



d-c mill motors • series 600

A. I. S. E. standardized ratings • type MC

application data

3560

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5-275 hp • 75°C one hour • 230, 550 volts
totally enclosed • protected self-ventilated

frame no.	½ hr 75°C				1 hr 75°C				5 hrs cont 75°C				max safe rpm	arm wr ²	stored energy in hp—seconds at ½ hr full load rpm
	hp	full load rpm			hp	full load rpm			hp	full load rpm					
		series	com-pound	shunt		series	com-pound	shunt		series	com-pound	shunt			

230 volts • totally enclosed

2 ^A	6½	750	925	980	5	900	1025	1025	3½	1080	1200	1100	3750	1.4	.24
602	10	650	775	875	7½	800	900	900	4½	1085	1050	965	3600	4.32	.567
603	13½	610	700	775	10	725	800	800	6	950	925	840	3600	5.13	.593
604	19	560	650	700	15	650	725	725	7½	1025	885	770	3000	10.00	.972
606	33	500	625	635	25	575	650	650	13	800	785	685	2600	26.8	2.08
608	45	460	525	560	35	525	575	575	18	740	675	600	2300	46.6	3.52
610	65	440	500	535	50	500	550	550	22½	720	640	565	2100	82.8	5.02
612	100	420	475	500	75	475	515	515	37	700	600	525	1900	133.0	7.31
614	135	410	440	470	100	460	485	485	46	685	550	505	1800	183.0	9.57
616	200	400	430	450	150	450	460	460	66	675	520	480	1600	380.0	18.85
618	265	350	375	410	200	410	420	420	85	650	500	430	1500	686.0	26.1
620	360	340	360	360	275	370	390	390	125	550	425	400	1500	1300.0	46.5

550 volts • totally enclosed

2 ^A	6½	840	1040	1100	5	1015	1150	1150	3½	1270	1300	1200	3750	1.4	.31
602	10	765	925	1000	7½	935	1025	1025	4½	1185	1210	1050	3600	4.32	.783
603	13½	700	810	865	10	810	885	885	6	1115	1025	920	3600	5.13	.776
604	19	625	750	775	15	725	800	800	7½	1060	1000	850	3000	10.00	1.22
606	33	570	675	685	25	635	700	700	13	925	850	725	2600	26.8	2.70
608	45	515	600	610	35	585	625	625	18	850	725	650	2300	46.6	4.42
610	65	470	560	575	50	530	585	585	22½	750	700	600	2100	82.8	5.77
612	100	450	500	540	75	510	550	550	37	740	635	570	1900	133.0	8.40
614	135	425	460	480	100	475	500	500	46	710	575	525	1800	183.0	10.32
616	200	410	435	450	150	460	460	460	66	675	540	480	1600	380.6	19.85
618	265	380	....	....	200	415	415	415	85	650	500	430	1500	686.0	30.80

230 volts • protected, self-ventilated

frame no.	hp	series	com-pound	shunt	hp	series	com-pound	shunt	cont 75°C rise			max safe rpm	arm wr ²	†	
									7½	10	15				
602	9¼	700	800	885	7½	800	900	900	3600	4.8	.63
603	12½	645	725	785	10	725	800	800	3600	6.0	.694
604	19	560	650	710	15	650	725	725	3000	10.4	1.01
606	31½	525	635	650	25	575	650	650	2600	29.0	2.25
608	44	475	540	575	35	525	575	575	2300	50.3	3.80
610	62½	460	510	550	50	500	550	550	2100	89.0	5.39
612	94	435	485	515	75	475	515	515	1900	150.0	8.25
614	125	425	450	485	100	460	485	485	1800	202.0	10.56
616	187½	410	440	460	150	450	460	460	1600	412.0	20.43
618	250	380	400	420	200	410	420	420	1500	721.0	27.40
620	350	350	370	390	275	370	390	390	1500	1300.0	46.5

550 volts • protected, self-ventilated

frame no.	hp	series	com-pound	shunt	hp	series	com-pound	shunt	cont 75°C rise			max safe rpm	arm wr ²	†	
									7½	10	15				
602	9¼	825	925	1015	7½	935	1025	1025	3600	4.8	.87
603	12½	725	800	875	10	810	885	885	3600	6.0	.91
604	19	635	750	785	15	725	800	800	3000	10.4	1.27
606	31½	575	675	685	25	635	700	700	2600	29.0	2.92
608	44	525	585	610	35	585	625	625	2300	50.3	4.77
610	62½	475	560	575	50	530	585	585	2100	89.0	6.20
612	94	465	575	540	75	510	550	550	1900	150.0	9.46
614	125	440	475	490	100	475	550	500	1800	202.0	11.40
616	187½	425	440	450	150	460	460	460	1600	412.0	21.50
618	250	380	400	415	200	415	415	415	1500	721.0	32.40

For enclosed forced ventilated mill motors the continuous 75°C rise ratings are equal to the 1 hour 75°C rise totally enclosed ratings when the required volume of ventilating air is supplied to the motors.

† A.I.S.E. Frame 2 is carried over from previous A.I.S.E. mill motor standards.

† These values are based on the ½ hour totally enclosed speeds.

October, 1960

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