

600V AC and 690V AC

Cat. No.	Light Duty kW Output	Normal Duty kW Output	Heavy Duty kW Output	Cat. No.	Light Duty Hp Output	Normal Duty Hp Output	Heavy Duty Hp Output	Enclosure Code/Frame Size						
								B, J, L, T	F		G, N		K, P, W, Y	R
									690V	600V	690V	600V		
690 Volt				600 Volt										
				20x...E1P7	–	1	0.5	–	–	3	–	3	–	–
				20x...E2P7	–	2	1							
				20x...E3P9	–	3	2							
				20x...E6P1	–	5	3							
				20x...E9P0	–	7.5	5							
				20x...E011	–	10	7.5							
20x...F012	–	7.5	5.5	20x...E012	–	10	7.5			–	6	6		
				20x...E017	–	15	10			3	–	3		
20x...F015	–	11	7.5	20x...E018	–	15	10			–	6	6		
				20x...E022	–	20	15			3	–	3		
20x...F020	–	15	11	20x...E023	–	20	15			–	6	6		
20x...F023	–	18.5	15	20x...E024	–	20	20			–	6	6		
				20x...E027	–	25	20			4	–	4		
20x...F030	–	22	18.5	20x...E028	–	25	20			–	6	6		
				20x...E032	–	30	25			4	–	4		
20x...F034	–	30	22	20x...E033	–	30	25			–	6	6		
				20x...E041	–	40	30			5	–	5		
20x...F046	–	37	30	20x...E042	–	40	30			–	6	6		
				20x...E052	–	50	40			5	–	5		
20x...F050	–	45	37	20x...E053	–	50	40			–	6	6		
20x...F061	–	55	45	20x...E063	–	60	50							
20x...F082	–	75	55	20x...E077	–	75	60							
20x...F098	–	90	75	20x...E099	–	100	75							
20x...F119	–	110	90	20x...E125	–	125	100							
20x...F142	–	132	110	20x...E144	–	150	125							
20x...F171	–	160	132	20x...E192	–	200	150			7	7			
20x...F212	–	200	160	20x...E242	–	250	200							
20x...F263	–	250	200	20x...E289	–	300	250							
2xG...F265	315	250	200	20x...E295	350	300	250	8		–	–	8		
2xG...F330	355	315	250	20x...E355	400	350	300							
2xG...F370	400	355	300	20x...E395	450	400	350							
2xG...F415	450	400	355	20x...E435	500	450	350							
2xG...F460	500	450	375	20x...E460	500	500	400							
2xG...F500	530	500	400	20x...E510	550	500	450							
2xG...F590	630	560	450	20x...E595	700	600	500	9					9	
2xG...F650	710	630	500	20x...E630	800	700	600							
2xG...F710	800	710	560	20x...E760	900	800	700							
2xG...F765	850	750	630	20x...E825	950	900	750							
2xG...F795	900	800	710	20x...E900	1000	950	800							
2xG...F960	1000	900	800	20x...E980	1100	1000	900							
2xG...F1K0	1100	1000	900	20x...E1K1	1200	1100	1000	10					10	
2xG...F1K4	1500	1400	1120	20x...E1K4	1500	1400	1250							

