

# Technical Note

## Crane and Hoist Motors

Synchronous Speed – 1800 RPM, 60Hz

15-minute and 30-minute Duty, 40° C ambient, up to 3300 feet elevation

Frame Size	Nominal Power Rating		Full Load Current		Locked Rotor Current		Full Load Torque		Torque % of F.L.		Power Factor P.F.	Efficiency % Eff	Motor Interia WK2 w/Brake lb-ft2	Tb Max Brake Torque lb-in	Maximum # Starts/Hr		Weight lbs		WB
	H.P.	kw	230V	460V	230V	460V	Starting	Break-down	No load, Z0	BGE					Motor	Motor w/Brake			
DT80K4	0.5	0.37	1700	2.3	1.15	10	5.0	18.5	300	280	0.65	64	0.0177	87	3700	8000	22	28	266
DT80K4	0.75	0.55	1690	3.3	1.65	13.6	6.8	27.5	290	275	0.66	65	0.0177	87	370	8000	22	28	220
DT80N4	1.0	0.75	1690	4.0	2	16.6	8.3	37.5	310	290	0.66	76	0.0227	87	2800	7500	25	31	220
DT90S4	1.5	1.1	1670	4.8	2.4	25	12.5	56.7	350	340	0.78	76	0.0685	174	2000	5000	35	56	220
DT90L4	2.0	1.5	1670	7.0	3.5	34.5	17.3	76	405	395	0.78	76	0.0900	174	1500	3800	39	60	220
DT100LS4	3.0	2.2	1670	9.0	4.5	50	25	113	350	330	0.83	76	0.111	354	800	2000	51	72	220
DV112M4	5.0	3.7	1670	14	7	88	44	189	380	330	0.84	80	0.261	478	1400	84	110	230	
DV132S4	7.5	5.5	1670	20	10	130	65	283	400	330	0.87	83	0.437	662	1200	105	138	230	
DV132M4	10	7.5	1670	25.5	12.8	160	80	378	280	280	0.87	84	0.717	885	1000	144	199	230	
DV132ML4	15	11	1680	37	18.5	234	117	563	290	290	0.88	86	0.887	885	900	165	220	230	
DV160M4	20	15	1680	49	24.5	316	158	752	290	280	0.88	86	1.050	1328	700	183	238	230	

Frame Size	Stator P/N (DT79)	Rotor P/N	
		Without Brake	With Brake
DT80K4	0863 864 0	135 458 2	135 734 8
DT80K4	0506 505 4	135 458 2	135 634 8
DT80N4	0514 930 4	135 121 4	135 263 6
DT90S4	0521 517 X	135 466 3	135 640 2
DT90L4	0526 800 1	135 352 7	135 405 1

Frame Size	Stator P/N (DT79)	Rotor P/N	
		Without Brake	With Brake
DT100LS4	0526 835 4	135 474 4	135 648 8
DV112M4	0508 895 X	135 377 2	182 837 1
DV132S4	0508 519 5	135 389 6	182 855 X
DV132M4	0515 475 8	136 514 2	182 879 7
DV132ML4	0527 266 1	135 517 7	182 903 3
DV160M4	0525 204 0	136 519 3	182 906 8