

Parameter	Unit	HR142 C6-130	HR142 C6-88	HR142 C6-64	HR142 C6-44	HR142 E6-180	HR142 E6-130	HR142 E6-88	HR142 E6-64	HR142 G6- 180	HR142 G6-130	HR142 G6-88	HR142 G6-64	HR142 J6-260	HR142 J6-180	HR142 J6-130
Voltage gradient no load	volts/krpm	130	88	64	44	180	130	88	64	180	130	88	64	260	180	130
Max.Motor EMF	line-line volts	700	530	380	260	700	700	530	380	700	700	530	380	700	700	700
Max. Speed	RPM	5400	6000	6000	6000	3900	5400	6000	6000	3900	5400	6000	6000	2700	3900	5400
Continuous stall torque TENV	Nm	11.3	11.3	11.3	11.3	16	16	16	16	21	21	21	21	25	25	25
	lb-in	100	100	100	100	140	140	140	140	186	186	186	186	220	220	220
Peak Stall Torque	Nm	30	30	30	30	45	45	45	45	60	60	60	60	76	76	76
	lb-in	270	270	270	270	400	400	400	400	530	530	530	530	670	670	670
Continuous stall current rms	Amps	7.4	11	15	11.5	7.6	10.5	16	21	10	13.8	20	28	8.2	11.9	16
Rotor Polar Moment of Inertia (Inclusive of resolver inertia)	Kg.cm ²	11.5	11.5	11.5	11.5	17	17	17	17	22	22	22	22	27	27	27
Cogging Torque	lb-in Sec ²	0.0102	0.0102	0.0102	0.0102	0.18	0.18	0.18	0.18	0.228	0.228	0.228	0.228	0.288	0.288	0.288
	Nm	0.24	0.24	0.24	0.24	0.34	0.34	0.34	0.34	0.43	0.43	0.43	0.43	0.52	0.52	0.52
Torque constant Kt (line-line)	lb-in	2.124	2.124	2.124	2.124	3.0	3.0	3.0	3.0	3.805	3.805	3.805	3.805	4.576	4.576	4.576
	Nm/Amp	1.53	1.02	0.75	0.51	2.1	1.53	1.02	0.75	2.1	1.53	1.02	0.75	3.03	2.1	1.53
	lb-in/Amp	13.5	9.0	6.6	4.5	18.6	13.5	9.0	6.6	18.6	13.5	9.0	6.6	27	12.3	6.3
Resistance (line-line)	Ohms	1.7	0.76	0.43	0.2	1.9	0.9	0.42	0.2	1.24	0.6	0.29	0.15	1.8	0.88	0.43
Inductance (line-line)	Millihenrys	19	8.9	4.7	2.2	22	11.8	5.3	2.8	16	8.4	4.0	2.1	25	12.3	6.3
Insulation Class	F	F	F	F	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	40	40	40
	°F	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Thermal time constant	Minutes	50	50	50	50	55	55	55	55	60	60	60	60	65	65	65
Thermal resistance	°C/Watt	0.57	0.57	0.57	0.57	0.53	0.53	0.53	0.53	0.45	0.45	0.45	0.45	0.43	0.43	0.43
	°F/Watt	1.02	1.02	1.02	1.02	0.96	0.96	0.96	0.96	0.81	0.81	0.81	0.81	0.78	0.78	0.78
Static friction torque	Nm	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	lb-in	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Motor weight	Kg	14	14	14	14	18	18	18	18	21	21	21	21	25	25	25
	lb	31	31	31	31	40	40	40	40	46	46	46	46	55	55	55