600V AC Input

Drive Cat. No.	Frame	Duty Cycle	Hp	Short Circuit Current Rating (kA)			
				Circuit Breaker Only (P3) ⁽¹⁾	Circuit Breaker with Input Contactor (P3 with P11) ⁽¹⁾	Molded Case Switch Only (P5) ⁽²⁾	Molded Case Switch with Input Contactor (P5 with P11) ⁽²⁾
21G...E295	8	LD	350	50	<ul style="list-style-type: none"> • 18 with 601...700 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
		ND	300	50	<ul style="list-style-type: none"> • 18 with 600 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
		HD	250	50	<ul style="list-style-type: none"> • 18 with 600 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
21G...E355	8	LD	400	50	<ul style="list-style-type: none"> • 18 with 601...800 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
		ND	350	50	<ul style="list-style-type: none"> • 18 with 601...700 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
		HD	300	50	<ul style="list-style-type: none"> • 18 with 600 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
21G...E395	8	LD	450	50	<ul style="list-style-type: none"> • 30 with 601...900 A Class L fuse • 30 with 1000 A CB 	<ul style="list-style-type: none"> • 100 with 800 A max Class L fuse 	• 30 with 800 A Class L fuse
		ND	400	50	<ul style="list-style-type: none"> • 18 with 601...800 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
		HD	350	50	<ul style="list-style-type: none"> • 18 with 601...700 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
21G...E435	8	LD	500	50	<ul style="list-style-type: none"> • 30 with 601...1000 A Class L fuse • 30 with 1000 A CB 	<ul style="list-style-type: none"> • 100 with 800 A max Class L fuse 	• 30 with 800 A Class L fuse
		ND	450	50	<ul style="list-style-type: none"> • 30 with 601...900 A Class L fuse • 30 with 1000 A CB 	<ul style="list-style-type: none"> • 100 with 800 A max Class L fuse 	• 30 with 800 A Class L fuse
		HD	350	50	<ul style="list-style-type: none"> • 18 with 601...700 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
21G...E460	8	LD	500	35	<ul style="list-style-type: none"> • 30 with 601...1000 A Class L fuse • 30 with 1000 A CB 	<ul style="list-style-type: none"> • 100 with 800 A max Class L fuse 	• 30 with 800 A Class L fuse
		ND	500	50	<ul style="list-style-type: none"> • 30 with 601...1000 A Class L fuse • 30 with 1000 A CB 	<ul style="list-style-type: none"> • 100 with 800 A max Class L fuse 	• 30 with 800 A Class L fuse
		HD	400	50	<ul style="list-style-type: none"> • 18 with 601...800 A Class L fuse • 18 with 500 A CB • 100 with 600 A Class J fuse 	25	• 25 with 600 A Class J fuse
21G...E510	8	LD	550	35	<ul style="list-style-type: none"> • 30 with 601...1100 A Class L fuse • 30 with 1100 A CB 	<ul style="list-style-type: none"> • 100 with 800 A max Class L fuse 	• 30 with 800 A Class L fuse
		ND	500	35	<ul style="list-style-type: none"> • 30 with 601...1000 A Class L fuse • 30 with 1000 A CB 	<ul style="list-style-type: none"> • 100 with 800 A max Class L fuse 	• 30 with 800 A Class L fuse
		HD	450	50	<ul style="list-style-type: none"> • 30 with 601...900 A Class L fuse • 30 with 1000 A CB 	<ul style="list-style-type: none"> • 100 with 800 A max Class L fuse 	• 30 with 800 A Class L fuse
21G...E595	9	LD	700	50			
		ND	600	50			
		HD	500	50			

