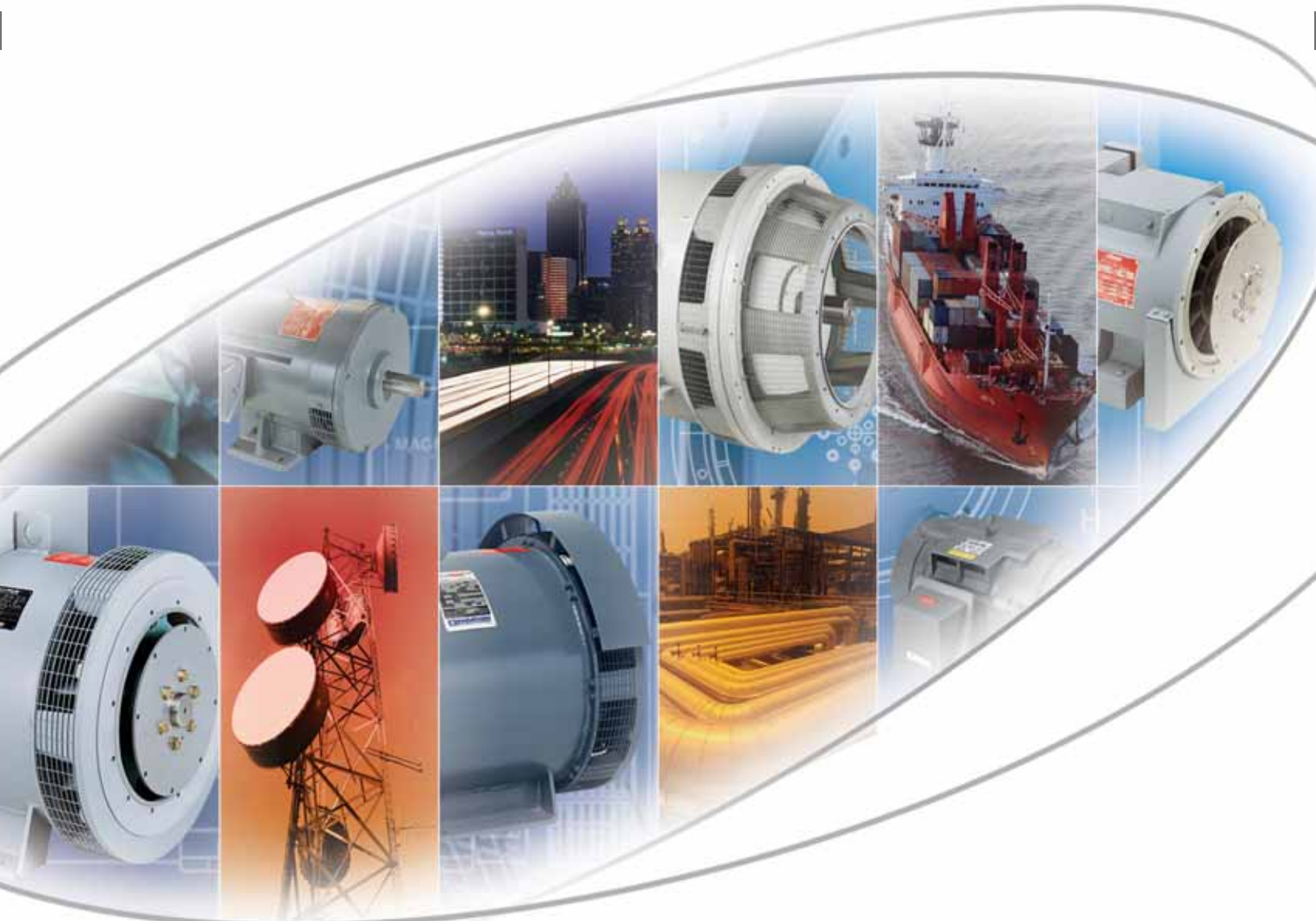


GENERATORS

Selection and Pricing Catalog



UL Listed
Generators...



...to Facilitate Your
UL2200 Gen-Set Listing

MARATHON ELECTRIC
GENERATORS
A REGAL-BELOIT COMPANY

ISO 9001: 2000 Certified



MAGNAPLUS®, MAGNAMAX®, MAGNAPOWER® - 60 Hertz, 1800 RPM, 4 Pole

240Y or 480Y Volts, 480Y Volts	2,3
208Y or 416Y Volts, 240 or 120 Volts Delta	4,5
220Y or 440Y Volts, 440Y Volts	6,7
208Y-240Y or 416Y-480Y Volts, 240 or 120 Volts Delta, Broad Range	8,9
190Y or 380Y Volts, 380Y, 220 or 110 Volts Delta	10,11
380Y Volts, Dedicated Designs	12
600Y Volts, Dedicated Designs	13
Single Phase	
240/120 Volts, 120 Volts Delta, 12 Lead	14
120 or 240/120 Volts, Dedicated, 4 Lead	15

MAGNAMAX® & MAGNAPOWER®, 2400-13800 Volts

Medium Voltage, MAGNAMAX® & MAGNAPOWER®

2400Y/1386 Volts, 1386 Volts Delta, 60 Hz	16
3300Y/1905 Volts, 1905 Volts Delta, 60 Hz	16
4160Y/2402 Volts, 2402 Volts Delta, 60 Hz	17
6600Y/3811 Volts, 3811 Volts Delta, 60 Hz	17
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High Voltage, MAGNAPOWER®

12470Y/7200 Volts, 7200 Volts Delta, 60 Hz	19
13200Y/7621 Volts, 7621 Volts Delta, 60 Hz	19
13800Y/7967 Volts, 7967 Volts Delta, 60 Hz	19
11000Y/6351 Volts, 6351 Volts Delta, 50 Hz	19

MAGNAPLUS®, MAGNAMAX®, MAGNAPOWER® - 50 Hertz, 1500 RPM, 4 Pole

208Y or 415Y Volts, 415Y Volts, 240 or 120 Volts Delta	20,21
190Y or 380Y Volts, 380Y Volts, 220 or 110 Volts Delta	22,23
220Y or 440Y Volts, 440Y Volts	24,25
200Y or 400Y Volts, 400Y Volts, 230 or 115 Volts Delta	26,27
190Y-208Y or 380Y-415Y Volts, Broad Range	28,29
Single Phase	
220/110 Volts, 110 Volts Delta, 12 Lead	30
110 or 220/110 Volts, Dedicated, 4 Lead	30

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**60
Hertz****4-Pole,
Three Phase****240Y or 480Y Volts
(12 Leads)**1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail.	kW Rating @ Designated NEMA Rise					List Price
					Continuous			Standby		
					NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
281PSL1500	205	12	240Y/480Y	No	5.4	6	6.5	6.6	7	
281PSL1501	210	12	240Y/480Y	No	6.7	7.5	8.1	8.2	8.7	
281CSL1502	220	12	240Y/480Y	No	10.5	12	13	13	14	
282PSL1703	240	12	240Y/480Y	Ⓜ	11.5	13.5	14.5	15	15.5	
282CSL1504	250	12	240Y/480Y	No	15	17.5	18	18	19	
282CSL1505	275	12	240Y/480Y	No	20	22	24	24	25	
283CSL1506	310	12	240Y/480Y	No	22	26	28	28	30	
283CSL1507	350	12	240Y/480Y	No	27	31	33	33	35	
284CSL1508	405	12	240Y/480Y	No	30	36	40	40	42	
284CSL1542	420	12	240Y/480Y	No	34	40	43	43	46	
361CSL1600Ⓜ	518	12	240Y/480Y	Yes	40	45	48	48	50	
361CSL1601Ⓜ	569	12	240Y/480Y	Yes	49	55	60	60	65	
361CSL1602Ⓜ	620	12	240Y/480Y	Yes	58	65	70	70	76	
362CSL1604Ⓜ	706	12	240Y/480Y	Yes	75	84	90	90	95	
362CSL1606Ⓜ	796	12	240Y/480Y	Yes	80	96	105	105	113	
363CSL1607Ⓜ	943	12	240Y/480Y	Yes	110	125	135	135	150	
431CSL6202Ⓜ	1220	12	240Y/480Y	Yes	125	142	151	155	160	
431CSL6204Ⓜ	1310	12	240Y/480Y	Yes	143	170	180	181	190	
431CSL6206Ⓜ	1415	12	240Y/480Y	Yes	165	200	211	215	225	
431CSL6208Ⓜ	1455	12	240Y/480Y	Yes	180	211	226	230	240	
432PSL6210	1685	12	240Y/480Y	Yes	220	260	275	280	291	
432PSL6212	1760	12	240Y/480Y	Yes	230	275	300	300	310	
433PSL6216	2235	12	240Y/480Y	Yes	280	342	375	380	400	
433PSL6220	2245	12	240Y/480Y	Yes	310	375	403	415	430	

MAGNAPLUS Alternate Models③

281PSL1502	220	12	240Y/480Y	No	9.5	10.5	11	11	12	
282PSL1704	270	12	240Y/480Y	②	12.5	15	16.5	16.5	17.5	
282PSL1705	295	12	240Y/480Y	②	17	20	21	21	22	
283PSL1706	336	12	240Y/480Y	②	22	25	27	27	29	
283PSL1707	366	12	240Y/480Y	②	25	30	33	33	35	
284PSL1708	405	12	240Y/480Y	Yes	30	32	35	35	40	
284PSL1742	436	12	240Y/480Y	Yes	32	36	40	40	45	
285PSL1700	480	12	240Y/480Y	Yes	38	43	45	45	50	
286PSL1701	600	12	240Y/480Y	Yes	44	52	58	58	62	
287PSL1702	670	12	240Y/480Y	Yes	50	58	62	62	67	

① 361 to 431 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

240Y or 480Y Volts
(10-12 Leads)
480Y Volts (4-6 Leads)

**4-Pole,
Three Phase**

**60
Hertz**

MAGNA^{MAX}DVR®

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	kW Rating @ Designated NEMA Rise					List Price
				Continuous			Standby		
				NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431RSL4005	1280	12	240Y/480Y	126	145	154	155	160	
431RSL4007	1370	12	240Y/480Y	140	165	175	175	185	
432RSL4009	1550	12	240Y/480Y	172	203	215	215	226	
432RSL4011	1570	12	240Y/480Y	192	221	231	231	250	
432RSL4013	1600	12	240Y/480Y	200	235	250	250	263	
432RSL4015	1810	12	240Y/480Y	230	275	285	285	300	
432RSL4017	1830	12	240Y/480Y	230	275	292	300	310	
433RSL4019	2340	12	240Y/480Y	305	350	375	375	415	
433RSL4021	2365	12	240Y/480Y	330	380	405	405	440	
572RSL4024	2730	10	240Y/480Y	380	450	475	475	505	
572RSL4025	2730	12	240Y/480Y	380	450	475	475	505	
572RSL4027	2840	12	240Y/480Y	440	500	515	515	560	
572RSL4028	3050	10	240Y/480Y	445	535	560	560	610	
572RSL4029	3050	12	240Y/480Y	445	535	560	560	610	
572RSL4030	3110	10	240Y/480Y	485	575	600	600	645	
572RSL4031	3110	12	240Y/480Y	485	575	600	600	645	
573RSL4032	3400	10	240Y/480Y	570	680	700	700	765	
573RSL4033	3400	12	240Y/480Y	570	680	700	700	765	
573RSL4034	3620	10	240Y/480Y	585	710	750	750	810	
573RSL4035	3620	12	240Y/480Y	585	710	750	750	810	
574RSL4036	4080	10	240Y/480Y	670	800	825	825	900	
574RSL4037	4080	12	240Y/480Y	670	800	825	825	900	
574RSL4038	4240	4	480Y Only	720	860	915	920	970	
575RSL4044	5000	4 Bars	480Y Only	800	975	1050	1060	1130	
741RSL4045	5490	12	240Y/480Y	865	1030	1080	1100	1100	
740RSL4046	5200	4 Bars	480Y Only	950	1120	1200	1220	1250	
742RSL4048	6300	4 Bars	480Y Only	1000	1200	1260	1300	1300	
742RSL4049	6300	12	240Y/480Y	1000	1200	1260	1300	1300	
742RSL4050	7230	4 Bars	480Y Only	1220	1430	1500	1500	1520	
743RSL4052	7800	4 Bars	480Y Only	1310	1600	1700	1750	1750	
744RSL4054	8600	4 Bars	480Y Only	1500	1850	1960	2000	2000	
744RSL4056	9740	4 Bars	480Y Only	1700	2010	2160	2210	2260	
744RSL4058	9740	4 Bars	480Y Only	1760	2100	2270	2320	2370	
Form Wound Coil Designs									
744FSL4060	7300	4 Bars	480Y Only	1200	1430	1500	1500	1500	
744FSL4062	8300	4 Bars	480Y Only	1500	1800	1900	1900	1900	

MAGNA^{POWER}® ①②

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Continuous						Standby				List Price
				NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
				kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
1020FDL1002	15000	6	480Y Only	2188	1750	2500	2000	2813	2250	2813	2250	2813	2250	
1020FDL1003	16100	6	480Y Only	2500	2000	2813	2250	3125	2500	3125	2500	3125	2500	
1020FDL1004	17200	6	480Y Only	2813	2250	3125	2500	3500	2800	3500	2800	3500	2800	
1030FDL1005	19300	6	480Y Only	3125	2500	3500	2800	3750	3000	3750	3000	3750	3000	
1030FDL1006	22500	6	480Y Only	3125	2500	3750	3000	3750	3000	3750	3000	3750	3000	

① All 1000 frame generators have 4 bus bars, with the capability of differential protection.

② All 1000 frame generators incorporate form wound coils and VPI insulation systems.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****4-Pole,
Three Phase****208Y or 416Y Volts (12 Leads)
240 or 120 Volts Delta (12 Leads)**1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail.	kW Rating @ Designated NEMA Rise					List Price
					Continuous			Standby		
					NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
281PSL1500	205	12	208Y/416Y	No	5.8	6.4	6.9	7	7.4	
281PSL1501	210	12	208Y/416Y	No	7.2	8	8.6	8.7	9.2	
281CSL1502	220	12	208Y/416Y	No	9.5	10	11	11	12	
282PSL1703	240	12	208Y/416Y	②	11	12.5	13	13.5	14	
282CSL1504	250	12	208Y/416Y	No	13.5	16	17	17	17.5	
282CSL1505	275	12	208Y/416Y	No	19	21	22	22	23	
283CSL1506	310	12	208Y/416Y	No	20	24	26	26	27	
283CSL1507	350	12	208Y/416Y	No	24	27	30	30	32	
284CSL1508	405	12	208Y/416Y	No	30	35	38	38	40	
284CSL1542	420	12	208Y/416Y	No	32	36	40	40	41	
361CSL1600①	518	12	208Y/416Y	Yes	35	40	42	42	45	
361CSL1601①	569	12	208Y/416Y	Yes	45	50	55	55	58	
361CSL1602①	620	12	208Y/416Y	Yes	53	60	65	65	68	
362CSL1604①	706	12	208Y/416Y	Yes	65	72	80	80	85	
362CSL1606①	796	12	208Y/416Y	Yes	80	90	100	100	105	
363CSL1607①	943	12	208Y/416Y	Yes	100	110	125	125	135	
431CSL6202①	1220	12	208Y/416Y	Yes	125	140	147	151	155	
431CSL6204①	1310	12	208Y/416Y	Yes	142	165	175	176	182	
431CSL6206①	1415	12	208Y/416Y	Yes	170	191	202	210	217	
431CSL6208①	1455	12	208Y/416Y	Yes	176	203	216	225	227	
432PSL6210	1685	12	208Y/416Y	Yes	220	260	275	280	287	
432PSL6212	1760	12	208Y/416Y	Yes	225	260	276	280	300	
433PSL6216	2235	12	208Y/416Y	Yes	290	343	366	375	387	
433PSL6220	2245	12	208Y/416Y	Yes	315	362	385	400	417	

MAGNAPLUS Alternate Models③

281PSL1502	220	12	208Y/416Y	No	9	10	10.5	10.5	11	
282PSL1704	270	12	208Y/416Y	②	12.5	15	16	16	17.5	
282PSL1705	295	12	208Y/416Y	②	17	20	21	21	22	
283PSL1706	336	12	208Y/416Y	②	21	23	25	25	28	
283PSL1707	366	12	208Y/416Y	②	24	28	30	30	33	
284PSL1708	405	12	208Y/416Y	Yes	30	32	35	35	40	
284PSL1742	436	12	208Y/416Y	Yes	32	36	40	40	42	
285PSL1700	480	12	208Y/416Y	Yes	36	40	45	45	47	
286PSL1701	600	12	208Y/416Y	Yes	42	50	55	55	58	
287PSL1702	670	12	208Y/416Y	Yes	48	55	60	60	63	

① 361 to 431 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

208Y or 416Y Volts (10-12 Leads)
416Y Volts (4 Leads)
240 or 120 Volts Delta (12 Leads)

