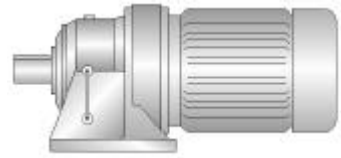


# Standard Motor Characteristics

☐ TEFC AC Induction Motors

☐ 3-Phase 60 Hz or 50 Hz, 230/460V, 220/380V, 208/415V, 220/440V, 575V

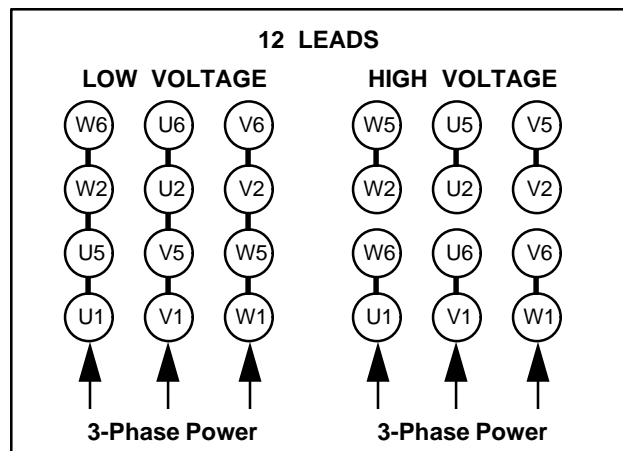
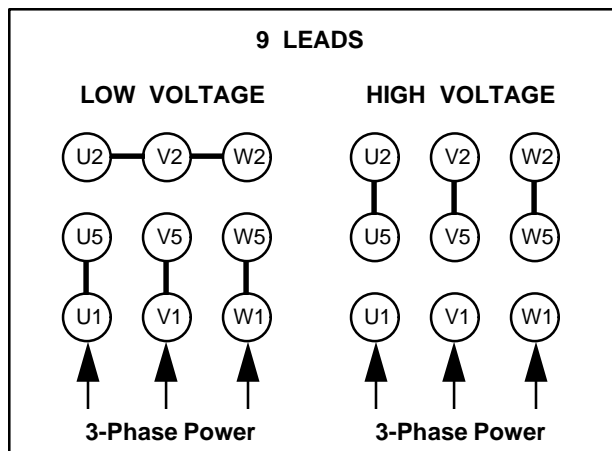


