

IP

Protection against solid objects

Protection against liquids

0	No protection	
1	Protected against solid objects up to 50mm eg. accidental touch by hands	
2	Protected against solid objects up to 12mm eg. fingers	
3	Protected against solid objects over 2.5mm (tools + wires)	
4	Protected against solid objects up to 1mm (tools wires + small wires)	
5	Protected against dust (no harmful deposit)	
6	Totally protected against dust	

0	No protection	
1	Protected against vertically falling drops of water eg. condensation	
2	Protected against direct sprays of water up to 15° from vertical	
3	Protected against direct sprays of water up to 60° from vertical	
4	Protected against low pressure jets of water from all directions	
5	Protected against low pressure jets of water from all directions	
6	Protected against strong jets of water eg. for use on ship decks	
7	Protected against the effects of immersion between 15cm and 1m.	
8	Protected against long periods of immersion under pressure	

Motor Ratings and Rated Current

The currents shown in the table below are those given for standard three phase squirrel cage motors, 1500 r.p.m. 50Hz
Values quoted are for guidance only. They can vary depending on the number of poles and design.

Motor Ratings KW 690V	HP	Motor Rated Current at							
		220-230V	240V	380V	415V	440V	500V	600V	690V
				380-400V					
0.06	1/12	0.38	0.35	0.22	0.20	0.19	0.18	0.12	-
0.09	1/8	0.55	0.50	0.33	0.30	0.28	0.24	0.21	-
0.12	1/6	0.76	0.68	0.42	0.40	0.37	0.33	0.27	-
0.18	1/4	1.1	1	0.64	0.60	0.55	0.46	0.40	-
0.25	1/3	1.4	1.38	0.88	0.85	0.76	0.59	0.56	-
0.37	1/2	2.1	1.93	1.22	1.15	1.06	0.85	0.77	0.7
0.55	3/4	2.7	2.3	1.5	1.40	1.25	1.20	1.02	0.9
0.75	1	3.3	3.1	2	2	1.67	1.48	1.22	1.1
1.1	1.5	4.9	4.1	2.6	2.5	2.26	2.1	1.66	1.5
1.5	2	6.2	5.6	3.5	3.5	3.03	2.6	2.22	2
2.2	3	8.7	7.9	5	5	4.31	3.8	3.16	2.9
2.5	3.4	9.8	8.9	5.7	5.5	4.9	4.3	3.59	3.3
3	4	11.6	10.6	6.6	6.5	5.8	5.1	4.25	3.5
3.7	5	14.2	13	8.2	7.5	7.1	6.2	5.2	4.4
4	5.5	15.3	14	8.5	8.4	7.6	6.5	5.6	4.9
5	6.8	18.9	17.2	10.5	10	9.4	8.1	6.9	6
5.5	7.5	20.6	18.9	11.5	11	10.3	8.9	7.5	6.7
6.5	8.8	23.7	21.8	13.8	12.5	12	10.4	8.7	8.1
7.5	10	27.4	24.8	15.5	14	13.5	11.9	9.9	9
8	11	28.8	26.4	16.7	15.4	14.4	12.7	10.6	9.7
9	12.5	32	29.3	18.3	17	15.8	13.9	11.6	10.6
11	15	39.2	35.3	22	21	19.3	16.7	14.1	13
12.5	17	43.8	40.2	25	23	21.9	19	16.1	15
15	20	52.6	48.2	30	28	26.3	22.5	19.3	17.5
18.5	25	64.9	58.7	37	35	32	28.5	23.5	21
20	27	69.3	63.4	40	37	34.6	30.6	25.4	23
22	30	75.2	68	44	40	37.1	33	27.2	25
25	34	84.4	77.2	50	47	42.1	38	30.9	28
30	40	101	92.7	60	55	50.1	44	37.1	33
37	50	124	114	72	66	61.9	54	45.4	42
40	54	134	123	79	72	67	60	49.1	44
45	60	150	136	85	80	73.9	64.5	54.2	49
51	70	168	154	97	90	83.8	73.7	61.4	56
55	75	181	166	105	96	90.3	79	66.2	60
59	80	194	178	112	105	96.9	85.3	71.1	66
75	100	245	226	140	135	123	106	90.3	82
80	110	260	241	147	138	131	112	96.3	86
90	125	292	268	170	165	146	128	107	98
100	136	325	297	188	182	162	143	119	107
110	150	358	327	205	200	178	156	131	118
129	175	420	384	242	230	209	184	153	135
132	180	425	393	245	242	214	186	157	140
140	190	449	416	260	250	227	200	167	145
147	200	472	432	273	260	236	207	173	152
160	220	502	471	295	280	256	220	188	170
180	245	578	530	333	320	289	254	212	192
184	250	590	541	340	325	295	259	217	200
200	270	626	589	370	340	321	278	235	215
220	300	700	647	408	365	353	310	260	236
250	340	803	736	460	425	401	353	295	268
257	350	826	756	475	450	412	363	302	280
295	400	948	868	546	500	473	416	348	320
315	430	990	927	580	535	505	445	370	337
355	480	1080	1010	638	580	549	483	405	366
400	545	1250	1130	710	650	611	538	450	410
450	610	1410	1270	800	740	686	608	508	460
475	645	1480	1340	850	780	730	645	540	485
500	680	1570	1420	890	830	770	680	565	510
580	780	1750	1580	1000	920	860	760	630	570
600	810	-	-	1080	990	920	810	680	610
670	910	-	-	1200	1100	1030	910	760	680