**4-Pole,
Three Phase**

**60
Hertz**

MAGNA MAX^{DVR}

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	kW Rating @ Designated NEMA Rise					List Price
				Continuous			Standby		
				NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431RSL4005	1280	12	208Y/416Y	118	132	138	138	138	
431RSL4007	1370	12	208Y/416Y	132	150	160	160	168	
432RSL4009	1550	12	208Y/416Y	166	187	200	200	200	
432RSL4011	1570	12	208Y/416Y	183	207	219	221	221	
432RSL4013	1600	12	208Y/416Y	193	219	231	235	250	
432RSL4015	1810	12	208Y/416Y	232	262	262	262	262	
432RSL4017	1830	12	208Y/416Y	238	275	287	287	310	
433RSL4019	2340	12	208Y/416Y	290	325	350	350	360	
433RSL4021	2365	12	208Y/416Y	315	355	375	380	400	
572RSL4024	2730	10	208Y/416Y	385	435	440	440	450	
572RSL4025	2730	12	208Y/416Y	385	435	440	440	450	
572RSL4027	2840	12	208Y/416Y	400	445	470	475	505	
572RSL4028	3050	10	208Y/416Y	450	510	525	525	535	
572RSL4029	3050	12	208Y/416Y	450	510	525	525	535	
572RSL4030	3110	10	208Y/416Y	460	525	555	565	600	
572RSL4031	3110	12	208Y/416Y	460	525	555	565	600	
573RSL4032	3400	10	208Y/416Y	570	650	685	700	725	
573RSL4033	3400	12	208Y/416Y	570	650	685	700	725	
573RSL4034	3620	10	208Y/416Y	590	680	720	725	725	
573RSL4035	3620	12	208Y/416Y	590	680	720	725	725	
574RSL4036	4080	10	208Y/416Y	630	725	770	785	825	
574RSL4037	4080	12	208Y/416Y	630	725	770	785	825	
574RSL4038	4240	4	416Y Only	675	770	820	835	885	
575RSL4044	5000	4 Bars	416Y Only	760	890	950	975	1040	
741RSL4045	5490	12	208Y/416Y	810	920	970	1000	1020	
740RSL4046	5200	4 Bars	416Y Only	880	1020	1090	1110	1180	
742RSL4048	6300	4 Bars	416Y Only	950	1100	1160	1180	1250	
742RSL4049	6300	12	208Y/416Y	950	1100	1160	1180	1250	
742RSL4050	7230	4 Bars	416Y Only	1110	1270	1340	1370	1410	
743RSL4052	7800	4 Bars	416Y Only	1400	1610	1610	1610	1620	
744RSL4054	8600	4 Bars	416Y Only	1420	1680	1800	1840	1840	
744RSL4056	9740	4 Bars	480Y Only	1520	1780	1900	1950	2000	
744RSL4058	9740	4 Bars	416Y Only	1640	1920	2050	2090	2240	
Form Wound Coil Designs									
744FSL4060	7300	4 Bars	416Y Only	1190	1380	1440	1440	1440	
744FSL4062	8300	4 Bars	416Y Only	1510	1750	1830	1830	1830	

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****4-Pole,
Three Phase****220Y or 440Y Volts
(12 Leads)**1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail.	kW Rating @ Designated NEMA Rise					List Price
					Continuous			Standby		
					NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
281PSL1500	205	12	220Y/440Y	No	5.8	6.4	6.9	7	7.4	
281PSL1501	210	12	220Y/440Y	No	7.2	8	8.6	8.7	9.2	
281CSL1502	220	12	220Y/440Y	No	10	11	11.5	11.5	12.5	
282PSL1703	240	12	220Y/440Y	②	11.5	13.5	14.5	15	15	
282CSL1504	250	12	220Y/440Y	No	14	16.5	17.5	17.5	18.5	
282CSL1505	275	12	220Y/440Y	No	19	21	23	23	24	
283CSL1506	310	12	220Y/440Y	No	21	25	27	27	28	
283CSL1507	350	12	220Y/440Y	No	25	28	31	31	33	
284CSL1508	405	12	220Y/440Y	No	30	35	39	39	41	
284CSL1542	420	12	220Y/440Y	No	33	37	41	41	43	
361CSL1600①	518	12	220Y/440Y	Yes	37	42	45	45	47	
361CSL1601①	569	12	220Y/440Y	Yes	48	53	58	58	61	
361CSL1602①	620	12	220Y/440Y	Yes	56	63	68	68	71	
362CSL1604①	706	12	220Y/440Y	Yes	68	76	84	84	89	
362CSL1606①	796	12	220Y/440Y	Yes	82	92	102	102	107	
363CSL1607①	943	12	220Y/440Y	Yes	105	115	130	130	140	
431CSL6202①	1220	12	220Y/440Y	Yes	125	143	151	153	160	
431CSL6204①	1310	12	220Y/440Y	Yes	143	167	177	180	185	
431CSL6206①	1415	12	220Y/440Y	Yes	172	200	212	220	226	
431CSL6208①	1455	12	220Y/440Y	Yes	180	210	221	225	233	
432PSL6210	1685	12	220Y/440Y	Yes	221	261	278	283	292	
432PSL6212	1760	12	220Y/440Y	Yes	227	266	285	290	300	
433PSL6216	2235	12	220Y/440Y	Yes	290	348	372	380	395	
433PSL6220	2245	12	220Y/440Y	Yes	317	375	397	410	423	

MAGNAPLUS Alternate Models③

281PSL1502	220	12	220Y/440Y	No	9.2	10	11	11	11.5	
282PSL1704	270	12	220Y/440Y	②	12.5	15	16.2	16.2	17.5	
282PSL1705	295	12	220Y/440Y	②	17	20	21	21	22	
283PSL1706	336	12	220Y/440Y	②	21	24	26	26	28	
283PSL1707	366	12	220Y/440Y	②	24	29	31	31	34	
284PSL1708	405	12	220Y/440Y	Yes	30	32	35	35	40	
284PSL1742	436	12	220Y/440Y	Yes	32	36	40	40	43	
285PSL1700	480	12	220Y/440Y	Yes	37	41	45	45	48	
286PSL1701	600	12	220Y/440Y	Yes	43	50	56	56	60	
287PSL1702	670	12	220Y/440Y	Yes	49	56	61	61	65	

① 361 to 431 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

220Y or 440Y Volts
(10-12 Leads)
440Y Volts (4 Leads)

4-Pole,
Three Phase

60
Hertz

MAGNA**MAX**^{DVR}

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	kW Rating @ Designated NEMA Rise					List Price
				Continuous			Standby		
				NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431RSL4005	1280	12	220Y/440Y	126	140	146	146	146	
431RSL4007	1370	12	220Y/440Y	139	156	165	168	177	
432RSL4009	1550	12	220Y/440Y	178	201	207	207	207	
432RSL4011	1570	12	220Y/440Y	191	217	230	235	235	
432RSL4013	1600	12	220Y/440Y	202	230	240	240	256	
432RSL4015	1810	12	220Y/440Y	243	276	277	277	277	
432RSL4017	1830	12	220Y/440Y	245	280	295	295	315	
433RSL4019	2340	12	220Y/440Y	300	335	360	360	375	
433RSL4021	2365	12	220Y/440Y	315	360	380	390	410	
572RSL4024	2730	10	220Y/440Y	400	455	465	465	465	
572RSL4025	2730	12	220Y/440Y	400	455	465	465	465	
572RSL4027	2840	12	220Y/440Y	410	460	485	500	520	
572RSL4028	3050	10	220Y/440Y	470	535	560	560	560	
572RSL4029	3050	12	220Y/440Y	470	535	560	560	560	
572RSL4030	3110	10	220Y/440Y	480	545	580	590	625	
572RSL4031	3110	12	220Y/440Y	480	545	580	590	625	
573RSL4032	3400	10	220Y/440Y	595	680	725	730	765	
573RSL4033	3400	12	220Y/440Y	595	680	725	730	765	
573RSL4034	3620	10	220Y/440Y	620	715	760	765	765	
573RSL4035	3620	12	220Y/440Y	620	715	760	765	765	
574RSL4036	4080	10	220Y/440Y	660	760	805	820	875	
574RSL4037	4080	12	220Y/440Y	660	760	805	820	875	
574RSL4038	4240	4	440Y Only	705	810	860	875	930	
575RSL4044	5000	4 Bars	440Y Only	785	925	995	1010	1090	
741RSL4045	5490	12	220Y/440Y	840	960	1020	1030	1070	
740RSL4046	5200	4 Bars	440Y Only	915	1070	1140	1160	1240	
742RSL4048	6300	4 Bars	440Y Only	1000	1140	1220	1240	1280	
742RSL4049	6300	12	220Y/440Y	1000	1140	1220	1240	1280	
742RSL4050	7230	4 Bars	440Y Only	1160	1340	1420	1450	1500	
743RSL4052	7800	4 Bars	440Y Only	1420	1680	1710	1710	1710	
744RSL4054	8600	4 Bars	440Y Only	1460	1750	1880	1920	1920	
744RSL4056	9740	4 Bars	480Y Only	1590	1860	1990	2030	2100	
744RSL4058	9740	4 Bars	440Y Only	1690	1990	2140	2180	2340	
Form Wound Coil Designs									
744FSL4060	7300	4 Bars	440Y Only	1210	1400	1460	1460	1460	
744FSL4062	8300	4 Bars	440Y Only	1530	1780	1860	1860	1860	

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****4-Pole,
Three Phase,
Broad Range****208Y-240Y or 416Y-480Y Volts
(12 Leads)
240 or 120 Volts Delta (12 Leads)**1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail	kW Rating @ Designated NEMA Rise					List Price
					Continuous			Standby		
					NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
281PSL1500	205	12	208Y-240Y/416Y-480Y	No	5.4	6	6.5	6.6	7	
281PSL1501	210	12	208Y-240Y/416Y-480Y	No	6.7	7.5	8.1	8.2	8.7	
281CSL1502	220	12	208Y-240Y/416Y-480Y	No	9.5	10	11	11	12	
282PSL1703	240	12	208Y-240Y/416Y-480Y	②	11	12.5	13	13.5	14	
282CSL1504	250	12	208Y-240Y/416Y-480Y	No	13.5	16	17	17	17.5	
282CSL1505	275	12	208Y-240Y/416Y-480Y	No	19	21	22	22	23	
283CSL1506	310	12	208Y-240Y/416Y-480Y	No	20	24	26	26	27	
283CSL1507	350	12	208Y-240Y/416Y-480Y	No	24	27	30	30	32	
284CSL1508	405	12	208Y-240Y/416Y-480Y	No	30	35	38	38	40	
284CSL1542	420	12	208Y-240Y/416Y-480Y	No	32	36	40	40	41	
361CSL1600①	518	12	208Y-240Y/416Y-480Y	Yes	35	40	42	42	45	
361CSL1601①	569	12	208Y-240Y/416Y-480Y	Yes	45	50	55	55	58	
361CSL1602①	620	12	208Y-240Y/416Y-480Y	Yes	53	60	65	65	68	
362CSL1604①	706	12	208Y-240Y/416Y-480Y	Yes	65	72	80	80	85	
362CSL1606①	796	12	208Y-240Y/416Y-480Y	Yes	80	90	100	100	105	
363CSL1607①	943	12	208Y-240Y/416Y-480Y	Yes	100	110	125	125	135	
431CSL6202①	1220	12	208Y-240Y/416Y-480Y	Yes	125	140	147	151	155	
431CSL6204①	1310	12	208Y-240Y/416Y-480Y	Yes	142	165	175	176	182	
431CSL6206①	1415	12	208Y-240Y/416Y-480Y	Yes	165	191	202	210	217	
431CSL6208①	1455	12	208Y-240Y/416Y-480Y	Yes	176	203	216	225	227	
432PSL6210	1685	12	208Y-240Y/416Y-480Y	Yes	211	255	275	280	287	
432PSL6212	1760	12	208Y-240Y/416Y-480Y	Yes	225	260	276	280	300	
433PSL6216	2235	12	208Y-240Y/416Y-480Y	Yes	280	342	366	375	387	
433PSL6220	2245	12	208Y-240Y/416Y-480Y	Yes	310	362	385	400	417	

MAGNAPLUS Alternate Models③

281PSL1502	220	12	208Y-240Y/416Y-480Y	No	9	10	10.5	10.5	11	
282PSL1704	270	12	208Y-240Y/416Y-480Y	②	12.5	15	16	16	17.5	
282PSL1705	295	12	208Y-240Y/416Y-480Y	②	17	20	21	21	22	
283PSL1706	336	12	208Y-240Y/416Y-480Y	②	21	23	25	25	28	
283PSL1707	366	12	208Y-240Y/416Y-480Y	②	24	28	30	30	33	
284PSL1708	405	12	208Y-240Y/416Y-480Y	Yes	30	32	35	35	40	
284PSL1742	436	12	208Y-240Y/416Y-480Y	Yes	32	36	40	40	42	
285PSL1700	480	12	208Y-240Y/416Y-480Y	Yes	36	40	45	45	47	
286PSL1701	600	12	208Y-240Y/416Y-480Y	Yes	42	50	55	55	58	
287PSL1702	670	12	208Y-240Y/416Y-480Y	Yes	48	55	60	60	63	

① 361 to 431 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

208Y-240Y or 416Y-480Y Volts
(10-12 Leads)
240 or 120 Volts Delta
(12 Leads)

**4-Pole,
Three Phase,
Broad Range**

**60
Hertz**

MAGNA MAX^{DVR}

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	kW Rating @ Designated NEMA Rise					List Price
				Continuous			Standby		
				NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431RSL4005	1280	12	208Y-240Y/416Y-480Y	118	132	138	138	138	
431RSL4007	1370	12	208Y-240Y/416Y-480Y	132	150	160	160	168	
432RSL4009	1550	12	208Y-240Y/416Y-480Y	166	187	200	200	200	
432RSL4011	1570	12	208Y-240Y/416Y-480Y	183	207	219	221	221	
432RSL4013	1600	12	208Y-240Y/416Y-480Y	193	219	231	235	250	
432RSL4015	1810	12	208Y-240Y/416Y-480Y	230	262	262	262	262	
432RSL4017	1830	12	208Y-240Y/416Y-480Y	230	275	287	287	310	
433RSL4019	2340	12	208Y-240Y/416Y-480Y	290	325	350	350	360	
433RSL4021	2365	12	208Y-240Y/416Y-480Y	305	345	365	370	400	
572RSL4024	2730	10	208Y-240Y/416Y-480Y	380	435	440	440	450	
572RSL4025	2730	12	208Y-240Y/416Y-480Y	380	435	440	440	450	
572RSL4027	2840	12	208Y-240Y/416Y-480Y	400	445	470	475	505	
572RSL4028	3050	10	208Y-240Y/416Y-480Y	445	510	525	525	535	
572RSL4029	3050	12	208Y-240Y/416Y-480Y	445	510	525	525	535	
572RSL4030	3110	10	208Y-240Y/416Y-480Y	460	525	555	565	600	
572RSL4031	3110	12	208Y-240Y/416Y-480Y	460	525	555	565	600	
573RSL4032	3400	10	208Y-240Y/416Y-480Y	570	650	685	700	725	
573RSL4033	3400	12	208Y-240Y/416Y-480Y	570	650	685	700	725	
573RSL4034	3620	10	208Y-240Y/416Y-480Y	585	680	720	725	725	
573RSL4035	3620	12	208Y-240Y/416Y-480Y	585	680	720	725	725	
574RSL4036	4080	10	208Y-240Y/416Y-480Y	630	725	770	785	825	
574RSL4037	4080	12	208Y-240Y/416Y-480Y	630	725	770	785	825	
741RSL4045	5490	12	208Y-240Y/416Y-480Y	810	920	970	1000	1020	
742RSL4049	6300	12	208Y-240Y/416Y-480Y	950	1100	1160	1180	1250	

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****4-Pole,
Three Phase**
(Standard 480 Volt Designs)**190Y or 380Y Volts (12 Leads)
220 or 110 Volts Delta (12 Leads)**1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail.	kW Rating @ Designated NEMA Rise					List Price
					Continuous			Standby		
					NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
281PSL1500	205	12	190Y/380Y	No	5.8	6.4	6.9	7	7.4	
281PSL1501	210	12	190Y/380Y	No	7.2	8	8.6	8.7	9.2	
281CSL1502	220	12	190Y/380Y	No	8.5	9	10	10	11	
282PSL1703	240	12	190Y/380Y	②	10	11.5	12.5	12.5	13	
282CSL1504	250	12	190Y/380Y	No	12	14.5	15.5	15.5	16	
282CSL1505	275	12	190Y/380Y	No	17.5	19	20	20	21	
283CSL1506	310	12	190Y/380Y	No	18	22	23	23	24	
283CSL1507	350	12	190Y/380Y	No	22	25	27	27	29	
284CSL1508	405	12	190Y/380Y	No	27	32	35	35	36	
284CSL1542	420	12	190Y/380Y	No	29	33	36	36	38	
361CSL1600①	518	12	190Y/380Y	Yes	32	36	38	38	41	
361CSL1601①	569	12	190Y/380Y	Yes	41	45	50	50	52	
361CSL1602①	620	12	190Y/380Y	Yes	48	55	60	60	62	
362CSL1604①	706	12	190Y/380Y	Yes	60	65	72	72	77	
362CSL1606①	796	12	190Y/380Y	Yes	72	81	90	90	95	
363CSL1607①	943	12	190Y/380Y	Yes	90	100	115	115	125	
431CSL6202①	1220	12	190Y/380Y	Yes	115	130	135	140	145	
431CSL6204①	1310	12	190Y/380Y	Yes	136	155	165	167	172	
431CSL6206①	1415	12	190Y/380Y	Yes	156	176	185	191	200	
431CSL6208①	1455	12	190Y/380Y	Yes	167	192	203	207	213	
432PSL6210	1685	12	190Y/380Y	Yes	213	245	260	265	275	
432PSL6212	1760	12	190Y/380Y	Yes	212	243	256	265	275	
433PSL6216	2235	12	190Y/380Y	Yes	281	330	350	357	370	
433PSL6220	2245	12	190Y/380Y	Yes	292	335	355	367	385	

MAGNAPLUS Alternate Models③

281PSL1502	220	12	190Y/380Y	No	8	9	9.6	10	10	
282PSL1704	270	12	190Y/380Y	②	11.5	13.5	14.5	14.6	16	
282PSL1705	295	12	190Y/380Y	②	15	18	19	19	20	
283PSL1706	336	12	190Y/380Y	②	19	21	23	23	26	
283PSL1707	366	12	190Y/380Y	②	22	26	27	27	30	
284PSL1708	405	12	190Y/380Y	Yes	27	29	32	32	37	
284PSL1742	436	12	190Y/380Y	Yes	29	33	37	37	38	
285PSL1700	480	12	190Y/380Y	Yes	33	37	41	41	43	
286PSL1701	600	12	190Y/380Y	Yes	38	46	50	50	53	
287PSL1702	670	12	190Y/380Y	Yes	44	50	55	55	58	

See dedicated 380 Volt generators on page 12
for improved ratings and transient performance.