## 230/460 VAC, 60 Hz, Continuous Duty, TEFC

Output		Full Load rpm	Motor Frame	Full Load Characteristic				Starting Torque		Max. Torque %	Inertia		
hp	kW			Torque		Effic. %	Power Factor	Amp	% of F.L.		Amp	kg-m <sup>2</sup>	lb-in <sup>2</sup>
1/4	0.185	1650	63	0.110	9.5	66.0	70.0	1.0	280	6	250	0.003	10.3
		1120	71	0.162	14.1	64.0	60.0	1.3	200	6	250	0.006	20.5
1/2	0.37	1680	71	0.216	18.7	70.0	75.0	1.9	200	12	250	0.005	17.1
		1130	80	0.321	27.9	68.0	67.0	2.2	200	12	230	0.009	30.8
1	0.75	1700	80	0.427	37.1	76.0	76.5	3.4	230	19	280	0.009	30.8
		1140	90 L	0.637	55.3	76.0	71.0	3.6	200	19	230	0.018	61.5
2	1.5	1710	90 L	0.849	73.7	79.0	81.0	6.1	220	40	280	0.018	61.5
		1140	100 L	1.273	110	78.0	74.0	6.8	180	40	220	0.033	113
3	2.2	1725	100 L	1.262	110	82.0	82.5	8.7	210	68	260	0.033	113
		1150	112 M	1.894	164	82.0	77.0	9.3	180	68	230	0.060	205
5	3.7	1745	112 M	2.080	181	85.0	85.0	13.5	220	110	260	0.060	205
		1160	132 S	3.129	272	84.0	77.0	15.1	180	110	230	0.154	526
7 1/2	5.5	1750	132 S	3.111	270	87.0	84.0	20.1	220	160	250	0.106	362
		1160	132 M	4.693	407	85.0	77.5	22.3	200	160	230	0.222	759
10	7.5	1750	132 M	4.148	360	88.5	88.0	25.1	220	200	250	0.146	499
		1170	160 M	6.204	538	87.0	80.0	28.1	210	200	230	0.408	1394
15	11	1760	160 M	6.186	537	90.0	89.0	36.7	220	290	250	0.322	1100
		1170	160 L	9.306	808	89.5	84.0	39.1	210	290	230	0.599	2047
20	15	1760	160 L	8.248	716	90.5	86.0	50.3	220	360	240	0.412	1408
		1170	180 MC	12.41	1077	90.0	85.0	51.2	200	360	210	1.007	3441
25	18.5	1765	180 MC	10.28	892	91.0	85.5	62.9	210	440	240	0.624	2132
		1170	180 LC	15.51	1346	90.0	84.5	64.4	200	440	210	1.170	3998
30	22	1765	180 MC	12.34	1071	91.5	88.0	72.9	210	550	240	0.671	2293
		1170	180 LC	18.61	1615	91.0	84.0	76.8	200	550	210	1.365	4664
40	30	1760	180 LC	16.50	1432	92.0	88.0	96.7	210	620	230	0.829	2833
		1170	180 LC	24.82	2154	92.0	85.0	100.1	190	620	200	1.952	6670
50	37	1760	200 LC	20.60	1788	92.0	86.0	124.0	200	800	210	1.293	4418
		1170	200 LC	31.02	2692	92.5	84.0	126.0	190	800	200	2.292	7832
60	45	1760	200 LC	24.75	2148	92.0	89.0	143.5	190	910	200	1.681	5744
		1170	225 SC	37.22	3231	92.5	86.0	147.7	170	910	200	3.201	10938
75	55	1765	225 SC	30.84	2677	92.5	86.5	183.5	180	1220	200	1.947	6653

Specifications subject to change without prior notice

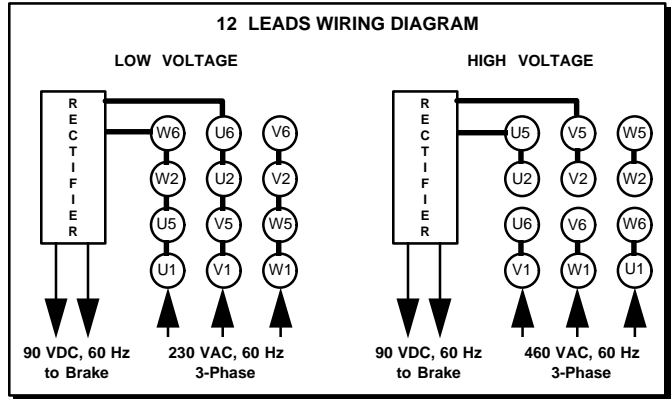
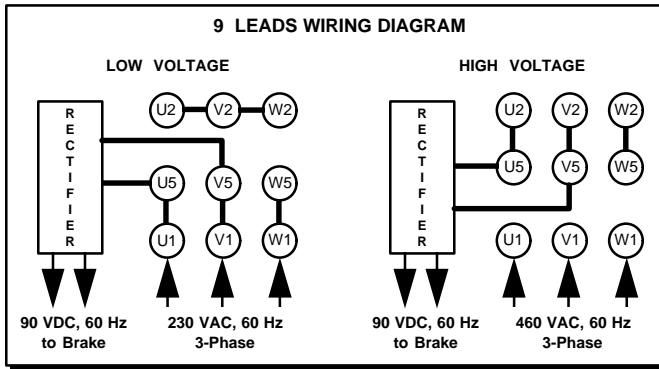
## 👉 Standard Motor Wiring Diagram



# Miscellaneous Information

## Brakemotor Wiring Diagram

DARALI®DRIVES Brakemotor comes with either a 9-lead or 12-lead junction box. Please refer to the diagram below for wiring connections of motor as well as power supply to the 90VDC rectifier. DARALI®DRIVES Brakemotors are pre-wired for 460 VAC at the factory. If your power supply is 460 VAC, no wiring changes are needed. Simply connect your power supply to the leads shown below. If your power supply is 230 VAC, first determine whether the motor is 9-lead or 12-lead, then connect the motor wiring and rectifier wiring according to the diagram.