600 Volt AC and 810V DC Input Protection Devices – Floor Mount Frames 8...10

Applied Rating ⁽¹⁾	Frame	Cont. Output Amps	Duty	Cat. No.	Output Overload Amps		Continuous AC Input	AC Input Integral Semiconductor Fuse Size (170M) ⁽²⁾	DC Bay to Bay Integral Semiconductor or Fuse Size (170M6648)	AC Input Protection Devices Recommended for Branch Circuit Protection (Does not apply to 21G Drives with Options)						Circuit Breaker Max Size ⁽⁵⁾	Motor Circuit Protector ⁽⁶⁾	Input Quantities	DC Input Integral Semiconductor Fuse Size (170M6253) ⁽⁷⁾
					1 Min	3 s				Dual-element Time-delay Fuse		Non Time-delay Fuse		Amps	Amps				
600V AC Input																			
250 Hp	8	272	Heavy	20G...E295	408	490	257	900	–	350	175	600	350	175	800	800	350	1000	
300 Hp	8	295	Heavy	20G...E355	443	533	278	900	–	350	175	700	350	175	900	900	350	1000	
		295	Normal	20G...E295	325	490	278	900	–	400	200	700	400	200	1000	1000	400	1000	
350 Hp	8	355	Light	20G...E295	391	–	335	900	–	450	225	800	450	225	1100	1100	450	1000	
		355	Normal	20G...E355	391	533	335	900	–	450	225	800	450	225	1100	1100	450	1000	
		329	Heavy	20G...E395	494	593	310	900	–	400	200	700	400	200	1000	1000	400	1000	
		355	Heavy	20G...E435	533	639	335	900	–	450	225	800	450	225	1100	1100	450	1000	
400 Hp	8	395	Light	20G...E355	435	–	373	900	–	500	250	900	500	250	1200	1200	500	1000	
		395	Normal	20G...E395	435	593	373	900	–	500	250	900	500	250	1200	1200	500	1000	
		395	Heavy	20G...E460	593	711	373	900	–	500	250	900	500	250	1200	1200	500	1000	
450 Hp	8	435	Light	20G...E395	479	–	411	900	–	550	275	1000	550	275	1300	1300	550	1000	
		435	Normal	20G...E435	479	639	411	900	–	500	250	900	500	250	1200	1200	500	1000	
		425	Heavy	20G...E510	638	765	401	900	–	550	275	1000	550	275	1300	1300	550	1000	
500 Hp	8	460	Light	20G...E435	506	–	434	900	–	550	275	1000	550	275	1300	1300	550	1000	
		510	Light	20G...E460	561	–	481	900	–	650	325	1100	650	325	1500	1500	650	1000	
		460	Normal	20G...E460	506	711	434	900	–	550	275	1000	550	275	1300	1300	550	1000	
		510	Normal	20G...E510	561	765	481	900	–	650	325	1100	650	325	1500	1500	650	1000	
550 Hp	8	545	Light	20G...E510	600	–	514	900	–	650	325	1200	650	325	1600	1600	650	1000	
500 Hp	9	510	Heavy	20G...E595	765	918	481	900	1000	600	300	1100	600	300	1400	1400	600	1000	
600 Hp	9	595	Heavy	20G...E630	893	1071	562	900	1000	700	350	1300	700	350	1700	1700	700	1000	
		595	Normal	20G...E595	655	918	562	900	1000	700	350	1300	700	350	1700	1700	700	1000	
700 Hp	9	630	Heavy	20G...E760	945	1149	595	900	1000	750	375	1300	750	375	1800	1800	750	1000	
		630	Normal	20G...E630	693	1071	595	900	1000	750	375	1300	750	375	1800	1800	750	1000	
		595	Light	20G...E595	693	–	651	900	1000	800	400	1500	800	400	2000	2000	800	1000	
750 Hp	9	700	Heavy	20G...E825	1050	1260	661	900	1000	850	425	1500	850	425	2000	2000	850	1000	

Ambient Temperature/Load and Altitude/Load – 600V AC (Frames 8...10) (continued)