① 361 to 431 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

190Y or 380Y Volts (10-12 Leads)
380Y Volts (4 Leads)
220 or 110 Volts Delta (12 Leads)

**4-Pole,
Three Phase**
(Standard 480 Volt Designs)

**60
Hertz**

MAGNA MAX^{DVR}

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	kW Rating @ Designated NEMA Rise					List Price
				Continuous			Standby		
				NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431RSL4005	1280	12	190Y/380Y	109	122	122	122	122	
431RSL4007	1370	12	190Y/380Y	121	136	136	136	136	
432RSL4009	1550	12	190Y/380Y	152	170	170	170	170	
432RSL4011	1570	12	190Y/380Y	169	190	190	190	190	
432RSL4013	1600	12	190Y/380Y	180	200	200	200	200	
432RSL4015	1810	12	190Y/380Y	217	240	240	240	240	
432RSL4017	1830	12	190Y/380Y	225	255	255	255	255	
433RSL4019	2340	12	190Y/380Y	275	305	305	305	305	
433RSL4021	2365	12	190Y/380Y	280	315	315	315	315	
572RSL4024	2730	10	190Y/380Y	350	400	400	400	400	
572RSL4025	2730	12	190Y/380Y	350	400	400	400	400	
572RSL4027	2840	12	190Y/380Y	360	405	405	405	405	
572RSL4028	3050	10	190Y/380Y	415	470	470	470	470	
572RSL4029	3050	12	190Y/380Y	415	470	470	470	470	
572RSL4030	3110	10	190Y/380Y	425	485	485	485	485	
572RSL4031	3110	12	190Y/380Y	425	485	485	485	485	
573RSL4032	3400	10	190Y/380Y	525	595	595	595	595	
573RSL4033	3400	12	190Y/380Y	525	595	595	595	595	
573RSL4034	3620	10	190Y/380Y	545	625	625	625	625	
573RSL4035	3620	12	190Y/380Y	545	625	625	625	625	
574RSL4036	4080	10	190Y/380Y	590	670	670	670	670	
574RSL4037	4080	12	190Y/380Y	590	670	670	670	670	
574RSL4038	4240	4	380Y Only	620	705	705	705	705	
575RSL4044	5000	4 Bars	380Y Only	720	830	830	830	830	
741RSL4045	5490	12	190Y/380Y	740	840	840	840	840	
740RSL4046	5200	4 Bars	380Y Only	825	945	945	945	945	
742RSL4048	6300	4 Bars	380Y Only	900	1030	1030	1030	1030	
742RSL4049	6300	12	190Y/380Y	900	1030	1030	1030	1030	
742RSL4050	7230	4 Bars	380Y Only	1020	1160	1160	1160	1160	
743RSL4052	7800	4 Bars	380Y Only	1290	1480	1480	1480	1480	
744RSL4054	8600	4 Bars	380Y Only	1360	1590	1590	1590	1590	
744RSL4056	9740	4 Bars	480Y Only	1430	1650	1750	1790	1850	
744RSL4058	9740	4 Bars	380Y Only	1550	1790	1910	1950	2070	
Form Wound Coil Designs									
744FSL4060	7300	4 Bars	380Y Only	1120	1280	1280	1280	1280	
744FSL4062	8300	4 Bars	380Y Only	1430	1650	1650	1650	1650	

See dedicated 380 Volt generators on page 12
for improved ratings and transient performance.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****4-Pole,
Three Phase,
Dedicated Design****380Y/219 Volts
(4 Leads)**1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging**MAGNAPLUS****Shunt (Non-PMG) Excitation**

Base Model	Net Wt. (lbs.)	No. of Leads	Bolt-on PMG Option Avail.	Std. AVR	kW Rating @ Designated NEMA Rise					List Price
					Continuous			Standby		
					NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431PSL6230	1220	4	Yes	SE350	125	140	150	155	160	
431PSL6232	1415	4	Yes	SE350	140	165	175	180	185	
431PSL6234	1455	4	Yes	SE350	175	200	220	225	230	
432PSL6236	1760	4	Yes	SE350	225	265	285	290	300	
433PSL6238	2245	4	Yes	SE350	300	350	375	390	400	

MAGNAMAX^{DVR}**PMG Excitation**

Base Model	Net Wt. (lbs.)	No. of Leads	Std. AVR	kW Rating @ Designated NEMA Rise					List Price
				Continuous			Standby		
				NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431RSL4152	1280	4	DVR*2000E	120	140	150	150	160	
432RSL4154	1550	4	DVR*2000E	165	185	200	200	200	
432RSL4156	1830	4	DVR*2000E	225	275	290	300	310	
433RSL4158	2365	4	DVR*2000E	300	345	370	370	400	
572RSL4160	2730	4	DVR*2000E	355	425	450	450	480	
572RSL4162	2840	4	DVR*2000E	425	485	500	500	525	
573RSL4164	3400	4	DVR*2000E	510	605	640	640	700	
574RSL4166	4080	4	DVR*2000E	670	800	830	830	900	
574RSL4168	4240	4	DVR*2000E	715	855	910	915	965	
741RSL4170	5490	4 Bars	DVR*2000E	850	1015	1065	1085	1085	
742RSL4172	6300	4 Bars	DVR*2000E	1000	1200	1260	1300	1300	
743RSL4174	7800	4 Bars	DVR*2000E	1260	1550	1650	1700	1700	
744RSL4176	8600	4 Bars	DVR*2000E	1500	1850	1950	2000	2000	

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging

600Y/346 Volts
(4 Leads)

**4-Pole,
Three Phase,
Dedicated Design**

**60
Hertz**

MAGNAPLUS

Shunt (Non-PMG) Excitation

Base Model	Net Wt. (lbs.)	No. of Leads	Bolt-on PMG Option Avail.	Std. AVR	kW Rating @ Designated NEMA Rise					List Price
					Continuous			Standby		
					NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
284PSL1752	405	4	Yes	SE350	28	32	35	35	38	
361PSL1632	518	4	Yes	SE350	40	45	48	48	50	
361PSL1633	569	4	Yes	SE350	49	55	60	60	65	
361PSL1634	620	4	Yes	SE350	58	65	70	70	76	
362PSL1635	706	4	Yes	SE350	75	84	90	90	95	
362PSL1636	796	4	Yes	SE350	80	96	105	105	113	
363PSL1658	943	4	Yes	SE350	110	125	135	135	150	
431PSL6240	1220	4	Yes	SE350	125	140	150	155	160	
431PSL6242	1415	4	Yes	SE350	140	170	175	180	190	
431PSL6243	1455	4	Yes	SE350	180	210	225	230	240	
432PSL6246	1760	4	Yes	SE350	230	275	300	305	310	
433PSL6248	2245	4	Yes	SE350	310	375	400	410	430	

MAGNAMAX^{DVR}

PMG Excitation

Base Model	Net Wt. (lbs.)	No. of Leads	Std. AVR	kW Rating @ Designated NEMA Rise					List Price
				Continuous			Standby		
				NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431RSS4252	1280	4	DVR®2000E	125	145	150	150	155	
431RSS4254	1370	4	DVR®2000E	135	160	165	175	175	
432RSS4256	1550	4	DVR®2000E	170	200	210	210	215	
432RSS4258	1570	4	DVR®2000E	185	215	225	225	245	
432RSS4260	1600	4	DVR®2000E	200	235	250	250	260	
432RSS4264	1830	4	DVR®2000E	225	275	290	300	310	
433RSS4266	2365	4	DVR®2000E	325	375	400	400	435	
572RSS4270	2840	4	DVR®2000E	420	475	500	510	540	
572RSS4272	3110	4	DVR®2000E	485	575	600	600	640	
573RSS4274	3400	4	DVR®2000E	530	640	660	660	710	
573RSS4276	3620	4	DVR®2000E	565	685	725	725	780	
574RSS4278	4080	4	DVR®2000E	665	800	825	825	875	
574RSS4280	4240	4	DVR®2000E	700	840	895	900	950	
741RSS4282	5300	4 Bars	DVR®2000E	765	950	1000	1040	1050	
741RSS4284	5490	4 Bars	DVR®2000E	865	1030	1080	1100	1100	
742RSS4286	5950	4 Bars	DVR®2000E	960	1100	1180	1200	1200	
743RSS4288	7230	4 Bars	DVR®2000E	1120	1330	1330	1400	1400	
743RSS4290	7800	4 Bars	DVR®2000E	1300	1550	1650	1700	1700	
744RSS4292	8600	4 Bars	DVR®2000E	1500	1850	1950	2000	2000	

MAGNAPOWER^{①②}

PMG Excitation

Base Model	Net Wt. (lbs.)	No. of Leads	Std AVR	Continuous						Standby				List Price
				NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
				kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
1020FDS1013	16000	6	DVR*2000E	2188	1750	2500	2000	2813	2250	2813	2250	2813	2250	
1020FDS1016	16500	6	DVR*2000E	2500	2000	2813	2250	3125	2500	3125	2500	3125	2500	
1020FDS1014	17600	6	DVR*2000E	2813	2250	3125	2500	3500	2800	3500	2800	3500	2800	
1030FDS1015	19300	6	DVR*2000E	3125	2500	3500	2800	3750	3000	3750	3000	3750	3000	

① All 1000 frame generators have 4 bus bars, with the capability of differential protection.

② All 1000 frame generators incorporate form wound coils and VPI insulation systems.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****4-Pole,
Single Phase****240/120 Volts (12 Leads)⑤
480/240 Volts (12 Leads)⑤
120 Volts Delta (12 Leads)④****1800 RPM
NEMA Class H Insulation
40°C Ambient****MAGNAPLUS****Standard Models, SE350 AVR with Shunt (Non-PMG) Excitation**

Base Model	Net Wt. (lbs.)	Bolt-on PMG Option Avail.	kW Rating @ Designated NEMA Rise										List Price
			0.8 Power Factor Lagging					1.0 Power Factor					
			Continuous			Standby		Continuous			Standby		
			NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
281PSL1500	205	No	3.2	3.6	3.8	3.8	4	5	5.5	5.7	5.8	6	
281PSL1501	210	No	4	4.5	4.8	4.8	5	6.2	6.8	7.1	7.2	7.5	
281CSL1502	220	No	6.2	6.8	7.5	7.5	7.7	8	8.5	9.5	9.5	10	
282PSL1703	240	Ⓢ	7	7.8	8.1	8.2	8.5	9.2	10	11	11	12	
282CSL1504	250	No	8.7	9.5	10	10	11	11	12	13	13	14	
282CSL1505	275	No	11	12	13	13	14	14	16	17	17	18	
283CSL1506	310	No	13.5	15	16	16	17	17.5	19	20	20	22	
283CSL1507	350	No	15.5	17	18	18	20	20	22	25	25	26	
284CSL1508	405	No	20	22	24	25	26	25	29	31	31	33	
284CSL1542	420	No	20	23	24	24	27	26	29	32	32	33	
361CSL1600①	518	Yes	25	28	30	30	32	31	36	38	39	40	
361CSL1601①	569	Yes	30	33	35	35	37	38	42	45	45	48	
361CSL1602①	620	Yes	35	40	42	42	45	45	51	55	55	60	
362CSL1604①	706	Yes	41	47	50	51	54	53	61	66	66	71	
362CSL1606①	796	Yes	49	55	59	60	64	66	76	78	79	85	
363CSL1607①	943	Yes	60	66	72	73	78	80	90	95	97	100	
431CSL6202①	1220	Yes	77	90	95	96	100	96	115	120	121	125	
431CSL6204①	1310	Yes	85	100	106	107	110	106	125	133	135	140	
431CSL6206①	1415	Yes	105	120	130	132	135	131	150	165	166	175	
431CSL6208①	1455	Yes	105	120	130	132	136	131	150	165	166	175	
432PSL6210	1685	Yes	125	147	158	161	165	156	185	200	201	206	
432PSL6212	1760	Yes	125	147	158	161	165	156	185	200	201	206	
433PSL6216	2235	Yes	150	175	190	193	200	190	220	240	241	250	
433PSL6220	2245	Yes	150	175	190	193	200	190	220	240	241	250	

MAGNAPLUS**Alternate Models③, SE350 AVR with Shunt (Non-PMG) Excitation**

281PSL1502	220	No	5.2	6	6.2	6.3	6.6	7	8	8.5	8.6	9	
282PSL1704	270	②	8	10	10.5	10.5	11	10.5	12.5	14	14	15	
282PSL1705	295	②	11	12.5	13.5	13.5	14	14	16	17.5	17.5	18.5	
283PSL1706	336	②	13	15	16	16	17	17	20	21	21	23	
283PSL1707	366	②	15	17	18	18	20	19	22	25	25	26	
284PSL1708	405	Yes	19	21	23	23	25	25	28	30	30	32	
284PSL1742	436	Yes	20	23	25	25	27	25	30	32	32	35	
285PSL1700	480	Yes	21	25	28	28	30	30	35	37	37	40	
286PSL1701	600	Yes	24	28	32	32	34	32	38	42	42	45	
287PSL1702	670	Yes	25	30	33	33	34	36	42	45	45	50	

MAGNAMAX^{DVR}**DVR®2000E AVR with PMG Excitation**

Base Model	Net Wt. (lbs.)	kW Rating @ Designated NEMA Rise										List Price
		0.8 Power Factor Lagging					1.0 Power Factor					
		Continuous			Standby		Continuous			Standby		
		NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
431RSL4005	1280	72	82	87	88	91	89	103	109	110	114	
431RSL4007	1370	82	97	103	103	109	103	121	129	129	136	
432RSL4009	1550	103	122	129	129	136	129	152	161	161	169	
432RSL4011	1570	106	122	127	127	138	132	152	159	159	172	
432RSL4013	1600	98	116	123	123	129	123	145	154	154	162	
432RSL4015	1810	115	138	143	147	150	144	172	178	184	188	
432RSL4017	1830	121	145	155	158	164	151	182	194	198	205	
433RSL4019	2340	146	168	180	180	190	183	210	225	225	238	
433RSL4021	2365	151	174	185	185	200	189	217	231	231	251	
572RSL4025	2730	167	198	209	209	222	209	248	261	261	278	
572RSL4027	2840	194	220	227	227	246	242	275	283	283	308	
572RSL4029	3050	196	235	246	246	268	245	294	308	308	336	
572RSL4031	3110	213	253	264	264	284	267	316	330	330	355	
573RSL4033	3400	251	299	308	308	337	314	374	385	385	421	
573RSL4035	3620	257	312	330	330	356	322	391	413	413	446	
574RSL4037	4080	295	352	363	363	396	369	440	454	454	495	

① 361 to 431 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

④ For 120 volt only service, use an AVC63-4A or a VR63-4C voltage regulator to replace the standard SE350 regulator.

See Modification Section for price adder.

