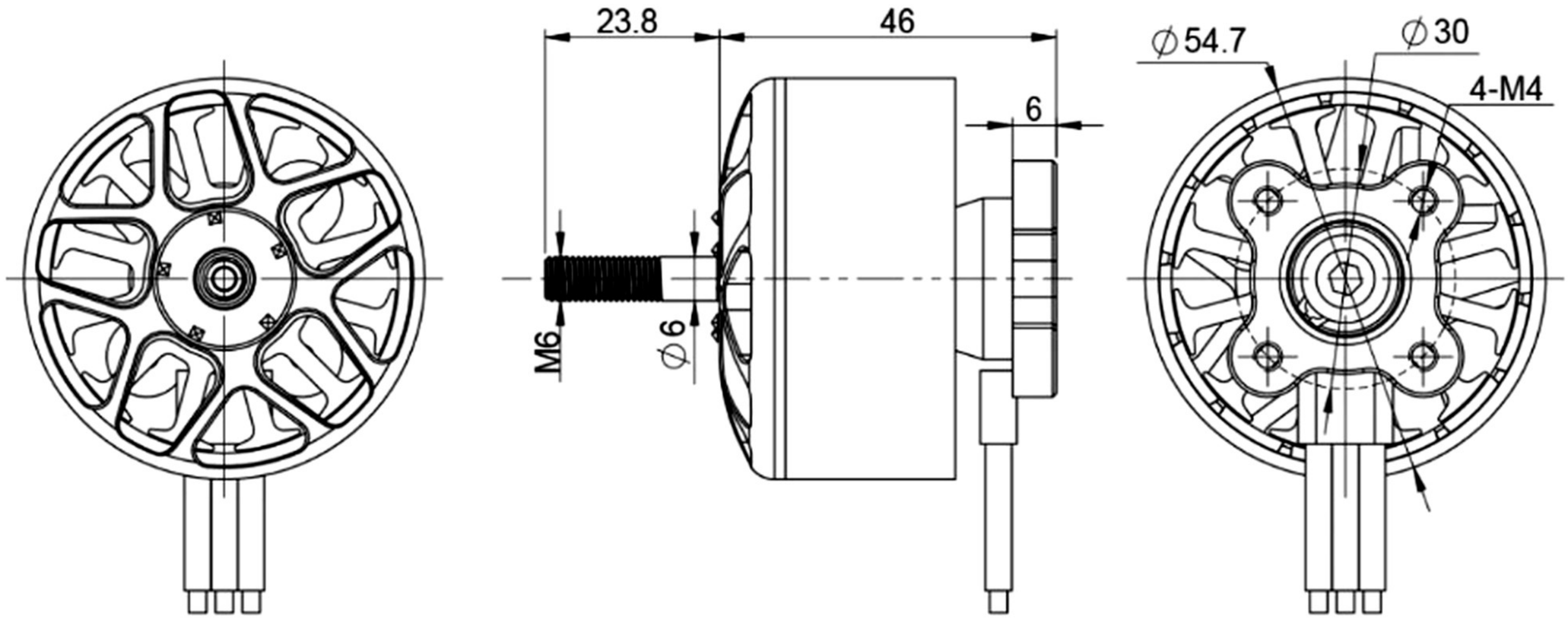


Pilotix 4720-420KV FPV motor featuring a 12N14P configuration with 47mm diameter by 20mm length stator dimensions. Operates within a voltage range of 22.2V to 33.6V with a rated voltage of 29.6V, delivering maximum power output of 3037.4W at maximum current draw of 99.7A. The motor exhibits 30mΩ internal resistance and 1.9A no-load current at 10V. Physical construction includes a 6mm diameter shaft extending 23.8mm in length, with overall motor dimensions of 54.7mm diameter by 69.8mm height. Equipped with 14AWG silicone cable measuring 600mm in length. Utilizes 30x30mm M4 mounting pattern with included M4x10mm mounting hardware. Unit weight is 336g.

Product details	
Model	4720-420KV
SKU	5542
Electrical specifications	
Motor KV	420 KV
Rated voltage	29.6 V
Operating voltage range	22.2 - 33.6 V
Maximum current	99.7 A
Maximum power	3037.4 W
No-load current	1.9 A @ 10 V
Internal resistance	30 mΩ
Mechanical specifications	
Configuration	12N14P
Stator size	47 x 20 mm
Shaft size	Ø6 x 23.8 mm
Motor dimensions	Ø54.7 x 69.8 mm
Silicone cable	14 AWG
Silicone cable length	600 mm
Mounting	30 x 30 mm (M4)

Mounting screws	M4 × 10 mm (x4)
Weight	336 g
Common	
Warranty	2 years

Mechanical specification



Motor performance data

Model	Propeller	Voltage (V)	Throttle (%)	Current (A)	Thrust (g)	Speed (RPM)	Efficiency (g/w)	Temperature (°C)
4720 420KV	HQ13X9-3	31.96	30	4.00	815	3824	6.38	92°C
		31.94	40	7.93	1426	5022	5.64	
		31.89	50	14.76	2213	6278	4.70	
		31.84	60	24.39	3159	7444	4.07	
		31.74	70	39.74	4313	8703	3.42	
		31.61	80	57.58	5469	9770	3.00	
		31.48	90	79.05	6580	10711	2.64	
		30.46	100	99.72	7232	11284	2.38	