## POSSIBLE DOUBLE STAGE REDUCTION RATIOS

Ratio Combination	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87
6						102	126	150	174	210	258	306	354	426	522
8				104	120	136	168	200	232	280	344	408	472	568	696
11			121	143	165	187	231	275	319	385	473	561	649	781	957
13		104	143	169	195	221	273	325	377	455	559	663	767	923	1131
15		120	165	195	225	255	315	375	435	525	645	765	885	1065	1305
17	102	136	187	221	255	289	357	425	493	595	731	867	1003	1207	1479
21	126	168	231	273	315	357	441	525	609	735	903	1071	1239	1491	1827
25	150	200	275	325	375	425	525	625	725	875	1075	1275	1475	1775	2175
29	174	232	319	377	435	493	609	725	841	1015	1247	1479	1711	2059	2523
35	210	280	385	455	525	595	735	875	1015	1225	1505	1785	2065	2485	3045
43	258	344	473	559	645	731	903	1075	1247	1505	1849	2193	2537	3053	3741
51	306	408	561	663	765	867	1071	1275	1479	1785	2193	2601	3009	3621	4437
59	354	472	649	767	885	1003	1239	1475	1711	2065	2537	3009	3481	4189	5133
71	426	568	781	923	1065	1207	1491	1775	2059	2485	3053	3621	4189	5041	6177
87	522	696	957	1131	1305	1479	1827	2175	2523	3045	3741	4437	5133	6177	7569

Combination of any two single stage reduction ratios can be made into double stage reduction ratio

## OUTPUT TORQUE OF INTEGRAL GEARMOTORS @ 1750 RPM INPUT

(4-Poles, 60 Hz)

unit = inch-lb

Ratio \ HP	6	8	11	13	15	17	21	25	29	35	43	51	59	71	87
HP	292	219	159	135	117	103	83.3	70.0	60.3	50.0	40.7	34.3	29.7	24.6	20.1
1/8	25	33	46	54	63	71	88	104	121	146	179	213	246	296	363
1/4	50	67	92	108	125	142	175	208	242	292	359	425	492	592	725
1/2	100	133	183	217	250	283	350	417	484	584	717	850	984	1184	1451
1	200	267	367	434	500	567	700	834	967	1167	1434	1701	1968	2368	2901
2	400	534	734	867	1000	1134	1401	1667	1934	2334	2868	3402	3935	4736	5803
3	600	800	1101	1301	1501	1701	2101	2501	2901	3502	4302	5102	5903	7103	8704
5	1000	1334	1834	2168	2501	2835	3502	4169	4836	5836	7170	8504	9838	11839	14507
7 1/2	1501	2001	2751	3252	3752	4252	5253	6253	7253	8754	10755	12756	14757	17758	21760
10	2001	2668	3668	4335	5002	5669	7003	8337	9671	11672	14340	17008	19676	23678	29014
15	3001	4002	5503	6503	7504	8504	10505	12506	14507	17508	21510	25512	29514	35517	43521
20	4002	5336	7337	8671	10005	11339	14007	16675	19343	23344	28680	34016	39352	47356	58028
25	5002	6670	9171	10838	12506	14173	17508	20843	24178	29181	35850	42520	49190	59195	72535
30	6003	8004	11005	13006	15007	17008	21010	25012	29014	35017	43021	51024	59028	71034	87041
40	8004	10672	14674	17342	20010	22677	28013	33349	38685	46689	57361	68032	78704	94712	116055
50	10005	13340	18342	21677	25012	28347	35017	41687	48356	58361	71701	85041	98380	118390	145069

*Italicized values below reduction ratios are output rpm's*