⑤ 240/120 volts can be obtained by connecting in either a Low Zigzag or Double Delta; and 480/240 volts can be obtained by connecting in High Zigzag connections. (See page 52 for connection diagrams)

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
40°C Ambient
Shunt (Non-PMG) Excitation
SE350 AVR®

120 or 240/120 Volts
(4 Leads)

**4-Pole,
Dedicated
Single Phase**

**60
Hertz**

MAGNAPLUS

Standard Models

Base Model	Net Wt. (lbs.)	Bolt-on PMG Option Avail.	kW Rating @ Designated NEMA Rise										List Price
			0.8 Power Factor Lagging					1.0 Power Factor					
			Continuous			Standby		Continuous			Standby		
			NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
281PSL1511	200	No	3.6	4	4.2	4.2	4.4	5.4	6	6.5	6.5	6.8	
281PSL1512	206	No	4.2	4.8	5.1	5.1	5.3	7	7.7	8.2	8.2	8.5	
281CSL1513	216	No	6.5	7.5	8	8	8.5	10	12	12.5	12.5	13.5	
282PSL1514	236	Ⓢ	7	7.7	8.4	8.5	9	10.5	12	13	13	13.5	
282CSL1515	250	No	10	11	12	12	13	16	18	19	19	20	
282PSL1716	288	Ⓢ	12	14	15	15	16	18	20	22	22	25	
283CSL1517	349	No	16.5	19	21	21	22	26	30	32	32	35	
284CSL1518	398	No	14	16	18	18	20	24	30	32	32	35	
284CSL1550	447	No	21	24	26	27	28	30	37	40	41	42	
361PSL1611	513	Yes	22	26	29	30	32	35	37	40	40	45	
361PSL1612	578	Yes	28	33	36	36	40	40	45	50	50	55	
361CSL1613Ⓢ	626	Yes	38	43	47	47	50	50	55	60	60	65	
362CSL1615Ⓢ	779	Yes	48	54	59	60	65	65	70	75	75	80	
363CSL1617Ⓢ	929	Yes	50	58	66	66	70	75	90	100	100	105	
431PSL6222	1070	Yes	60	68	73	73	78	100	110	115	115	125	
431PSL6224	1280	Yes	80	90	100	100	110	130	145	155	155	165	
431PSL6226	1600	Yes	85	100	110	110	115	135	155	175	175	185	
432PSL6228	1720	Yes	125	145	155	155	170	170	195	210	210	225	

MAGNAPLUS

Alternate Models③

281PSL1513	216	No	6	6.6	7	7	7.5	9	10	10.5	10.5	11	
282PSL1715	265	②	10	11	12	12	12.5	15	17	18	18	20	
283PSL1717	331	②	15	17	18.5	18.5	20	22	25	27	27	30	
283PSL1718	360	②	17	20	22	22	23	26	30	32	32	35	
284PSL1750	430	Yes	23	26	27	27	30	34	38	41	41	45	
285PSL1711	470	Yes	24	28	32	32	34	36	40	45	45	50	
286PSL1712	590	Yes	30	33	36	36	38	45	50	52	52	55	
287PSL1713	660	Yes	30	35	40	40	43	47	55	60	60	64	

Pancake

Standard Models④⑤

Base Model	Net Wt. (lbs.)	Bolt-on PMG Option Avail.	kW Rating @ Designated NEMA Rise										List Price
			0.8 Power Factor Lagging					1.0 Power Factor					
			Continuous			Standby		Continuous			Standby		
			NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	NEMA B 80°C R/R	NEMA F 105°C R/R	NEMA H 125°C R/R	NEMA F 130°C R/R	NEMA H 150°C R/R	
331CSA/B3018	125	No	4	4.5	N/A	5	N/A	7.5	8	N/A	8.5	N/A	
332CSA/B3020	143	No	6	6.5	N/A	7	N/A	10	10.5	N/A	11	N/A	
333CSA/B3024	192	No	9	10	N/A	10	N/A	12.5	15	N/A	16.5	N/A	
334CSA/B3027	214	No	10	11.5	N/A	13	N/A	15	17.5	N/A	19	N/A	
334CSA/B3028	214	No	11.5	13	N/A	14.5	N/A	17	20	N/A	22.5	N/A	

Pancake

Alternate Models④⑤

331RSA/B3002	120	No	5	5.5	N/A	6	N/A	8.3	9	N/A	9.2	N/A	
332RSA/B3004	130	No	6	6.5	N/A	7	N/A	10	10.5	N/A	11	N/A	
333RSA/B3006	180	No	8	9	N/A	9.5	N/A	12	13.5	N/A	14.5	N/A	
333RSA/B3008	190	No	9	10	N/A	10	N/A	12.5	15	N/A	16.5	N/A	
334RSA/B3010	210	No	12	13	13	13.5	14	16.5	18.5	20	20	21	
335RSA/B3012	225	No	15.5	16.5	N/A	17	N/A	20	23	N/A	25	N/A	
335RSA/B3014	280	No	16.5	19	N/A	20	N/A	22	25	N/A	27	N/A	
336RSA/B3016	320	No	21	23	N/A	24	N/A	28	32	N/A	35	N/A	

① 361 to 431 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

④ Pancake generators are designed for space-critical applications.

⑤ RSA and CSA models are SAE 5, RSB and CSB models are SAE 4.

⑥ For 120 volt only service, use an AVC63-4A or a VR63-4C voltage regulator to replace the standard SE350 regulator. See Modification Section for price adder.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****4-Pole,
Medium Voltage,
Three Phase****2400Y/1386 Volts
(6 Leads)^{①②}
1386 Volts Delta**1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation**MAGNA^{MAX}DVR[®]**

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous						Standby				List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
			kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
573FSM4304	2890	6	394	315	500	400	519	415	519	415	563	450	
573FSM4306	3030	6	438	350	563	450	625	500	625	500	663	530	
574FSM4308	3530	6	563	450	688	550	719	575	750	600	750	600	
574FSM4310	4050	6	656	525	825	660	906	725	919	735	938	750	
741FSM4314③	5300	6	875	700	1094	875	1113	890	1125	900	1125	900	
742FSM4316③	6100	6	1156	925	1363	1090	1469	1175	1500	1200	1500	1200	
742FSM4318③	6900	6	1344	1075	1588	1270	1700	1360	1750	1400	1750	1400	
743FSM4320③	7500	6	1475	1180	1763	1410	1838	1470	1938	1550	1938	1550	
743FSM4322③	8200	6	1713	1370	2038	1630	2225	1780	2250	1800	2250	1800	
744FSM4324③	9300	6	1875	1500	2313	1850	2500	2000	2500	2000	2500	2000	

MAGNA^{POWER}®^④

1020FDM5320 ^③	14500	6	2188	1750	2500	2000	2625	2100	2625	2100	2625	2100	
1020FDM5322 ^③	15900	6	2500	2000	2875	2300	3000	2400	3000	2400	3000	2400	
1020FDM5324 ^③	16800	6	2813	2250	3213	2570	3375	2700	3375	2700	3375	2700	
1020FDM5326 ^③	17900	6	3125	2500	3575	2860	3750	3000	3750	3000	3750	3000	

**60
Hertz****4-Pole,
Medium Voltage,
Three Phase****3300Y/1905 Volts
(6 Leads)^{①②}
1905 Volts Delta**1800 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation**MAGNA^{MAX}DVR[®]**

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous						Standby				List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
			kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
573FSM4326	2890	6	394	315	500	400	519	415	519	415	563	450	
573FSM4328	3030	6	438	350	563	450	625	500	625	500	663	530	
574FSM4330	3530	6	581	465	750	600	781	625	781	625	844	675	
741FSM4334③	5300	6	875	700	1063	850	1125	900	1125	900	1156	925	
742FSM4336③	6100	6	1188	950	1400	1120	1500	1200	1500	1200	1600	1280	
742FSM4338③	6900	6	1375	1100	1638	1310	1725	1380	1750	1400	1750	1400	
743FSM4340③	7500	6	1563	1250	1838	1470	1938	1550	1938	1550	1963	1570	
743FSM4342③	8200	6	1713	1370	2031	1625	2250	1800	2250	1800	2250	1800	
744FSM4344③	9300	6	1875	1500	2313	1850	2500	2000	2500	2000	2500	2000	

MAGNA^{POWER}®^④

1020FDM5330 ^③	14500	6	2188	1750	2500	2000	2625	2100	2625	2100	2625	2100	
1020FDM5332 ^③	15900	6	2500	2000	2875	2300	3000	2400	3000	2400	3000	2400	
1020FDM5334 ^③	16800	6	2813	2250	3213	2570	3375	2700	3375	2700	3375	2700	
1020FDM5336 ^③	17900	6	3125	2500	3575	2860	3750	3000	3750	3000	3750	3000	

① Medium voltage sensing potential transformers (P/Ts) are not included. For three phase sensing, 2 P/Ts are required.
See Modification Section for price adder.

② All medium voltage generators incorporate form wound coils and VPI insulation systems.

③ All 740 and 1000 frame generators on this page have 100 ohm platinum winding RTDs as standard equipment.

④ All 1000 frame generators have 4 bus bars, with the capability of differential protection.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

**4160Y/2402 Volts
(6 Leads)①②
2402 Volts Delta**

**4-Pole,
Medium Voltage,
Three Phase**

**60
Hertz**

MAGNA MAX^{DVR}

NEMA Class H Insulation

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous						Standby				List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
			kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
573FSM4352	2890	6	394	315	500	400	519	415	519	415	575	460	
573FSM4354	3030	6	438	350	563	450	625	500	625	500	663	530	
574FSM4356	3530	6	581	465	750	600	781	625	781	625	875	700	
574FSM4358	4050	6	688	550	888	710	950	760	950	760	1050	840	
741FSM4360③	5300	6	913	730	1125	900	1156	925	1156	925	1163	930	
742FSM4364③	6100	6	1156	925	1400	1120	1500	1200	1500	1200	1500	1200	
742FSM4366③	6900	6	1400	1120	1700	1360	1813	1450	1813	1450	1813	1450	
743FSM4368③	7500	6	1550	1240	1900	1520	2000	1600	2000	1600	2013	1610	
743FSM4370③	8200	6	1713	1370	2100	1680	2250	1800	2250	1800	2250	1800	
744FSM4374③	9300	6	1906	1525	2344	1875	2563	2050	2563	2050	2563	2050	
744FSM4376③	9340	6	2250	1800	2688	2150	2900	2320	2900	2320	2900	2320	

MAGNA POWER[®]

NEMA Class H Insulation

1020FDM1210③	15900	6	2500	2000	2813	2250	3125	2500	3125	2500	3125	2500	
1020FDM1211③	16800	6	2813	2250	3125	2500	3500	2800	3500	2800	3500	2800	
1030FDM1204③	17900	6	3125	2500	3500	2800	3750	3000	3750	3000	3750	3000	

1800 RPM
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

**6600Y/3811 Volts
(6 Leads)①②
3811 Volts Delta**

**4-Pole,
Medium Voltage,
Three Phase**

**60
Hertz**

MAGNA MAX^{DVR}

NEMA Class H Insulation NOTE: 570 & 740 Frame units **MUST** employ solidly grounded neutral.

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous						Standby				List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
			kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
574FSM4380	3650	6	581	465	688	550	738	590	750	600	781	625	
741FSM4382③	5600	6	1094	875	1250	1000	1300	1040	1313	1050	1350	1080	
742FSM4384③	6100	6	1250	1000	1375	1100	1500	1200	1500	1200	1563	1250	
742FSM4386③	6500	6	1281	1025	1500	1200	1613	1290	1625	1300	1688	1350	
742FSM4388③	6900	6	1375	1100	1625	1300	1750	1400	1750	1400	1813	1450	
743FSM4390③	7500	6	1613	1290	1825	1460	1938	1550	2000	1600	2000	1600	
743FSM4392③	8200	6	1713	1370	2031	1625	2250	1800	2250	1800	2250	1800	
744FSM4394③	9300	6	1875	1500	2313	1850	2500	2000	2500	2000	2500	2000	

MAGNA POWER[®]

NEMA Class F Insulation

1020FDM5360③	15900	6	2188	1750	2500	2000	N.A.	N.A.	2625	2100	N.A.	N.A.	
1030FDM5362③	17900	6	2500	2000	2875	2300	N.A.	N.A.	3125	2500	N.A.	N.A.	
1030FDM5364③	19300	6	2750	2200	3125	2500	N.A.	N.A.	3500	2800	N.A.	N.A.	

① Medium voltage sensing potential transformers (P/Ts) are not included. For three phase sensing, 2 P/Ts are required. See Modification Section for price adder.

② All medium voltage generators incorporate form wound coils and VPI insulation systems.

③ All 740 and 1000 frame generators on this page have 100 ohm platinum winding RTDs as standard equipment.

④ All 1000 frame generators have 4 bus bars, with the capability of differential protection.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**50
Hertz****4-Pole,
Medium Voltage,
Three Phase****3300Y/1905 Volts
(6 Leads)^{①②}
1905 Volts Delta**1500 RPM
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation**MAGNA^{MAX}DVR[®]**

NEMA Class H Insulation

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous						Standby				List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
			kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
573FSM4352	2890	6	350	280	425	340	456	365	469	375	488	390	
573FSM4354	3030	6	388	310	475	380	519	415	531	425	550	440	
574FSM4356	3530	6	500	400	625	500	663	530	681	545	706	565	
574FSM4358	4050	6	588	470	731	585	788	630	806	645	838	670	
741FSM4360③	5300	6	769	615	913	730	981	785	981	785	1038	830	
742FSM4364③	6100	6	963	770	1156	925	1250	1000	1250	1000	1325	1060	
742FSM4366③	6900	6	1163	930	1400	1120	1500	1200	1500	1200	1600	1280	
743FSM4368③	7500	6	1300	1040	1550	1240	1675	1340	1675	1340	1788	1430	
743FSM4370③	8200	6	1425	1140	1750	1400	1900	1520	1900	1520	2050	1640	
744FSM4374③	9300	6	1525	1220	1813	1450	2000	1600	2000	1600	2188	1750	
744FSM4376③	9340	6	1500	1200	2050	1640	2275	1820	2338	1870	2463	1970	

MAGNA^{POWER}[®]

NEMA Class H Insulation

1020FDM1210 ^③	15900	6	2000	1600	2250	1800	2500	2000	2500	2000	2500	2000	
1020FDM1211 ^③	16800	6	2250	1800	2500	2000	2800	2240	2800	2240	2800	2240	
1030FDM1204 ^③	17900	6	2500	2000	2800	2240	3000	2400	3000	2400	3000	2400	
1030FDM1230 ^③	19000	6	2800	2240	3000	2400	3100	2480	3100	2480	3100	2480	

**50
Hertz****4-Pole,
Medium Voltage,
Three Phase****6600Y/3811 Volts
(6 Leads)^{①②}
3811 Volts Delta**1500 RPM
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation**MAGNA^{MAX}DVR[®]**

NEMA Class H Insulation

NOTE: 570 & 740 Frame units **MUST** employ solidly grounded neutral.

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous						Standby				List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
			kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
742FSM4460 ^③	6100	6	963	770	1156	925	1250	1000	1250	1000	1325	1060	
742FSM4462 ^③	6900	6	1163	930	1400	1120	1500	1200	1500	1200	1600	1280	
743FSM4464 ^③	7500	6	1300	1040	1550	1240	1675	1340	1675	1340	1788	1430	
743FSM4466 ^③	8200	6	1425	1140	1750	1400	1900	1520	1900	1520	2050	1640	
744FSM4470 ^③	9300	6	1525	1220	1788	1430	2000	1600	2000	1600	2125	1700	

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NEMA Class F Insulation

1020FDM5440 ^③	15800	6	1750	1400	2000	1600	N.A.	N.A.	2100	1680	N.A.	N.A.	
1030FDM5442 ^③	16500	6	2000	1600	2300	1840	N.A.	N.A.	2500	2000	N.A.	N.A.	
1030FDM1324 ^③	17900	6	2250	1800	2500	2000	N.A.	N.A.	2800	2240	N.A.	N.A.	
1030FDM1316 ^③	19300	6	2500	2000	2800	2240	N.A.	N.A.	3000	2400	N.A.	N.A.	

① Medium voltage sensing potential transformers (P/Ts) are not included. For three phase sensing, 2 P/Ts are required.
See Modification Section for price adder.

② All medium voltage generators incorporate form wound coils and VPI insulation systems.

③ All 740 and 1000 frame generators on this page have 100 ohm platinum winding RTDs as standard equipment.

④ All 1000 frame generators have 4 bus bars, with the capability of differential protection.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
NEMA Class F Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

**4-Pole,
High Voltage,
Three Phase**

**60
Hertz**

MAGNAPOWER

12470Y/7200 Volts or 7200 Volts Delta (6 Leads)

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous				Standby		List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA F 130°C R/R		
			kVA	kW	kVA	kW	kVA	kW	
1020FDH5580	15200	6	1969	1575	2281	1825	2438	1950	
1020FDH5582	16000	6	2219	1775	2581	2065	2750	2200	
1020FDH5584	16500	6	2313	1850	2688	2150	2813	2250	
1030FDH1414	17200	6	2500	2000	2813	2250	3125	2500	
1030FDH1428	18300	6	2813	2250	3125	2500	3500	2800	
1030FDH1429	20000	6	3125	2500	3500	2800	3750	3000	

13200Y/7621 Volts or 7621 Volts Delta (6 Leads)

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous				Standby		List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA F 130°C R/R		
			kVA	kW	kVA	kW	kVA	kW	
1020FDH5580	15200	6	1875	1500	2188	1750	2344	1875	
1020FDH5582	16000	6	2188	1750	2531	2025	2688	2150	
1020FDH5584	16500	6	2250	1800	2625	2100	2813	2250	
1030FDH1414	17200	6	2500	2000	2813	2250	3125	2500	
1030FDH1428	18300	6	2813	2250	3125	2500	3500	2800	
1030FDH1429	20000	6	3125	2500	3500	2800	3750	3000	

13800Y/7967 Volts or 7967 Volts Delta (6 Leads)

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous				Standby		List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA F 130°C R/R		
			kVA	kW	kVA	kW	kVA	kW	
1020FDH5580	15200	6	1781	1425	2125	1700	2313	1850	
1020FDH5582	16000	6	2125	1700	2500	2000	2563	2050	
1020FDH5584	16500	6	2188	1750	2500	2000	2625	2100	
1030FDH1414	17200	6	2500	2000	2813	2250	3125	2500	
1030FDH1428	18300	6	2813	2250	3125	2500	3500	2800	
1030FDH1429	20000	6	3125	2500	3500	2800	3750	3000	

1500 RPM
NEMA Class F Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

**4-Pole,
High Voltage,
Three Phase**

**50
Hertz**

MAGNAPOWER

11000Y/6351 Volts or 6351 Volts Delta (6 Leads)

Base Model	Net Wt. (lbs.)	No. of Leads	Continuous				Standby		List Price
			NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA F 130°C R/R		
			kVA	kW	kVA	kW	kVA	kW	
1020FDH5580	15200	6	1500	1200	1750	1400	1875	1500	
1020FDH5582	16000	6	1750	1400	2025	1620	2150	1720	
1020FDH5584	16500	6	1800	1440	2100	1680	2250	1800	
1030FDH1439	17200	6	2000	1600	2250	1800	2500	2000	
1030FDH1452	18300	6	2250	1800	2500	2000	2800	2240	
1030FDH1447	20000	6	2500	2000	2800	2240	3000	2400	