Cat. No. (see page 19)	600V AC Power Rating at 40 °C (104 °F) (Power Rating at 50 °C [122 °F])						Derating for IP20 NEMA/UL Type 1 (Frames 8...10), IP00 NEMA/UL Type 0 (Frames 8...10), and IP54 NEMA/UL Type 12 (Frames 8...10)			
	Light Duty		Normal Duty		Heavy Duty		Ambient Temperature/Load		Altitude/Load	
	Hp	Cont. Amps	Hp	Cont. Amps	Hp	Cont. Amps				
2xG...E510	550 (400)	545 (425)	500 (400)	510 (398)	450 (300)	425 (332)				
2xG...E595	700 (500)	690 (538)	600 (450)	595 (464)	500 (400)	510 (398)	See 2xG...E295		See 2xG...E295	
2xG...E630	800 (550)	760 (593)	700 (500)	630 (491)	600 (450)	595 (464)	See 2xG...E395		See 2xG...E355	
2xG...E760	900 (650)	835 (651)	800 (550)	760 (593)	700 (500)	630 (491)	See 2xG...E395		See 2xG...E395	
2xG...E825	950 (700)	900 (702)	900 (600)	825 (644)	750 (550)	700 (546)	See 2xG...E435		See 2xG...E435	
2xG...E900	1000 (750)	980 (764)	950 (700)	900 (702)	800 (600)	760 (593)	See 2xG...E460		See 2xG...E460	
2xG...E980	1100 (800)	1045 (815)	1000 (750)	980 (764)	900 (625)	815 (636)	See 2xG...E510		See 2xG...E510	
2xG...E1K1	1200 (950)	1220 (952)	1100 (850)	1110 (866)	1000 (700)	920 (718)	See 2xG...E395		See 2xG...E395	
2xG...E1K4	1500 (1100)	1530 (1193)	1400 (1000)	1430 (1115)	1250 (900)	1190 (928)	See 2xG...E510		See 2xG...E510	

Additional Watts Loss for Cabinet Options Bay

Drive Cat. No. ⁽¹⁾	Normal Duty		Cabinet Options Bay		Drive Cat. No. ⁽¹⁾	Normal Duty		Cabinet Options Bay	
	kW	Continuous Output Amps	Without Input or Output Line Reactor (Watts) ⁽²⁾	With Input or Output Line Reactor (Watts) ⁽²⁾		Hp	Continuous Output Amps	Without Input or Output Line Reactor (Watts) ⁽²⁾	With Input or Output Line Reactor (Watts) ⁽²⁾
400V					480V				
21G...C460	250	460	219	626	21G...D430	350	430	177	652
21G...C540	315	540	256	735	21G...D485	400	485	204	652
21G...C567	315	567	280	792	21G...D545	450	545	239	725
21G...C650	355	650	359	1123	21G...D617	500	617	295	983
21G...C750	400	750	404	1549	21G...D710	600	710	355	1410
21G...C770	400	770	441	1692	21G...D740	650	740	388	1542
21G...C910	500	910	327	2425	21G...D800	700	800	246	1867
21G...C1K0	560	1040	350	2651	21G...D960	800	960	364	2325
21G...C1K1	630	1090	384	2912	21G...D1K0	900	1045	353	2677
21G...C1K2	710	1175	446	3384	21G...D1K2	1000	1135	416	3158
21G...C1K4	800	1465	662	3520	21G...D1K3	1100	1365	574	3056
21G...C1K5	850	1480	675	3593	21G...D1K4	1250	1420	622	3307
690V					600V				
21G...F265	250	265	266	1090	21G...E295	300	295	233	838
21G...F330	315	330	304	1067	21G...E355	350	355	289	902
21G...F370	355	370	343	1288	21G...E395	400	395	328	759
21G...F415	400	415	379	1547	21G...E435	450	435	354	1208
21G...F460	450	460	240	1195	21G...E460	500	460	379	1327
21G...F500	500	500	251	1315	21G...E510	500	510	410	1450
21G...F590	560	590	134	2617	21G...E595	600	595	136	1659
21G...F650	630	650	162	3175	21G...E630	700	630	153	1860
21G...F710	710	710	194	2362	21G...E760	800	760	222	2706
21G...F765	750	765	225	2742	21G...E825	900	825	269	3196
21G...F795	800	795	243	2961	21G...E900	950	900	320	2372
21G...F960	900	960	364	2699	21G...E980	1000	980	310	2744

(1) Select the watts loss based on the catalog number.

(2) For MCC power bus options, add the following watts: 1250 A power bus = 188 watts; 2000 A power bus = 261 watts; 3200 A power bus = 421 watts.

