

I/O Cable Specifications

I/O Signal	Sensor Line						Power Line		
	1	2	3	4	5	6	1	2	3
Wire Color	RD	BK	OR	BN	GY	VT	BK	BK	BK
Signal	Vec	GND	Hv	Hv	Hv	Thr	UV	WU	VW
Lead Wire	UL1015 AWG24						600V SLFF BSQ		
Housing	JST PAP-06V-S						NICHIFU TIC 8-BLK		
Terminal	JST 6PHD-002T-P0.5						NICHIFU R8-6		

High-Payload Motor for 100kg-Class Drones

Specifications

STC-BMI 8388 DC100V KV29

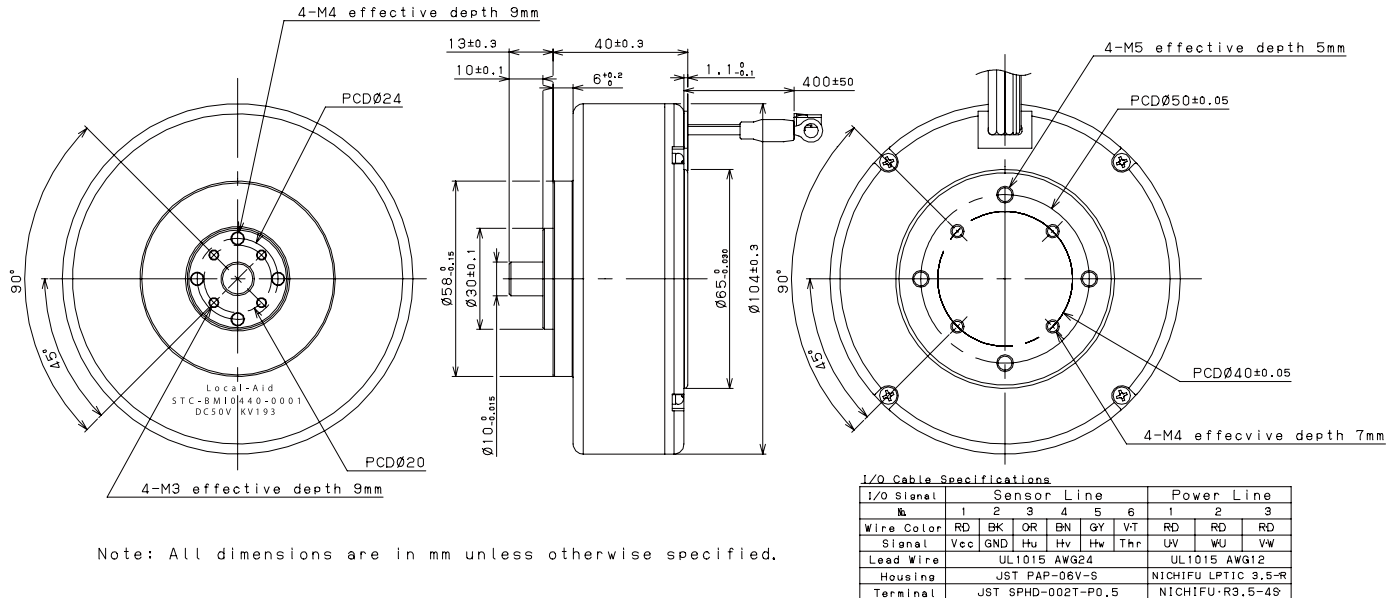
Dimensions	Φ 183mm x 88mm
Weight (Incl. Cable)	6800g
Motor Type	Inrunner
IP Rating	IP55
Max. Operating Temperature	220°C (High Temperature resistance Class R)
Shaft Diameter	Φ 15mm
Propeller Mount Pattern	PCD Φ 40mm M5 x 6position
Rated Voltage	100VDC
Phase Resistance	24m Ω
No-load current (at Throttle 10%)	0.5ADC
Max. Continuous Current	200A (180sec.)
Maximum Thrust	665N
Bearing	Upper side : TS3-6008ZZC3/4M (NTN)
	Lower side : TS3-6011LLUA1C3/4M (NTN)
Hall Sensor	SS360ST (Honeywell) for Detecting Rotational Position



PerformanceData (Note: Data measured at 10-second intervals per throttle setting)

Motor model	Propeller	Throttle (%)	Voltage (V)	Thrust (N)	Current (A)	Speed (rpm)	Input power (w)	Motor Efficiency (%)	Casing surface Temperature rise (Δ T)
STC-BMI 8388 DC100V KV29	62 x 24inch CCW	60	100	70	4.92	619	493	80	10
		65	99	136	11.46	854	1133	80	10
		70	97	208	22.17	1072	2145	83	10
		75	96	293	35.92	1264	3434	85	10
		80	94	375	52.52	1422	4930	84	10
		85	91	461	73.86	1566	6737	84	10
		90	89	528	93.29	1676	8335	83	10
		95	87	599	115.95	1770	10067	83	10
		100	85	665	139.50	1860	11864	82	10





Medium-Payload Motor for 25kg-Class Drones

Specifications

STC-BMI 0440 DC50V KV193

Dimensions	Φ 104mm x 40mm
Weight (Incl. Cable)	840g
Motor Type	Inrunner
IP Rating	IP55
Max. Operating Temperature	220°C (High Temperature resistance Class R)
Shaft Diameter	Φ 12mm
Propeller Mount Pattern	PCD Φ 20mm M3 x 4position or Φ 24mm M4 x 4position
Rated Voltage	50VDC
Phase Resistance	517m Ω
No-load current (at Throttle 10%)	0.5ADC
Max. Continuous Current	200A (180sec.)
Maximum Thrust	54N
Bearing	Upper side : 6808 2RS (HCH)
	Lower side : 6804 ZZ (HCH)
Hall Sensor	SS360ST (Honeywell) for Detecting Rotational Position



PerformanceData (Note: Data measured at 10-second intervals per throttle setting)

Motor model	Propeller	Throttle (%)	Voltage (V)	Thrust (N)	Current (A)	Speed (rpm)	Input power (w)	Motor Efficiency (%)	Case Surface Temperature Rise(Δ T)
STC-BMI 0440 DC50V KV193	28 x 9inch CCW	60	45	3	4.03	704	181	40	10
		65	45	13	16.98	1488	764	88	10
		70	45	26	55.48	2094	2497	74	10
		75	45	41	115.26	2609	5187	70	10
		80	45	54	183.79	2998	8271	67	10