- High voltage sensing potential transformers (P/Ts) are not included.
 - All 1000 frame generators on this page have 100 ohm platinum winding RTDs as standard equipment.
 - All high voltage generators incorporate form wound coils and VPI insulation systems.
 - All 1000 frame generators have 4 bus bars, with the capability of differential protection.
- Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**50
Hertz****4-Pole,
Three Phase****208Y or 415Y Volts (12 Leads)
240 Volts Delta (12 Leads)**1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail.	NEMA F Cont. 105°C R/R		NEMA H Cont. 125°C R/R		NEMA H Stby. 150°C R/R		List Price
					kVA	kW	kVA	kW	kVA	kW	
281PSL1500	205	12	208Y/415Y	No	5.6	4.5	6.3	5	6.6	5.3	
281PSL1501	210	12	208Y/415Y	No	6.8	5.4	7.5	6	8	6.4	
281CSL1502	220	12	208Y/415Y	No	12	9.6	12.5	10	13.1	10.5	
282PSL1703	240	12	208Y/415Y	②	12	9.6	13.1	10.5	14.4	11.5	
282CSL1504	250	12	208Y/415Y	No	16.3	13	17.5	14	18.8	15	
282CSL1505	275	12	208Y/415Y	No	21.3	17	23.1	18.5	25	20	
283CSL1506	310	12	208Y/415Y	No	22	18	25	20	27	22	
283CSL1507	350	12	208Y/415Y	No	27	22	30	24	32	26	
284CSL1508	405	12	208Y/415Y	No	31	25	35	28	37	30	
284CSL1542	420	12	208Y/415Y	No	36	29	40	32	42	34	
361CSL1600①	518	12	208Y/415Y	Yes	45	36	50	40	53	42	
361CSL1601①	569	12	208Y/415Y	Yes	50	40	56	45	60	48	
361CSL1602①	620	12	208Y/415Y	Yes	60	48	65	52	73	58	
362CSL1604①	706	12	208Y/415Y	Yes	81	65	90	72	96	77	
362CSL1606①	796	12	208Y/415Y	Yes	90	72	100	80	110	88	
363CSL1607①	943	12	208Y/415Y	Yes	113	90	130	104	133	106	
431CSL6202①	1220	12	208Y/415Y	Yes	140	112	150	120	155	124	
431CSL6204①	1310	12	208Y/415Y	Yes	165	132	175	140	183	146	
431CSL6206①	1415	12	208Y/415Y	Yes	185	148	200	160	211	169	
431CSL6208①	1455	12	208Y/415Y	Yes	206	165	225	180	235	188	
432PSL6210	1685	12	208Y/415Y	Yes	240	192	260	208	275	220	
432PSL6212	1760	12	208Y/415Y	Yes	270	216	300	240	310	248	
433PSL6216	2235	12	208Y/415Y	Yes	320	256	350	280	375	300	
433PSL6220	2245	12	208Y/415Y	Yes	355	284	400	320	410	328	

MAGNAPLUS Alternate Models③

281PSL1502	220	12	208Y/415Y	No	10	8	10.8	8.6	11.4	9.1	
282PSL1704	270	12	208Y/415Y	②	12.5	10	13.8	11	15	12	
282PSL1705	295	12	208Y/415Y	②	16.3	13	18.8	15	20	16	
283PSL1706	336	12	208Y/415Y	②	22	18	25	20	26	21	
283PSL1707	366	12	208Y/415Y	②	26	21	30	24	32	26	
284PSL1708	405	12	208Y/415Y	Yes	28	23	32	26	35	28	
284PSL1742	436	12	208Y/415Y	Yes	33	27	37	30	40	32	
285PSL1700	480	12	208Y/415Y	Yes	37	30	42	34	45	36	
286PSL1701	600	12	208Y/415Y	Yes	50	40	55	44	58	47	
287PSL1702	670	12	208Y/415Y	Yes	53	43	60	48	62	50	

① 361 to 433 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

208Y or 415Y Volts (10-12 Leads)
415Y Volts (4 Leads)
240 Volts Delta (12 Leads)

**4-Pole,
Three Phase**

**50
Hertz**

MAGNA MAX^{DVR}

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	NEMA F Cont. 105°C R/R		NEMA H Cont. 125°C R/R		NEMA H Stby. 150°C R/R		List Price
				kVA	kW	kVA	kW	kVA	kW	
431RSL4005	1280	12	208Y/415Y	136	109	145	116	151	121	
431RSL4007	1370	12	208Y/415Y	155	124	164	131	173	138	
432RSL4009	1550	12	208Y/415Y	189	151	203	162	214	171	
432RSL4011	1570	12	208Y/415Y	208	166	221	177	234	187	
432RSL4013	1600	12	208Y/415Y	231	185	244	195	255	204	
432RSL4015	1810	12	208Y/415Y	253	202	275	220	290	232	
432RSL4017	1830	12	208Y/415Y	258	206	278	222	294	235	
433RSL4019	2340	12	208Y/415Y	338	270	363	290	394	315	
433RSL4021	2365	12	208Y/415Y	366	293	394	315	413	330	
572RSL4024	2730	10	208Y/415Y	413	330	444	355	475	380	
572RSL4025	2730	12	208Y/415Y	413	330	444	355	475	380	
572RSL4027	2840	12	208Y/415Y	469	375	500	400	531	425	
572RSL4028	3050	10	208Y/415Y	500	400	531	425	563	450	
572RSL4029	3050	12	208Y/415Y	500	400	531	425	563	450	
572RSL4030	3110	10	208Y/415Y	550	440	581	465	625	500	
572RSL4031	3110	12	208Y/415Y	550	440	581	465	625	500	
573RSL4032	3400	10	208Y/415Y	650	520	700	560	738	590	
573RSL4033	3400	12	208Y/415Y	650	520	700	560	738	590	
573RSL4034	3620	10	208Y/415Y	669	535	713	570	756	605	
573RSL4035	3620	12	208Y/415Y	669	535	713	570	756	605	
574RSL4036	4080	10	208Y/415Y	731	585	788	630	838	670	
574RSL4037	4080	12	208Y/415Y	731	585	788	630	838	670	
741RSL4045	5490	12	208Y/415Y	969	775	1038	830	1106	885	
742RSL4049	6300	12	208Y/415Y	1131	905	1219	975	1300	1040	
Single Voltage Only										
574RSL4038	4240	4	415Y Only	825	660	888	710	938	750	
575RSL4044	5000	4 Bars	415Y Only	963	770	1013	810	1056	845	
740RSL4046	5200	4 Bars	415Y Only	1106	885	1188	950	1275	1020	
742RSL4048	6300	4 Bars	415Y Only	1131	905	1219	975	1300	1040	
742RSL4050	7230	4 Bars	415Y Only	1438	1150	1538	1230	1638	1310	
743RSL4052	7800	4 Bars	415Y Only	1500	1200	1600	1280	1725	1380	
744RSL4054	8600	4 Bars	415Y Only	1725	1380	1875	1500	2013	1610	
744RSL4056	9740	4 Bars	415Y Only	1963	1570	2125	1700	2275	1820	
744RSL4058	9740	4 Bars	415Y Only	2038	1630	2225	1780	2400	1920	
Form Wound Coil Designs										
744FSL4060	7300	4 Bars	415Y Only	1425	1140	1550	1240	1650	1320	
744FSL4062	8300	4 Bars	415Y Only	1750	1400	1900	1520	2025	1620	

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**50
Hertz****4-Pole,
Three Phase****190Y or 380Y Volts (12 Leads)
220 or 110 Volts Delta (12 Leads)**1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	PMG Option Avail.	NEMA F Cont. 105°C R/R		NEMA H Cont 125°C R/R		NEMA H Stby. 150°C R/R		List Price
					kVA	kW	kVA	kW	kVA	kW	
281PSL1500	205	12	190Y/380Y	No	6.3	5	6.6	5.3	7.3	5.8	
281PSL1501	210	12	190Y/380Y	No	7.5	6	8	6.4	8.8	7	
281CSL1502	220	12	190Y/380Y	No	11.3	9	12	9.6	12.5	10	
282PSL1503	240	12	190Y/380Y	②	13.8	11	13.8	11	15	12	
282CSL1504	250	12	190Y/380Y	No	16.3	13	17.5	14	18.8	15	
282CSL1505	275	12	190Y/380Y	No	22.5	18	25	20	26.3	21	
283CSL1506	310	12	190Y/380Y	No	25	20	26	21	28	23	
283CSL1507	350	12	190Y/380Y	No	28	23	31	25	33	27	
284CSL1508	405	12	190Y/380Y	No	36	29	40	32	42	34	
284CSL1542	420	12	190Y/380Y	No	37	30	41	33	43	35	
361CSL1600①	518	12	190Y/380Y	Yes	44	35	45	36	50	40	
361CSL1601①	569	12	190Y/380Y	Yes	54	43	58	46	63	50	
361CSL1602①	620	12	190Y/380Y	Yes	65	52	70	56	75	60	
362CSL1604①	706	12	190Y/380Y	Yes	80	64	85	68	91	73	
362CSL1606①	796	12	190Y/380Y	Yes	94	75	100	80	110	88	
363CSL1607①	943	12	190Y/380Y	Yes	113	90	130	104	133	106	
431CSL6202①	1220	12	190Y/380Y	Yes	143	114	151	121	160	128	
431CSL6204①	1310	12	190Y/380Y	Yes	166	133	176	141	185	148	
431CSL6206①	1415	12	190Y/380Y	Yes	200	160	211	169	225	180	
431CSL6208①	1455	12	190Y/380Y	Yes	210	168	225	180	235	188	
432PSL6210	1685	12	190Y/380Y	Yes	256	205	275	220	290	232	
432PSL6212	1760	12	190Y/380Y	Yes	270	216	300	240	303	242	
433PSL6216	2235	12	190Y/380Y	Yes	345	276	370	296	390	312	
433PSL6220	2245	12	190Y/380Y	Yes	375	300	400	320	423	338	

MAGNAPLUS Alternate Models③

281PSL1502	220	12	190Y/380Y	No	10.6	8.5	11.3	9	12	9.6	
282PSL1704	270	12	190Y/380Y	②	14.4	11.5	16.3	13	17.5	14	
282PSL1705	295	12	190Y/380Y	②	18.8	15	21.3	17	22.5	18	
283PSL1706	336	12	190Y/380Y	②	25	20	27	22	28	23	
283PSL1707	366	12	190Y/380Y	②	26	21	30	24	32	26	
284PSL1708	405	12	190Y/380Y	Yes	32	26	35	28	38	31	
284PSL1742	436	12	190Y/380Y	Yes	35	28	40	32	42	34	
285PSL1700	480	12	190Y/380Y	Yes	41	33	46	37	50	40	
286PSL1701	600	12	190Y/380Y	Yes	50	40	55	44	58	47	
287PSL1702	670	12	190Y/380Y	Yes	53	43	60	48	62	50	

① 361 to 433 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

190Y or 380Y Volts (10-12 Leads)
380Y Volts (4-6 Leads)
220 or 110 Volts Delta (12 Leads)

**4-Pole,
Three Phase**

**50
Hertz**

MAGNA^{MAX}DVR®

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	NEMA F Cont. 105°C R/R		NEMA H Cont. 125°C R/R		NEMA H Stby. 150°C R/R		List Price
				kVA	kW	kVA	kW	kVA	kW	
431RSL4005	1280	12	190Y/380Y	141	113	149	119	159	127	
431RSL4007	1370	12	190Y/380Y	159	127	168	134	180	144	
432RSL4009	1550	12	190Y/380Y	208	166	219	175	224	179	
432RSL4011	1570	12	190Y/380Y	218	174	231	185	243	194	
432RSL4013	1600	12	190Y/380Y	233	186	244	195	254	203	
432RSL4015	1810	12	190Y/380Y	276	221	294	235	300	240	
432RSL4017	1830	12	190Y/380Y	281	225	298	238	314	251	
433RSL4019	2340	12	190Y/380Y	356	285	375	300	406	325	
433RSL4021	2365	12	190Y/380Y	369	295	394	315	425	340	
572RSL4024	2730	10	190Y/380Y	469	375	500	400	506	405	
572RSL4025	2730	12	190Y/380Y	469	375	500	400	506	405	
572RSL4027	2840	12	190Y/380Y	475	380	500	400	544	435	
572RSL4028	3050	10	190Y/380Y	550	440	588	470	600	480	
572RSL4029	3050	12	190Y/380Y	550	440	588	470	600	480	
572RSL4030	3110	10	190Y/380Y	563	450	600	480	644	515	
572RSL4031	3110	12	190Y/380Y	563	450	600	480	644	515	
573RSL4032	3400	10	190Y/380Y	700	560	750	600	775	620	
573RSL4033	3400	12	190Y/380Y	700	560	750	600	775	620	
573RSL4034	3620	10	190Y/380Y	738	590	781	625	819	655	
573RSL4035	3620	12	190Y/380Y	738	590	781	625	819	655	
574RSL4036	4080	10	190Y/380Y	769	615	819	655	888	710	
574RSL4037	4080	12	190Y/380Y	769	615	819	655	888	710	
741RSL4045	5490	12	190Y/380Y	1000	800	1056	845	1144	915	
742RSL4049	6300	12	190Y/380Y	1181	945	1250	1000	1338	1070	
Single Voltage Only										
574RSL4038	4240	4	380Y Only	831	665	888	710	956	765	
575RSL4044	5000	4 Bars	380Y Only	963	770	1031	825	1138	910	
740RSL4046	5200	4 Bars	380Y Only	1125	900	1200	960	1300	1040	
742RSL4048	6300	4 Bars	380Y Only	1181	945	1250	1000	1338	1070	
742RSL4050	7230	4 Bars	380Y Only	1363	1090	1463	1170	1563	1250	
743RSL4052	7800	4 Bars	380Y Only	1650	1320	1775	1420	1850	1480	
744RSL4054	8600	4 Bars	380Y Only	1750	1400	1875	1500	1988	1590	
744RSL4056	9740	4 Bars	380Y Only	2063	1650	2200	1760	2400	1920	
744RSL4058	9740	4 Bars	380Y Only	2013	1610	2150	1720	2337	1870	
Form Wound Coil Designs										
744FSL4060	7300	4 Bars	380Y Only	1450	1160	1563	1250	1650	1320	
744FSL4062	8300	4 Bars	380Y Only	1725	1380	1875	1500	1963	1570	

MAGNA^{POWER}® ①②

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Continuous						Standby				List Price
				NEMA B 80°C R/R		NEMA F 105°C R/R		NEMA H 125°C R/R		NEMA F 130°C R/R		NEMA H 150°C R/R		
				kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	
1020FDL1002	15000	6	380Y Only	1750	1400	2000	1600	2250	1800	2250	1800	2250	1800	
1020FDL1003	16100	6	380Y Only	2000	1600	2250	1800	2500	2000	2500	2000	2500	2000	
1020FDL1004	17200	6	380Y Only	2250	1800	2500	2000	2800	2240	2800	2240	2800	2240	
1030FDL1005	19300	6	380Y Only	2500	2000	2800	2240	3000	2400	3000	2400	3000	2400	
1030FDL1006	22500	6	380Y Only	2625	2100	3000	2400	3100	2480	3100	2480	3100	2480	

① All 1000 frame generators have 4 bus bars, with the capability of differential protection.

② All 1000 frame generators incorporate form wound coils and VPI insulation systems.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**50
Hertz****4-Pole,
Three Phase****220Y or 440Y Volts
(12 Leads)**

1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR

MAGNAPLUS

Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail	NEMA F Cont. 105°C R/R		NEMA H Cont 125°C R/R		NEMA H Stby. 150°C R/R		List Price
					kVA	kW	kVA	kW	kVA	kW	
281PSL1500	205	12	220Y/440Y	No	4.5	3.6	5.1	4.1	5.8	4.6	
281PSL1501	210	12	220Y/440Y	No	5.4	4.3	6.1	4.9	6.9	5.5	
281CSL1502	220	12	220Y/440Y	No	9.6	7.7	10	8	10.5	8.4	
282PSL1703	240	12	220Y/440Y	②	10.3	8.2	12	9.6	12.5	10	
282CSL1504	250	12	220Y/440Y	No	13	10.4	14	11.2	15	12	
282CSL1505	275	12	220Y/440Y	No	17	13.6	18.5	14.8	20	16	
283CSL1506	310	12	220Y/440Y	No	18	14.4	20	16	22	17.6	
283CSL1507	350	12	220Y/440Y	No	22	17.6	24	19.2	26	20.8	
284CSL1508	405	12	220Y/440Y	No	25	20	27	22	30	24	
361CSL1600①	518	12	220Y/440Y	Yes	41	32	45	36	47	38	
361CSL1601①	569	12	220Y/440Y	Yes	45	36	51	41	54	43	
361CSL1602①	620	12	220Y/440Y	Yes	51	41	56	45	60	48	
362CSL1604①	706	12	220Y/440Y	Yes	75	60	81	65	88	70	
362CSL1606①	796	12	220Y/440Y	Yes	81	65	90	72	100	80	
363CSL1607①	943	12	220Y/440Y	Yes	101	81	113	90	119	95	
431CSL6202①	1220	12	220Y/440Y	Yes	130	104	140	112	150	120	
431CSL6204①	1310	12	220Y/440Y	Yes	151	121	163	130	173	138	
431CSL6206①	1415	12	220Y/440Y	Yes	161	129	176	141	190	152	
431CSL6208①	1455	12	220Y/440Y	Yes	195	156	210	168	225	180	
432PSL6210	1685	12	220Y/440Y	Yes	210	168	230	184	250	200	
432PSL6212	1760	12	220Y/440Y	Yes	260	208	280	224	300	240	
433PSL6216	2235	12	220Y/440Y	Yes	265	212	300	240	326	261	
433PSL6220	2245	12	220Y/440Y	Yes	310	248	343	274	371	297	

MAGNAPLUS

Alternate Models③

281PSL1502	220	12	220Y/440Y	No	9.4	7.5	10.1	8.1	10.8	8.6	
282PSL1704	270	12	220Y/440Y	②	10	8	10.5	8.4	11.5	9.2	
282PSL1705	295	12	220Y/440Y	②	12.5	10	15	12	15.6	12.5	
283PSL1706	336	12	220Y/440Y	②	17.5	14	20	16	20.6	16.5	
283PSL1707	366	12	220Y/440Y	②	22.5	18	25	20	26.3	21	
284PSL1708	405	12	220Y/440Y	Yes	22	18	25	20	27	22	
284PSL1742	436	12	220Y/440Y	Yes	27	22	31	25	32	26	
285PSL1700	480	12	220Y/440Y	Yes	31	25	35	28	38	31	
286PSL1701	600	12	220Y/440Y	Yes	45	36	50	40	52	42	
287PSL1702	670	12	220Y/440Y	Yes	47	38	53	43	56	45	

