

Parameter	Unit	HJ116	HJ116	HJ116	HJ116	HJ116	HJ116	HJ116	HJ116	HJ116	HJ116	HJ116	HJ116
		C6-44	C6-64	C6-88	C6-130	E6-44	E6-64	E6-88	E6-130	J6-88	J6-130	J6-180	J6-260
Voltage gradient no load	volts/krpm	44	64	88	130	44	64	88	130	88	130	180	260
Max.Motor EMF	line-line volts	260	380	530	700	260	380	530	700	530	700	700	700
Max. Speed	RPM	6000	6000	6000	5400	6000	6000	6000	5400	6000	5400	3900	2700
Continuous stall torque TENV	Nm	5	5	5	5	7.2	7.2	7.2	7.2	11.8	11.8	11.8	11.8
	lb-in	44	44	44	44	64	64	64	64	104	104	104	104
Peak Stall Torque	Nm	16	16	16	16	25	25	25	25	41	41	41	41
	lb-in	150	150	150	150	220	220	220	220	360	360	360	360
Continuous stall current rms	Amps	9.7	6.7	4.9	3.3	14	9.6	7	4.7	11.5	7.8	5.6	3.9
Rotor Polar Moment of Inertia	Kg.cm ²	7.5	7.5	7.5	7.5	9.9	9.9	9.9	9.9	15	15	15	15
(Inclusive of resolver inertia)	lb-in Sec ²	0.0066	0.0066	0.0066	0.0066	0.0088	0.0088	0.0088	0.0088	0.0133	0.0133	0.0133	0.0133
Cogging Torque	Nm	0.145	0.145	0.145	0.145	0.213	0.213	0.213	0.213	0.36	0.36	0.36	0.36
	lb-in	1.28	1.28	1.28	1.28	1.9	1.9	1.9	1.9	3.2	3.2	3.2	3.2
Torque constant Kt (line-line)	Nm/Amp	0.51	0.75	1.03	1.5	0.51	0.75	1.03	1.5	1.03	1.5	2.1	3
	lb-in/Amp	4.6	6.6	9.1	13.5	4.6	6.6	9.1	13.5	9.1	13.5	19	27
Resistance (line-line)	Ohms	0.8	1.8	3.4	7.6	0.41	0.95	1.7	4.1	0.85	1.7	3.6	7.9
Inductance (line-line)	Millihenrys	3	6.8	12.1	27	1.9	4.3	7.7	17	4.8	9.5	19	41
Insulation Class		F	F	F	F	F	F	F	F	F	F	F	F
Max. ambient temperature	°C	40	40	40	40	40	40	40	40	40	40	40	40
	°F	104	104	104	104	104	104	104	104	104	104	104	104
Thermal time constant	Minutes	60	60	60	60	60	60	60	60	60	60	60	60
Thermal resistance	°C/Watt	0.69	0.69	0.69	0.69	0.62	0.62	0.62	0.62	0.48	0.48	0.48	0.48
	°F/Watt	1.24	1.24	1.24	1.24	1.11	1.11	1.11	1.11	0.86	0.86	0.86	0.86
Static friction torque	Nm	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
	lb-in	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792	0.792
Motor weight	Kg	6.9	6.9	6.9	6.9	8.6	8.6	8.6	8.6	12	12	12	12
	lb	15	15	15	15	19	19	19	19	26	26	26	26