

Parameter	Unit	MT52 K8-87	MT52 K8-62	MT52 K8-50	MT52 K8-37	MT52 V8-87	MT52 V8-69	MT52 V8-50	MT52 V8-37	MT52 ZF8-86	MT52 ZF8-67	MT52 ZF8-48	MT52 ZF8-38	MT52 ZR8-92	MT52 ZR8-66	MT52 ZR8-53	MT52 ZR8-39
Voltage gradient no load	volts/krpm	87	62	50	37	87	69	50	37	86	67	48	38	92	66	53	39
Max.terminal voltage	volts	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
Max. Speed	RPM	1500	2100	2600	3500	1500	2100	2600	3500	1500	2000	2700	3500	1400	2000	2500	3300
Continuous stall torque TENV	Nm	8.0	8.0	8.0	8.0	15	15	15	15	22	22	22	22	30	24	21	16
	lb-in	70	70	70	70	130	130	130	130	190	190	190	190	260	210	190	140
Peak Stall Torque	Nm	59	59	59	59	110	110	110	110	180	180	180	180	240	240	240	240
	lb-in	520	520	520	520					1600	1600	1600	1600	2100	2100	2100	2100
Continuous stall current rms	Amps	9.7	13.5	17	22.8	18.3	23.8	33.3	44	26	34	39	43	36	40	42	43
Rotor Polar Moment of Inertia	Kg.m ²	0.013	0.013	0.013	0.013	0.026	0.026	0.026	0.026	0.034	0.034	0.034	0.034	0.043	0.043	0.043	0.043
	lb-in Sec ²	0.115	0.115	0.115	0.115	0.23	0.23	0.23	0.23	0.3	0.3	0.3	0.3	0.38	0.38	0.38	0.38
Voltage constant Kv	volts sec rad-1	0.82	0.59	0.47	0.35	0.82	0.63	0.45	0.34	0.84	0.65	0.46	0.37	0.85	0.61	0.5	0.37
Torque constant Kt (line-line)	Nm/Amp	0.82	0.59	0.47	0.35	0.82	0.65	0.47	0.34	0.81	0.65	0.46	0.37	0.85	0.61	0.5	0.37
	lb-in/Amp	7.3	5.2	4.2	3.1	7.2	5.8	5.8	3.0	7.2	5.7	4.1	3.3	7.5	5.4	4.4	3.3
Armature resistance	Ohms	1.1	0.55	0.35	0.19	0.41	0.25	0.13	0.07	0.216	0.136	0.06	0.043	0.17	0.084	0.054	0.029
Armature inductance	Millihenrys	5.0	2.45	1.5	0.9	2.0	1.3	0.7	0.4	1.0	0.6	0.3	0.2	0.78	0.4	0.25	0.14
Mechanical time constant	Milliseconds	22	22	22	22	18	18	18	18	11	11	11	11	10	10	10	10
Thermal time constant	Minutes	40	40	40	40	60	60	60	60	75	75	75	75	90	90	90	90
Static friction torque	Nm	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Motor weight	Kg	23	23	23	23	31	31	31	31	39	39	39	39	48	48	48	48
	lb	51	51	51	51	68	68	68	68	86	86	86	86	106	106	106	106
Tachometer																	
Voltage gradient	volts/krpm	9.5	9.5	7	7	9.5	9.5	7	7	9.5	9.5	7	7	9.5	9.5	7	7
Ripple	%	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	cycles/rev	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Armature resistance	Ohms	36	36	24	24	36	36	24	24	36	36	24	24	36	36	24	24
Armature inductance	Millihenrys	55	55	36	36	55	55	36	36	55	55	36	36	55	55	36	36
Maximum current	Amps	0.025	0.025	0.035	0.035	0.025	0.025	0.035	0.035	0.025	0.025	0.035	0.035	0.025	0.025	0.035	0.035