① 361 to 433 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

220Y or 440Y Volts
(10-12 Leads)
440Y Volts (4 Leads)

**4-Pole,
Three Phase**

**50
Hertz**

MAGNAMAX^{DVR}

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	NEMA F Cont. 105°C R/R		NEMA H Cont. 125°C R/R		NEMA H Stby. 150°C R/R		List Price
				kVA	kW	kVA	kW	kVA	kW	
431RSL4005	1280	12	220Y/440Y	120	96	130	104	138	110	
431RSL4007	1370	12	220Y/440Y	131	105	141	113	151	121	
432RSL4009	1550	12	220Y/440Y	155	124	169	135	181	145	
432RSL4011	1570	12	220Y/440Y	185	148	200	160	214	171	
432RSL4013	1600	12	220Y/440Y	216	173	229	183	239	191	
432RSL4015	1810	12	220Y/440Y	206	165	229	183	248	198	
432RSL4017	1830	12	220Y/440Y	224	179	245	196	264	211	
433RSL4019	2340	12	220Y/440Y	256	205	288	230	325	260	
433RSL4021	2365	12	220Y/440Y	326	261	358	286	388	310	
572RSL4024	2730	10	220Y/440Y	331	265	363	290	394	315	
572RSL4025	2730	12	220Y/440Y	331	265	363	290	394	315	
572RSL4027	2840	12	220Y/440Y	381	305	419	335	444	355	
572RSL4028	3050	10	220Y/440Y	363	290	406	325	444	355	
572RSL4029	3050	12	220Y/440Y	363	290	406	325	444	355	
572RSL4030	3110	10	220Y/440Y	469	375	519	415	563	450	
572RSL4031	3110	12	220Y/440Y	469	375	519	415	563	450	
573RSL4032	3400	10	220Y/440Y	556	445	606	485	656	525	
573RSL4033	3400	12	220Y/440Y	556	445	606	485	656	525	
573RSL4034	3620	10	220Y/440Y	513	410	569	455	619	495	
573RSL4035	3620	12	220Y/440Y	513	410	569	455	619	495	
574RSL4036	4080	10	220Y/440Y	569	455	631	505	688	550	
574RSL4037	4080	12	220Y/440Y	569	455	631	505	688	550	
741RSL4045	5490	12	220Y/440Y	806	645	888	710	963	770	
742RSL4049	6300	12	220Y/440Y	938	750	1031	825	1113	890	
Single Voltage Only										
574RSL4038	4240	4	440Y Only	725	580	794	635	850	680	
575RSL4044	5000	4 Bars	440Y Only	681	545	781	625	875	700	
740RSL4046	5200	4 Bars	440Y Only	913	730	1000	800	1094	875	
742RSL4048	6300	4 Bars	440Y Only	938	750	1031	825	1113	890	
742RSL4050	7230	4 Bars	440Y Only	1350	1080	1463	1170	1563	1250	
743RSL4052	7800	4 Bars	440Y Only	1119	895	1263	1010	1388	1110	
744RSL4054	8600	4 Bars	440Y Only	1363	1090	1550	1240	1713	1370	
744RSL4056	9740	4 Bars	440Y Only	1575	1260	1763	1410	1925	1540	
744RSL4058	9740	4 Bars	440Y Only	1538	1230	1725	1380	1875	1500	
Form Wound Coil Designs										
744FSL4060	7300	4 Bars	440Y Only	1350	1080	1475	1180	1588	1270	
744FSL4062	8300	4 Bars	440Y Only	1575	1260	1725	1380	1863	1490	

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**50
Hertz****4-Pole,
Three Phase****200Y or 400Y Volts (12 Leads)
230 Volts Delta (12 Leads)**1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS**

Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail.	NEMA F Cont. 105°C R/R		NEMA H Cont 125°C R/R		NEMA H Stby. 150°C R/R		List Price
					kVA	kW	kVA	kW	kVA	kW	
281PSL1500	205	12	200Y/400Y	No	6	4.8	6.4	5.1	7	5.6	
281PSL1501	210	12	200Y/400Y	No	7.1	5.7	7.8	6.2	8.4	6.7	
281CSL1502	220	12	200Y/400Y	No	11.7	9.3	12.3	9.8	12.9	10.3	
282PSL1703	240	12	200Y/400Y	Ⓢ	12.5	10	13.8	11	15	12	
282CSL1504	250	12	200Y/400Y	No	16.3	13	17.5	14	18.8	15	
282CSL1505	275	12	200Y/400Y	No	21.8	17.4	23.9	19.1	25	20	
283CSL1506	310	12	200Y/400Y	No	25	20	26	21	28	23	
283CSL1507	350	12	200Y/400Y	No	28	22	30	24	33	26	
284CSL1508	405	12	200Y/400Y	No	33	27	37	30	40	32	
284CSL1542	420	12	200Y/400Y	No	37	30	41	33	45	36	
361CSL1600①	518	12	200Y/400Y	Yes	44	36	48	38	51	41	
361CSL1601①	569	12	200Y/400Y	Yes	52	42	57	46	61	49	
361CSL1602①	620	12	200Y/400Y	Yes	63	50	68	54	75	60	
362CSL1604①	706	12	200Y/400Y	Yes	81	65	88	70	94	75	
362CSL1606①	796	12	200Y/400Y	Yes	94	75	100	80	110	88	
363CSL1607①	943	12	200Y/400Y	Yes	113	90	130	104	133	106	
431CSL6202①	1220	12	200Y/400Y	Yes	141	113	150	120	160	128	
431CSL6204①	1310	12	200Y/400Y	Yes	165	132	175	140	185	148	
431CSL6206①	1415	12	200Y/400Y	Yes	193	154	206	165	220	176	
431CSL6208①	1455	12	200Y/400Y	Yes	210	168	225	180	235	188	
432PSL6210	1685	12	200Y/400Y	Yes	251	201	270	216	285	228	
432PSL6212	1760	12	200Y/400Y	Yes	271	217	300	240	306	245	
433PSL6216	2235	12	200Y/400Y	Yes	331	265	360	288	385	308	
433PSL6220	2245	12	200Y/400Y	Yes	368	294	400	320	420	336	

MAGNAPLUS

Alternate Models③

281PSL1502	220	12	200Y/400Y	No	10.4	8.3	11.1	8.9	11.9	9.5	
282PSL1704	270	12	200Y/400Y	Ⓢ	13.8	11	15	12	16.3	13	
282PSL1705	295	12	200Y/400Y	Ⓢ	17.5	14	20	16	21.3	17	
283PSL1706	336	12	200Y/400Y	Ⓢ	23	19	26	21	27	22	
283PSL1707	366	12	200Y/400Y	Ⓢ	26	21	30	24	32	26	
284PSL1708	405	12	200Y/400Y	Yes	30	24	33	27	36	29	
284PSL1742	436	12	200Y/400Y	Yes	33	27	38	31	41	33	
285PSL1700	480	12	200Y/400Y	Yes	40	32	43	35	47	38	
286PSL1701	600	12	200Y/400Y	Yes	50	40	55	44	58	47	
287PSL1702	670	12	200Y/400Y	Yes	53	43	60	48	62	50	

① 361 to 433 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

200Y or 400Y Volts (10-12 Leads)
400Y Volts (4 Leads)
230 Volts Delta (12 Leads)

**4-Pole,
Three Phase**

**50
Hertz**

MAGNA MAX^{DVR}

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	NEMA F Cont. 105°C R/R		NEMA H Cont. 125°C R/R		NEMA H Stby. 150°C R/R		List Price
				kVA	kW	kVA	kW	kVA	kW	
431RSL4005	1280	12	200Y/400Y	143	114	151	121	158	126	
431RSL4007	1370	12	200Y/400Y	161	129	170	136	179	143	
432RSL4009	1550	12	200Y/400Y	200	160	214	171	225	180	
432RSL4011	1570	12	200Y/400Y	218	174	231	185	243	194	
432RSL4013	1600	12	200Y/400Y	231	185	244	195	253	202	
432RSL4015	1810	12	200Y/400Y	268	214	286	229	303	242	
432RSL4017	1830	12	200Y/400Y	270	216	289	231	305	244	
433RSL4019	2340	12	200Y/400Y	344	275	369	295	406	325	
433RSL4021	2365	12	200Y/400Y	375	300	400	320	425	340	
572RSL4024	2730	10	200Y/400Y	450	360	475	380	506	405	
572RSL4025	2730	12	200Y/400Y	450	360	475	380	506	405	
572RSL4027	2840	12	200Y/400Y	494	395	519	415	550	440	
572RSL4028	3050	10	200Y/400Y	531	425	569	455	600	480	
572RSL4029	3050	12	200Y/400Y	531	425	569	455	600	480	
572RSL4030	3110	10	200Y/400Y	563	450	600	480	638	510	
572RSL4031	3110	12	200Y/400Y	563	450	600	480	638	510	
573RSL4032	3400	10	200Y/400Y	688	550	725	580	763	610	
573RSL4033	3400	12	200Y/400Y	688	550	725	580	763	610	
573RSL4034	3620	10	200Y/400Y	706	565	750	600	794	635	
573RSL4035	3620	12	200Y/400Y	706	565	750	600	794	635	
574RSL4036	4080	10	200Y/400Y	794	635	850	680	894	715	
574RSL4037	4080	12	200Y/400Y	794	635	850	680	894	715	
741RSL4045	5490	12	200Y/400Y	1038	830	1100	880	1181	945	
742RSL4049	6300	12	200Y/400Y	1200	960	1288	1030	1363	1090	
Single Voltage Only										
574RSL4038	4240	4	400Y Only	850	680	913	730	963	770	
575RSL4044	5000	4 Bars	400Y Only	963	770	1038	830	1144	915	
740RSL4046	5200	4 Bars	400Y Only	1150	920	1225	980	1338	1070	
742RSL4048	6300	4 Bars	400Y Only	1200	960	1288	1030	1363	1090	
742RSL4050	7230	4 Bars	400Y Only	1450	1160	1550	1240	1638	1310	
743RSL4052	7800	4 Bars	400Y Only	1550	1240	1688	1350	1813	1450	
744RSL4054	8600	4 Bars	400Y Only	1788	1430	1925	1540	2038	1630	
744RSL4056	9740	4 Bars	380Y Only	2113	1690	2288	1830	2450	1960	
744RSL4058	9740	4 Bars	400Y Only	2089	1670	2238	1790	2438	1950	
Form Wound Coil Designs										
744FSL4060	7300	4 Bars	400Y Only	1438	1150	1550	1240	1663	1330	
744FSL4062	8300	4 Bars	400Y Only	1763	1410	1900	1520	2013	1610	

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**50
Hertz****4-Pole,
Three Phase,
Broad Range****190Y-208Y or
380Y-415Y Volts
(12 Leads)**1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	Bolt-on PMG Option Avail.	NEMA F Cont. 105°C R/R		NEMA H Cont 125°C R/R		NEMA H Stby. 150°C R/R		List Price
					kVA	kW	kVA	kW	kVA	kW	
281PSL1500	205	12	190Y-208Y/380Y-415Y	No	5.6	4.5	6.3	5	6.6	5.3	
281PSL1501	210	12	190Y-208Y/380Y-415Y	No	6.8	5.4	7.5	6	8	6.4	
281CSL1502	220	12	190Y-208Y/380Y-415Y	No	11.3	9	12	9.6	12.5	10	
282PSL1503	240	12	190Y-208Y/380Y-415Y	②	12	9.6	13.1	10.5	14.4	11.5	
282CSL1504	250	12	190Y-208Y/380Y-415Y	No	16.3	13	17.5	14	18.8	15	
282CSL1505	275	12	190Y-208Y/380Y-415Y	No	21.3	17	23.1	18.5	25	20	
283CSL1506	310	12	190Y-208Y/380Y-415Y	No	22	18	25	20	27	22	
283CSL1507	350	12	190Y-208Y/380Y-415Y	No	27	22	30	24	32	26	
284CSL1508	405	12	190Y-208Y/380Y-415Y	No	31	25	35	28	37	30	
284CSL1542	420	12	190Y-208Y/380Y-415Y	No	36	29	40	32	42	34	
361CSL1600①	518	12	190Y-208Y/380Y-415Y	Yes	44	35	45	36	50	40	
361CSL1601①	569	12	190Y-208Y/380Y-415Y	Yes	50	40	56	45	60	48	
361CSL1602①	620	12	190Y-208Y/380Y-415Y	Yes	60	48	65	52	73	58	
362CSL1604①	706	12	190Y-208Y/380Y-415Y	Yes	80	64	85	68	91	73	
362CSL1606①	796	12	190Y-208Y/380Y-415Y	Yes	90	72	100	80	110	88	
363CSL1607①	943	12	190Y-208Y/380Y-415Y	Yes	113	90	130	104	133	106	
431CSL6202①	1220	12	190Y-208Y/380Y-415Y	Yes	140	112	150	120	155	124	
431CSL6204①	1310	12	190Y-208Y/380Y-415Y	Yes	165	132	175	140	183	146	
431CSL6206①	1415	12	190Y-208Y/380Y-415Y	Yes	185	148	200	160	211	169	
431CSL6208①	1455	12	190Y-208Y/380Y-415Y	Yes	206	165	225	180	235	188	
432PSL6210	1685	12	190Y-208Y/380Y-415Y	Yes	240	192	260	208	275	220	
432PSL6212	1760	12	190Y-208Y/380Y-415Y	Yes	270	216	300	240	303	242	
433PSL6216	2235	12	190Y-208Y/380Y-415Y	Yes	320	256	350	280	375	300	
433PSL6220	2245	12	190Y-208Y/380Y-415Y	Yes	355	284	400	320	410	328	

MAGNAPLUS Alternate Models③

281PSL1502	220	12	190Y-208Y/380Y-415Y	No	10	8	10.8	8.6	11.4	9.1	
282PSL1704	270	12	190Y-208Y/380Y-415Y	②	12.5	10	13.8	11	15	12	
282PSL1705	295	12	190Y-208Y/380Y-415Y	②	16.3	13	18.8	15	20	16	
283PSL1706	336	12	190Y-208Y/380Y-415Y	②	22	18	25	20	26	21	
283PSL1707	366	12	190Y-208Y/380Y-415Y	②	26	21	30	24	32	26	
284PSL1708	405	12	190Y-208Y/380Y-415Y	Yes	28	23	32	26	35	28	
284PSL1742	436	12	190Y-208Y/380Y-415Y	Yes	33	27	37	30	40	32	
285PSL1700	480	12	190Y-208Y/380Y-415Y	Yes	37	30	42	34	45	36	
286PSL1701	600	12	190Y-208Y/380Y-415Y	Yes	50	40	55	44	58	47	
287PSL1702	670	12	190Y-208Y/380Y-415Y	Yes	53	43	60	48	62	50	

① 361 to 433 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1500 RPM
NEMA Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
DVR®2000E AVR with PMG Excitation

**190Y-208Y or
380Y-415Y Volts
(10-12 Leads)**

**4-Pole,
Three Phase,
Broad Range**

**50
Hertz**

MAGNA MAX^{DVR}

Base Model	Net Wt. (lbs.)	No. of Leads	Voltage	NEMA F Cont. 105°C R/R		NEMA H Cont. 125°C R/R		NEMA H Stby. 150°C R/R		List Price
				kVA	kW	kVA	kW	kVA	kW	
431RSL4005	1280	12	190Y-208Y/380Y-415Y	136	109	145	116	151	121	
431RSL4007	1370	12	190Y-208Y/380Y-415Y	155	124	164	131	173	138	
432RSL4009	1550	12	190Y-208Y/380Y-415Y	189	151	203	162	214	171	
432RSL4011	1570	12	190Y-208Y/380Y-415Y	208	166	221	177	234	187	
432RSL4013	1600	12	190Y-208Y/380Y-415Y	231	185	244	195	253	202	
432RSL4015	1810	12	190Y-208Y/380Y-415Y	253	202	275	220	290	232	
432RSL4017	1830	12	190Y-208Y/380Y-415Y	258	206	278	222	294	235	
433RSL4019	2340	12	190Y-208Y/380Y-415Y	338	270	363	290	394	315	
433RSL4021	2365	12	190Y-208Y/380Y-415Y	366	293	394	315	413	330	
572RSL4024	2730	10	190Y-208Y/380Y-415Y	413	330	444	355	475	380	
572RSL4025	2730	12	190Y-208Y/380Y-415Y	413	330	444	355	475	380	
572RSL4027	2840	12	190Y-208Y/380Y-415Y	469	375	500	400	531	425	
572RSL4028	3050	10	190Y-208Y/380Y-415Y	500	400	531	425	563	450	
572RSL4029	3050	12	190Y-208Y/380Y-415Y	500	400	531	425	563	450	
572RSL4030	3110	10	190Y-208Y/380Y-415Y	550	440	581	465	625	500	
572RSL4031	3110	12	190Y-208Y/380Y-415Y	550	440	581	465	625	500	
573RSL4032	3400	10	190Y-208Y/380Y-415Y	650	520	700	560	738	590	
573RSL4033	3400	12	190Y-208Y/380Y-415Y	650	520	700	560	738	590	
573RSL4034	3620	10	190Y-208Y/380Y-415Y	669	535	713	570	756	605	
573RSL4035	3620	12	190Y-208Y/380Y-415Y	669	535	713	570	756	605	
574RSL4036	4080	10	190Y-208Y/380Y-415Y	731	585	788	630	838	670	
574RSL4037	4080	12	190Y-208Y/380Y-415Y	731	585	788	630	838	670	
741RSL4045	5490	12	190Y-208Y/380Y-415Y	969	775	1038	830	1106	885	
742RSL4049	6300	12	190Y-208Y/380Y-415Y	1131	905	1219	975	1300	1040	