Watts Loss for 600/690V Drives

Drive Cat. No. ⁽¹⁾⁽²⁾	Normal Duty		External Watts	Internal Watts	Total Watts	Drive Cat. No. ⁽¹⁾⁽²⁾	Normal Duty		External Watts	Internal Watts	Total Watts
	kW	Continuous Output Amps					Hp	Continuous Output Amps			
690 Volt						600 Volt					
						20x...E1P7	1.0	1.7	23	15	38
						20x...E2P7	2.0	2.7	40	17	57
						20x...E3P9	3.0	3.9	51	18	69
						20x...E6P1	5.0	6.1	80	22	103
						20x...E9P0	7.5	9	122	29	150
						20x...E011	10	11	152	34	186
20x...F012	7.5	12	169	50	219	20x...E012	10	12	168	50	217
						20x...E017	15	17	249	54	302
20x...F015	11	15	226	56	282	20x...E018	15	18	269	61	331
						20x...E022	20	22	329	74	403
20x...F020	15	20	296	65	361	20x...E023	20	23	332	70	403
20x...F023	18.5	23	327	70	397	20x...E024	20	24	326	71	397
						20x...E027	25	27	411	84	494
20x...F030	22	30	428	85	513	20x...E028	25	28	375	79	453
						20x...E032	30	32	503	105	608
20x...F034	30	34	478	94	573	20x...E033	30	33	439	90	528
						20x...E041	40	41	590	128	718
20x...F046	37	46	649	126	775	20x...E042	40	42	555	112	667
						20x...E052	50	52	784	176	959
20x...F050	45	50	699	138	836	20x...E053	50	53	711	144	855
20x...F061	55	61	760	130	891	20x...E063	60	63	757	132	889
20x...F082	75	82	1044	182	1226	20x...E077	75	77	935	166	1101
20x...F098	90	98	1310	231	1541	20x...E099	100	99	1269	229	1499
20x...F119	110	119	1658	302	1961	20x...E125	125	125	1678	318	1996
20x...F142	132	142	2003	387	2391	20x...E144	150	144	1960	389	2349
20x...F171	160	171	2655	389	3044	20x...E192	200	192	2801	433	3234
20x...F212	200	212	3375	513	3889	20x...E242	250	242	3642	593	4235
20x...F263	250	263	4286	690	4976	20x...E289	300	289	4437	762	5200
2xG...F265	250	265	4314	996	5310	2xG...E295	300	295	4592	1030	5622
2xG...F330	315	330	5160	1127	6287	2xG...E355	350	355	5191	1131	6321
2xG...F370	355	370	5803	1233	7036	2xG...E395	400	395	5812	1240	7052
2xG...F415	400	415	5865	1211	7076	2xG...E435	450	435	5590	1163	6753
2xG...F460	450	460	6638	1337	7975	2xG...E460	500	460	6407	1301	7708
2xG...F500	500	500	7117	1417	8534	2xG...E510	500	510	6946	1396	8342
2xG...F590	560	590	8941	2077	11019	2xG...E595	600	595	8903	2053	10956
2xG...F650	630	650	9865	2220	12085	2xG...E630	700	630	9942	2225	12167
2xG...F710	710	710	11136	2425	13561	2xG...E760	800	760	11093	2424	13517
2xG...F765	750	765	11139	2368	13507	2xG...E825	900	825	11046	2342	13389
2xG...F795	800	795	12663	2611	15275	2xG...E900	950	900	12225	2539	14764
2xG...F960	900	860	13608	2767	16375	2xG...E980	1000	980	13211	2709	15920
2xG...F1K0	1000	1040	16147	3545	19692	2xG...E1K1	1100	1110	16169	3552	19720
2xG...F1K4	1400	1400	19716	4034	23750	2xG...E1K4	1400	1430	19256	3966	23222

(1) Select the watts loss based on the catalog number.
 (2) Frames 8...10, enclosure codes B, L, P, and W.