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

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Hertz**4-Pole,
Single Phase****220/110 Volts (12 Leads)③**
110 Volts Delta (12 Leads)④**1500 RPM**
NEMA Class H Insulation
40°C Ambient**MAGNAPLUS** Standard Models, SE350 AVR with Shunt (Non-PMG) Excitation

Base Model	Net Wt. (lbs.)	Bolt-on PMG Option Avail.	Ratings @ 0.8 Power Factor Lagging						Ratings @ 1.0 Power Factor			List Price
			NEMA F Cont. 105°C R/R		NEMA H Cont. 125°C R/R		NEMA H Stby. 150°C R/R		NEMA F Cont. 105°C R/R	NEMA H Cont. 125°C R/R	NEMA H Stby. 150°C R/R	
			kVA	kW	kVA	kW	kVA	kW	kVA/kW	kVA/kW	kVA/kW	
281PSL1500	205	No	3.1	2.5	3.3	2.6	3.4	2.7	4	4.2	4.4	
281PSL1501	210	No	4.1	3.3	4.4	3.5	4.5	3.6	5.2	5.5	5.7	
281CSL1502	220	No	6.9	5.5	7.5	6	7.8	6.2	7.5	8	8.5	
282PSL1703	240	②	7.5	6	7.9	6.3	8.1	6.5	8.7	9.3	9.7	
282CSL1504	250	No	9.4	7.5	10	8	10.6	8.5	10	11	11.5	
282CSL1505	275	No	12.8	10.2	13.8	11	14.4	11.5	13	14	15	
283CSL1506	310	No	14.4	11.5	16.3	13	16.9	13.5	16	18	19	
283CSL1507	350	No	16.3	13	16.9	13.5	17.5	14	19	20	21	
284CSL1508	405	No	20	16	22.5	18	25	20	24	26	28	
284CSL1542	420	No	22.5	18	25	20	26.3	21	25	27	29	
361CSL1600①	518	Yes	25	20	26	21	29	23	28	30	32	
361CSL1601①	569	Yes	29	23	31	25	34	27	33	35	38	
361CSL1602①	620	Yes	33	26	35	28	39	31	37	40	43	
362CSL1604①	706	Yes	44	35	48	38	53	42	46	50	54	
362CSL1606①	796	Yes	51	41	56	45	60	48	56	60	65	
363CSL1607①	943	Yes	58	46	63	50	66	53	60	65	70	
431CSL6202①	1220	Yes	90	72	95	76	100	80	90	95	100	
431CSL6204①	1310	Yes	100	80	110	88	115	92	100	110	115	
431CSL6206①	1415	Yes	120	96	130	104	135	108	120	130	135	
431CSL6208①	1455	Yes	125	100	140	112	145	116	125	140	145	
432CSL6210①	1685	Yes	150	120	165	132	170	136	150	165	170	
432CSL6212①	1760	Yes	150	120	165	132	170	136	150	165	170	
433CSL6216①	2235	Yes	190	152	200	160	215	172	190	200	215	
433PSL6220	2245	Yes	190	152	200	160	215	172	190	200	215	

MAGNAPLUS Alternate Models③, SE350 AVR with Shunt (Non-PMG) Excitation

281PSL1502	220	No	5.9	4.7	6.3	5.0	6.5	5.2	6.8	7.2	7.5	
282PSL1704	270	②	9.1	7.3	9.8	7.8	1.0	8.0	12.0	13.0	14.0	
282PSL1705	295	②	11.3	9.0	12.5	10.0	13.1	10.5	13.5	15.0	16.0	
283PSL1706	336	②	13.8	11.0	15.0	12.0	16.3	13.0	17.0	18.0	20.0	
283PSL1707	366	②	16.9	13.5	18.1	14.5	18.8	15.0	19.0	21.0	23.0	
284PSL1708	405	Yes	20.0	16.0	21.3	17.0	22.5	18.0	25.0	26.0	28.0	
284PSL1742	436	Yes	23.8	19.0	26.3	21.0	27.5	22.0	27.0	30.0	32.0	
285PSL1700	480	Yes	25	20	28	22	30	24	28	31	33	
286PSL1701	600	Yes	28	22	31	25	34	27	32	35	37	
287PSL1702	670	Yes	31	25	34	27	36	29	35	37	40	

MAGNA MAX DVR DVR®2000E AVR with PMG Excitation

431RSL4005	1280	Std.	70	56	74	59	76	61	70	74	77	
431RSL4007	1370	Std.	91	73	96	77	101	81	92	97	102	
432RSL4009	1550	Std.	116	93	124	99	130	104	116	124	130	
432RSL4011	1570	Std.	115	92	121	97	128	102	115	122	128	
432RSL4013	1600	Std.	118	94	124	99	129	103	118	124	129	
432RSL4015	1810	Std.	136	109	146	117	155	124	136	146	155	
432RSL4017	1830	Std.	134	107	143	114	151	121	134	143	151	
433RSL4019	2340	Std.	169	135	181	145	200	160	169	181	200	
433RSL4021	2365	Std.	179	143	191	153	203	162	179	191	203	

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Hertz**4-Pole,
Dedicated
Single Phase****110 or 220/110 Volts**
(4 Leads)④**1500 RPM**
NEMA Class H Insulation
40°C Ambient
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNAPLUS** Standard Models

Base Model	Net Wt. (lbs.)	Bolt-on PMG Avail.	Ratings @ 0.8 Power Factor Lagging						Ratings @ 1.0 Power Factor			List Price
			NEMA F Cont. 105°C R/R		NEMA H Cont. 125°C R/R		NEMA H Stby. 150°C R/R		NEMA F Cont. 105°C R/R	NEMA H Cont. 125°C R/R	NEMA H Stby. 150°C R/R	
			kVA	kW	kVA	kW	kVA	kW	kVA/kW	kVA/kW	kVA/kW	
281PSL1511	200	No	3.5	2.8	3.8	3	3.9	3.1	4.7	4.9	5.1	
281PSL1512	206	No	4.4	3.5	4.5	3.6	4.8	3.8	5.7	6	6.4	
281CSL1513	216	No	6.6	5.3	7.1	5.7	7.5	6	9.5	10	10.5	
282PSL1514	236	②	6.5	5.2	7.5	6	7.9	6.3	9	9.7	10.5	
282CSL1515	250	No	9.4	7.5	10	8	10.6	8.5	13	14	15	
282PSL1716	288	②	10.6	8.5	11.3	9	12.5	10	16	17.5	18.5	
283CSL1517	349	No	15.6	12.5	16.9	13.5	18.1	14.5	22	24	25	
361PSL1611	513	No	N/A	N/A	N/A	N/A	N/A	N/A	28	31	35	
361PSL1612	578	No	24	19	26	21	30	24	37	40	45	
361PSL1613①	626	No	39	31	44	35	46	37	50	54	58	
362PSL1615①	779	No	39	31	44	35	46	37	55	60	65	
431PSL6222	1070	No	60	48	63	50	70	56	86	93	100	
431PSL6224	1280	No	81	65	88	70	95	76	115	125	135	
432PSL6228	1720	No	145	116	156	125	170	136	170	185	195	

MAGNAPLUS Alternate Models③

281PSL1513	216	No	5.6	4.5	6.3	5	6.6	5.3	7.5	8	8.5	
282PSL1715	265	②	8.1	6.5	8.8	7	9.4	7.5	12.5	13.5	14	
283PSL1717	331	②	12	9.6	13.1	10.5	13.8	11	18	20	22	
283PSL1718	360	②	15	12	16.3	13	17.5	14	23	25	27	
284PSL1750	430	Yes	20	16	22	18	23	19	30	33	35	
285PSL1711	470	Yes	21	17	25	20	26	21	30	33	37	
286PSL1712	590	Yes	26	21	27	22	30	24	37	40	43	
287PSL1713	660	Yes	27	22	28	23	31	25	40	43	45	

1800 RPM
NEMA Class H Insulation
40°C Ambient
DVR®2000E AVR with PMG

Drill Rig Duty^①

4-Pole,
Three Phase

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Hertz

MAGNAMAX^{DVR}

480Y/277 Volts (4 Leads)

Base Model	Net Wt. (lbs.)	No. of Leads	kW Rating		List Price
			NEMA B 80°C R/R		
			0.7 P.F. Lagging	0.8 P.F. Lagging	
573FSL4202	3400	4 Bar	400	450	
574FSL4204	3650	4 Bar	500	570	
742FSL4208	5900	4 Bar	700	800	
743FSL4210	6500	4 Bar	800	900	
743FSL4212	6900	4 Bar	900	1025	
744FSL4214	7300	4 Bar	1000	1140	
744FSL4216	8300	4 Bar	1200	1375	

MAGNAMAX^{DVR}

600Y/346 Volts (4 Leads)

Base Model	Net Wt. (lbs.)	No. of Leads	kW Rating		List Price
			NEMA B 80°C R/R		
			0.7 P.F. Lagging	0.8 P.F. Lagging	
573FSS4224	3400	4 Bar	400	450	
574FSS4226	3650	4 Bar	500	600	
742FSS4230	5900	4 Bar	700	800	
743FSS4232	6500	4 Bar	800	900	
743FSS4234	6900	4 Bar	900	1025	
744FSS4236	7300	4 Bar	1000	1140	
744FSS4238	8300	4 Bar	1200	1375	

① Models include VPI insulation, form wound coil construction, PMG excitation support, raised drip cover, and space heaters as standard equipment. All models are specially designed to accept heavy SCR (Thyristor) loading.
Notes A, B, C, D, E, and F on page 44 apply to this page.

Marathon Electric's Crane
Duty AC generators are
designed for Rubber Tired
Gantry Cranes or other mobile/
stationary crane applications.

Crane Duty Generators

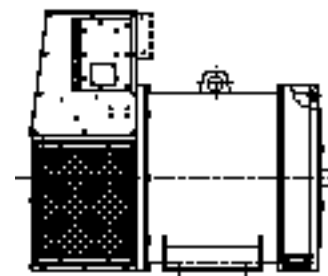
4-Pole,
Three Phase

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Hertz
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Hertz

MAGNAMAX^{DVR}

STANDARD FEATURES:

- Form wound main stator coils with special VPI insulation system.
- Epoxy overcoat for humid and salt air environments.
- Intake air filters with pressure shut-off switches.
- IP23 weather protected enclosures and space heaters.
- Heavy duty ball bearings with a B-10 life of 40,000 hours.
- Low sub-transient (X"d) reactance and low voltage dip.
- PMG excitation support system and three phase, true RMS sensing voltage regulator.
- Single or optional two bearing close-coupled engine mounting.



Ratings for all units on this page are very application specific and require an application review for proper sizing. Please contact factory for application assistance.

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Hertz

**6-Pole,
Three Phase,
Broad Range**

208Y-240Y or 416Y-480Y Volts
(12 Leads)®
240 or 120 Volts Delta (12 Leads)

1200 RPM
NEMA Class F Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR

LIMA SER®

Base Model	Net Wt. (lbs.)	kW Rating		List Price
		NEMA B Continuous 80°C R/R	NEMA F Continuous 105°C R/R	
361SSL0105	580	21	23	
361SSL0107	605	32	35	
361SSL0108	685	42	45	
441SSL0109	885	55	61	
441SSL0110	970	67	75	
441SSL0111	1035	75	81	
441SSL0112	1185	103	112	

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Hertz

**6-Pole,
Three Phase,
Broad Range**

190Y-208Y or 380Y-415Y Volts
(12 Leads)®
220 or 110 Volts Delta (12 Leads)

1000 RPM
NEMA Class F Insulation
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR

LIMA SER®

Base Model	Net Wt. (lbs.)	kVA Rating		kW Rating		List Price
		NEMA B Continuous 80°C R/R	NEMA F Continuous 105°C R/R	NEMA B Continuous 80°C R/R	NEMA F Continuous 105°C R/R	
361SSL0105	580	18.8	20	15	16	
361SSL0107	605	28.8	31.3	23	25	
361SSL0108	685	38.8	45	31	36	
441SSL0109	885	47.5	52.5	38	42	
441SSL0110	970	62.5	71.3	50	57	
441SSL0111	1035	66.3	75	53	60	
441SSL0112	1185	102.5	112.5	82	90	

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Hertz

**6-Pole,
Single Phase**

**240/120 Volts Zigzag or
Double Delta Connection**®^{①②}
(12 Leads)

1200 RPM
NEMA Class F Insulation
40°C Ambient
Shunt (Non-PMG) Excitation
SE350 AVR

LIMA SER®

Base Model	Net Wt. (lbs.)	kW Rating				List Price
		0.8 PF Lagging		1.0 PF		
		NEMA B Continuous 80°C R/R	NEMA F Continuous 105°C R/R	NEMA B Continuous 80°C R/R	NEMA F Continuous 105°C R/R	
361SSL0105	580	12	13	15	16	
361SSL0107	605	16	17	20	22	
361SSL0108	685	22	23	27	29	
441SSL0109	885	30	34	38	43	
441SSL0110	970	36	40	45	50	
441SSL0111	1035	42	45	53	56	
441SSL0112	1185	50	52	62	65	

① For 120 volt only service, use an AVC63-4A or a VR63-4C voltage regulator to replace the standard SE350 regulator.
See Modification Section for price adder.

② Available in standard or "Delco" feet.
Notes A, B, C, D, E, F, and G on page 44 apply to this page.

2000 RPM
40°C Ambient
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
AVC63-12B2 Voltage Regulator

208Y or 416Y Volts
(10 Leads)

**24-Pole,
Three Phase**

**400
Hertz**

Type	Base Model	Net Wt. (lbs.)	kW Rating @ 208 or 416 Volts		List Price
			80°C R/R	105°C R/R	
LIMA SER®	360SSL1311	450	25	30	
LIMA SER®	360SSL1312	570	30	35	
LIMA SER®	360SSL1313	590	40	50	
MAGNAPLUS®	430PSL1314	1200	60	70	
MAGNAPLUS®	430PSL1315	1220	75	90	
MAGNAPLUS®	430PSL1316	1240	100	120	
MAGNAPLUS®	432PSL1821	1575	108	128	

1800 RPM
NEMA Class F Insulation
40°C Ambient
1.0 Power Factor

Light Tower Application®
240/120 or 120 Volts
(4 Leads)

**Single Phase
Capacitor Designs**

**60
Hertz**

Pancake

Base Model	kW @ 80°C R/R	kW @ 105°C R/R	Length (in.)	Weight (lbs.)	List Price
201CSA5411	5.4	6	9.72	110	
201CSA5412	7.2	8	10.71	127	

1500 RPM
NEMA Class F Insulation
40°C Ambient
1.0 Power Factor

Light Tower Application®
220/110 or 110 Volts
(4 Leads)

**Single Phase
Capacitor Designs**

**50
Hertz**

Pancake

Base Model	kW @ 80°C R/R	kW @ 105°C R/R	Length (in.)	Weight (lbs.)	List Price
332CSA5213	5.5	6.5	8.5	134	

2500 RPM
NEMA Class H Insulation
50°C Ambient
1.0 Power Factor

Ballestless Light Tower®
240 Volts (6 Leads)

**36-Pole,
Four Phase**

**750
Hertz**

MAGNALITE®

Base Model	kW @ 80°C R/R	kW @ 105°C R/R	Length (in.)	Weight (lbs.)	List Price
191LFN2251	4	5	5	35	

- ① Light Tower models have been specifically designed to have characteristics compatible with the needs of Metal Halide lamps.
② Lamp Striking Voltage approximately 550 volts.
Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****4-Pole****LIMA®MAC**
Inherently Regulated^①1800 RPM
NEMA Class F-Stator/H-Rotor Insulation
40°C Ambient**LIMA®MAC**

Base Model		Net Wt. (lbs.)	Standard Voltage Regulator ^①	3 Phase 0.8 Power Factor Lagging Continuous kW 80°C R/R	1 Phase 1.0 Power Factor Continuous kW 105°C R/R ^②	List Price
10 Leads	12 Leads ^②					
240Y or 480Y	208Y or 416Y or 240/120, 1Ø					
250MSL1237	250MSL1235	150	Not Required	5	5	
250MSL1238	250MSL1236	165	Not Required	7.5	7.5	
280MSL0054	280MSL0079	245	Not Required	10	10	
280MSL0055	280MSL0080	260	Not Required	12	12	
280MSL0056	280MSL0081	275	Not Required	15	15	
360MSL0057	360MSL0082	560	Not Required	20	20	
360MSL0058	360MSL0083	635	Not Required	25	25	
360MSL0059	360MSL0084	685	Not Required	30	30	
360MSL0060	360MSL0085	720	Not Required	40	40	
440MSL0885	440MSL0860	1035	Not Required	50	50	
440MSL0886	440MSL0861	1085	Not Required	60	60	
440MSL0887	440MSL0862	1185	Not Required	75	75	
440MSL0888	440MSL0863	1270	Not Required	100	100	
580MSL0889	Not Available	1710	Not Required	125	Not Available	
580MSL1166		1770	Not Required	150		
580MSL0891		2130	Not Required	175		
580MSL0892		2185	Not Required	200		
680MSL0893	Not Available	2510	Not Required	250	Not Available	
680MSL0894		2660	Not Required	300		

**60
Hertz****4-Pole,
Dedicated
Single Phase****240/120 Volts (4 Leads)**1800 RPM
NEMA Class F-Stator/H-Rotor Insulation
40°C Ambient
0.9 Power Factor Lagging**LIMA®MAC**

Base Model	Number of Leads	Net Wt. (lbs.)	Standard Voltage Regulator	Continuous kW 105°C R/R	List Price
250MSL1185	4	165	Not Required	5	
250MSL1152	4	180	Not Required	7.5	

**60
Hertz****4-Pole,
Three Phase****240Y or 480Y Volts
(10 Leads)^①**1800 RPM
NEMA Class F-Stator/H-Rotor Insulation
40°C Ambient
0.8 Power Factor Lagging**LIMA®MAC Reefer**

Base Model	Number of Leads	Overall Length	Net Wt. (lbs.)	Standard Voltage Regulator	Continuous kW 105°C R/R	List Price
260MSL1361	10	17.0"	285	Not Required	15	

① LIMA®MAC generators are specifically designed for starting three phase AC electric motors. LIMA®MAC generators provide 1 hp/kW, Code G induction motor starting capability with 35% voltage dip (80°C rise rating). LIMA®MAC generators are self-excited and inherently-regulated, providing 4% voltage regulation without external voltage regulator or transformers. LIMA®MAC generators inherently provide 500% 3 phase short circuit support and volts/hertz operation.

② Only 12-lead units may be connected for single phase operation: 120 V Delta, 240/120 V Low Zigzag or 480 V High Zigzag.
Notes A through D on page 44 apply to this page.



1800 RPM
NEMA Class H Insulation
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR
Bolt-on PMG Available

**4-Pole,
Three Phase**

**60
Hertz**

Base Model	Net Wt. (lbs.)	Number of Leads	kW Ratings @ 50°C Ambient			kW Ratings @ 40°C Ambient			List Price
			208Y - 240D Cont. 95°C R/R	450Y Cont. 95°C R/R	480Y Cont. 95°C R/R	208Y - 240D Cont. 80°C R/R	450Y Cont. 80°C R/R	480Y Cont. 80°C R/R	
361PSL3120	518	12	37	40	41	35	37	40	
361PSL3121	569	12	46	48	50	45	48	49	
361PSL3122	620	12	55	58	60	53	55	58	
362PSL3124	706	12	67	70	77	65	68	75	
362PSL3126	796	12	82	83	83	80	80	80	
363PSL3127	943	12	105	110	115	100	105	110	
431PSL6252	1220	12	133	135	135	125	125	125	
431PSL6254	1310	12	156	160	160	142	143	143	
431PSL6256	1415	12	183	190	186	170	170	165	
431PSL6258	1455	12	195	198	200	176	180	180	
432PSL6260	1685	12	245	245	245	220	220	220	
432PSL6262	1760	12	245	255	260	225	227	230	
433PSL6266	2235	12	325	325	321	290	285	280	
433PSL6270	2245	12	345	355	352	315	315	310	



1500 RPM
NEMA Class H Insulation
0.8 Power Factor Lagging
Shunt (Non-PMG) Excitation
SE350 AVR
Bolt-on PMG Available

**4-Pole,
Three Phase**

**50
Hertz**

Base Model	Net Wt. (kg)	Number of Leads	kVA Ratings @ 50°C Ambient						List Price
			220Y Cont. 95°C R/R	220Y Cont. 110°C R/R	380Y Cont. 95°C R/R	380Y Cont. 110°C R/R	400Y Cont. 95°C R/R	400Y Cont. 110°C R/R	
361PSL3120	234	12	38	40	40	44	41	45	
361PSL3121	258	12	43	45	50	53	50	52	
361PSL3122	281	12	45	51	60	65	56	62	
362PSL3124	320	12	65	75	75	80	73	81	
362PSL3126	361	12	73	81	82	94	81	94	
363PSL3127	427	12	90	101	100	113	100	113	
431PSL6252	553	12	121	130	140	143	135	141	
431PSL6254	594	12	143	151	160	166	160	165	
431PSL6256	641	12	150	161	186	200	183	193	
431PSL6258	659	12	183	195	200	210	200	210	
432PSL6260	764	12	191	210	235	256	240	251	
432PSL6262	798	12	245	260	256	270	256	271	
433PSL6266	1013	12	241	265	325	245	310	331	
433PSL6270	1018	12	285	310	355	375	350	368	

The Marathon Mariner features a heavy duty rectifier assembly designed to handle extreme voltage transient surges and over-current situations (oversized diodes and surge suppressors are included for extreme voltage transient surges). Windings have also been reinforced to handle the harshness of salt-laden, marine applications. Proven wrappings and polybutadiene overcoat used in crane duty and reefer applications have been applied to the design. The Marathon Mariner is the ideal choice for heavy duty industrial applications. Modifications such as PMG/DVR*2000E AVR, space heaters, dripcovers, etc., are also available (see Modification Section for details).

Marathon Mariner units are capable of being Marine Agency certified. Please contact factory for price adders for agency certification. Notes A, B, C, D, E, F, and G on page 44 apply to this page.



**60
Hertz****4-Pole,
Three Phase**
208Y Volts (10-12 Leads)
240Y Volt Delta (12 Leads)
450Y/260 Volts (4-10-12 Leads)
480Y/277 Volts (4-10-12 Leads)

1800 RPM
50°C Ambient
0.8 Power Factor Lagging
Dripcover
DVR®2000E AVR with PMG

American Bureau of Shipping (ABS) Certified Generators

MAGNA**PLUS**

- Space Heaters standard on 431 and larger frame sizes
- ABS Witness Tests including all Agency Fees
- All generators include PMG excitation support

Base Model	Net Wt. (lbs.)	Number of Leads	kW Rating @ 0.8 PF Lagging			List Price
			208Y - 240D Cont. 95°C R/R	450Y Cont. 95°C R/R	480Y Cont. 95°C R/R	
361PSL1600	518	12	37	40	41	
361PSL1601	569	12	46	48	50	
361PSL1602	620	12	55	58	60	
362PSL1604	706	12	67	70	77	
362PSL1606	796	12	82	83	83	
363PSL1607	943	12	105	110	115	
431PSL6202	1220	12	133	136	135	
431PSL6204	1310	12	156	160	160	
431PSL6206	1415	12	183	190	186	
431PSL6208	1455	12	195	197	200	
432PSL6210	1685	12	245	245	245	
432PSL6212	1760	12	245	252	260	
433PSL6216	2235	12	325	325	321	
433PSL6220	2245	12	345	355	352	

MAGNA**MAX**^{DVR}

431RSL4005	1280	12	127	135	139	
431RSL4007	1370	12	142	150	157	
432RSL4009	1550	12	179	192	193	
432RSL4011	1570	12	198	208	211	
432RSL4013	1600	12	209	220	222	
432RSL4015	1810	12	252	264	255	
432RSL4017	1830	12	262	265	255	
433RSL4019	2340	12	310	320	335	
433RSL4021	2365	12	330	345	365	
572RSL4024	2730	10	Not Normally Used	430	430	
572RSL4027	2840	12		440	475	
572RSL4028	3050	10		505	505	
572RSL4030	3110	10		500	515	
573RSL4032	3400	10		645	645	
573RSL4034	3620	10		650	670	
574RSL4036	4080	10		690	700	
574RSL4038	4240	4		720	750	
575RSL4044	5000	4 Bars		825	870	
741RSL4045	5490	12		880	940	
740RSL4046	5200	4 Bars		925	970	
742RSL4048	6300	4 Bars		1010	1040	
742RSL4050	7230	4 Bars		1175	1220	
743RSL4052	7800	4 Bars		1450	1500	
744RSL4054	8600	4 Bars		1475	1520	
744RSL4056	9740	4 Bars		1790	1895	
744RSL4058	9740	4 Bars		1910	1980	

- For ABS certification only. For certification by other Marine Classification Societies such as Lloyds, DNV, NKK, etc., contact Marathon for pricing. ABS witness testing may not be required for units rated below 100 kW.
- If space heaters are specified for frames 363 and smaller, see Modification Section for pricing.
- Required information at time of order placement: Vessel Name/Hull Number, shipyard, nameplate ratings, and mounting arrangements.
- RTD's are required on Mobil Offshore Drilling Units (MODU) for units rated 400 kW (500 kVA) and above. See Modification Section for pricing.
- RTD's are required on all units rated 1000 Volts and above. See Modification Section for pricing.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

Marine Classification Society Requirements for Certification of Shipboard Generators

Subject	American Bureau Of Shipping (ABS)	Lloyd's Register Of Shipping	Germanischer Lloyd's	Korean Register Of Shipping	Nippon Kaiji Kyokai NKK	Det Norske Veritas
Minimum Rating Requiring Certification	100 kW	100 kW	50 kW	All Generators	All Generators	100 kW
Ambient Temperature	50° C	45° C	45° C	50° C	50° C	45° C
Temperature Rise	95° C	95° C	90° C	95° C	95° C	95° C
Embedded ④ Temperature Detectors	Required for all units 1 kV and over	Required for propulsion systems only	Not Specified	Not Specified	Not Specified	Required for all units 1000 kW and over
Space Heaters	Required ①	Not Specified ②	Not Specified ②	Not Specified ②	Not Specified ②	Req. for all units
Sustain Short Circuit Current in Percent (%) Rated F.L. Current	300% for 2 Sec.	300% for 2 Sec.	300% for 2 Sec.	300% for 2 Sec.	Not Specified	300% for 2 Sec.
Drip Cover or Minimum Enclosure Required	IP22	IP22	IP22	IP23	IP22	IP22
Fixed Termination of Load Leads ③	Not Specified	Required	Not Specified	Not Specified	Not Specified	Required
Shaft Material Test ④	Not Specified	Required	Required	Required	Not Specified	Required

Notes: ① Required for generators weighing 1000 pounds and over.
 ② Not required by Agency Rules, but strongly advised.
 ③ Generator load leads must be terminated on a fixed terminal such as a bus bar, link board or insulated stand-off.
 ④ Requires generator to be a build-up.
 For generators requiring Certification by Agencies other than those listed in the above table, please consult factory.

1800 RPM
 NEMA Class H Insulation
 40°C Ambient
 0.8 Power Factor Lagging

**Three Phase,
 480Y Volts and 208Y Volts
 Available Simultaneously
 (Dual Windings)**

**Dual Voltage
 Generators**

**60
 Hertz**

MAGNAPLUS (Shunt Non-PMG) Excitation, Bolt-on PMG Option Available

Base Model	No. Leads	Voltages①	Std AVR	Continuous kW Rating @ Designated NEMA Rise		List Price
				NEMA F 105°C R/R	NEMA H 125°C R/R	
361PSL1652	7	480Y & 208Y	SE350	50	55	
363PSL1651	7	480Y & 208Y	SE350	75	80	
431PSL7001	7	480Y & 208Y	SE350	125	135	
432PSL7000	7	480Y & 208Y	SE350	185	195	
433PSL7002	7	480Y & 208Y	SE350	225	240	

MAGNAMAX^{DVR} PMG Excitation

572RSL7002	7	480Y & 208Y	DVR®2000E	300	325	
572RSL7000	7	480Y & 208Y	DVR®2000E	350	375	
572RSL7001	7	480Y & 208Y	DVR®2000E	375	400	
574RSL7003	7	480Y & 208Y	DVR®2000E	500	525	

① 120 volts single phase available line to neutral on 208Y volts winding.

**60
Hertz****UL2200 Ratings^④
4-Pole****Maximum kW Output at
27°C ambient and 130°C R/R
for UL2200 Applications**1800 RPM
NEMA Class H Insulation
Shunt (Non-PMG) Excitation
SE350 AVR**MAGNA^{PLUS}****Standard Models**

Base Model	Net Wt. (lbs.)	No. of Leads	Bolt-on PMG Option Avail.	60 Hz, Three Phase							60 Hz, 1 Phase		List Price
				0.8 PF Lagging							0.8 PF	1.0 PF	
				High Wye Connection					Delta	Low Wye	ZigZag		
				480 V	460 V	440 V	416 V	380 V	240 V	208 V	240 V	240 V	
281PSL1500	205	12	No	6.6	6.7	7	7	7	7	7	3.8	5.8	
281PSL1501	210	12	No	8.2	8.4	8.7	8.7	8.7	8.7	8.7	4.8	7.2	
281CSL1502	220	12	No	13	12.5	11.5	11	10	10.5	10.5	7.5	9.5	
282PSL1703	240	12	Ⓢ	15	15	15	13.5	12.5	13.5	13.5	8.2	11	
282CSL1504	250	12	No	18	17.5	17.5	17	15.5	17	17	10	13	
282CSL1505	275	12	No	24	24	23	22	20	22	22	13	17	
283CSL1506	310	12	No	28	27	27	26	23	26	26	16	20	
283CSL1507	350	12	No	33	32	31	30	27	30	30	18	25	
284CSL1508	405	12	No	40	39	39	38	35	38	38	25	31	
284CSL1542	420	12	No	43	41	41	40	36	40	40	24	32	
361CSL1600Ⓢ	518	12	Yes	48	46	45	42	38	42	42	30	39	
361CSL1601Ⓢ	569	12	Yes	60	60	58	55	50	55	55	35	45	
361CSL1602Ⓢ	620	12	Yes	70	67	68	65	60	65	65	42	55	
362CSL1604Ⓢ	706	12	Yes	90	86	84	80	72	80	80	51	66	
362CSL1606Ⓢ	796	12	Yes	105	105	102	100	90	100	100	60	79	
363CSL1607Ⓢ	943	12	Yes	135	135	130	125	115	125	125	73	97	
431CSL6202Ⓢ	1220	12	Yes	155	155	153	151	140	151	151	96	121	
431CSL6204Ⓢ	1310	12	Yes	181	182	180	176	167	176	176	107	135	
431CSL6206Ⓢ	1415	12	Yes	215	220	220	210	191	210	210	132	166	
431CSL6208Ⓢ	1455	12	Yes	230	230	225	225	207	225	225	132	166	
432PSL6210	1685	12	Yes	280	282	283	280	265	280	280	161	201	
432PSL6212	1760	12	Yes	300	300	290	280	265	280	280	161	201	
433PSL6216	2235	12	Yes	380	380	280	375	357	375	375	193	241	
433PSL6220	2245	12	Yes	415	410	410	400	367	400	400	193	241	

MAGNA^{PLUS}**Alternate Models^③**

281PSL1502	220	12	No	11	11	11	10.5	10	10.5	10.5	6.3	8.6	
282PSL1704	270	12	②	16.5	16.5	16	16	14.5	16	16	10	14	
282PSL1705	295	12	②	21	21	20	20	18	20	20	13	17	
283PSL1706	336	12	②	27	26	26	25	23	25	25	16	21	
283PSL1707	366	12	②	33	32	31	30	27	30	30	18	25	
284PSL1708	405	12	Yes	35	35	35	35	32	35	35	20	30	
284PSL1742	436	12	Yes	40	40	40	40	37	40	40	25	32	
285PSL1700	480	12	Yes	45	45	45	45	41	45	45	28	37	
286PSL1701	600	12	Yes	60	58	56	55	50	55	55	32	42	
287PSL1702	670	12	Yes	62	61	61	60	55	60	60	36	45	

① 361 to 431 PSL models are the alternate to CSL models and have equivalent performance and dimensions.

② PMG Option available as build-up only.

③ Specialty and two bearing orders utilize these windings in place of 280 frame CSL models.

④ This chart depicts a suggested ambient and temperature rise (27°C ambient/130°C rise) that would be in accordance with the UL maximum temperature of 160°C.

Notes A, B, C, D, E, F, and G on page 44 apply to this page.

1800 RPM
NEMA Class H Insulation
DVR®2000E AVR with PMG Excitation

**Maximum kW Output at
27°C ambient and 130°C R/R
for UL2200 Applications**

**UL2200 Ratings^①
4-Pole**

**60
Hertz**

MAGNA^{MAX}DVR[®]

Base Model	Net Wt. (lbs.)	No. of Leads	60 Hz, Three Phase							60 Hz, 1 Phase		List Price
			0.8 PF Lagging							0.8 PF	1.0 PF	
			High Wye Connection					Delta	Low Wye	ZigZag		
			480 V	460 V	440 V	416 V	380 V	240 V	208 V	240 V	240 V	
431RSL4005	1280	12	155	153	146	138	122	138	138	88	110	
431RSL4007	1370	12	175	174	168	160	136	160	160	103	129	
432RSL4009	1550	12	215	215	207	200	170	200	200	129	161	
432RSL4011	1570	12	231	235	235	221	190	221	221	127	159	
432RSL4013	1600	12	250	245	240	235	200	235	235	123	154	
432RSL4015	1810	12	285	290	277	262	240	262	262	147	184	
432RSL4017	1830	12	300	291	295	287	255	287	287	158	198	
433RSL4019	2340	12	375	370	360	350	305	350	350	180	225	
433RSL4021	2365	12	405	400	390	380	315	380	380	185	231	
572RSL4024	2730	10	475	485	465	440	400	N.A.	440	N.A.	N.A.	
572RSL4025	2730	12	475	485	465	440	400	440	440	209	261	
572RSL4027	2840	12	515	515	500	475	405	475	475	227	283	
572RSL4028	3050	10	560	585	560	525	470	N.A.	525	N.A.	N.A.	
572RSL4029	3050	12	560	585	560	525	470	525	525	246	308	
572RSL4030	3110	10	600	610	590	565	485	N.A.	565	N.A.	N.A.	
572RSL4031	3110	12	600	610	590	565	485	565	565	264	330	
573RSL4032	3400	10	700	730	730	700	595	N.A.	700	N.A.	N.A.	
573RSL4033	3400	12	700	730	730	700	595	700	700	308	385	
573RSL4034	3620	10	750	785	765	725	625	725	725	330	413	
573RSL4035	3620	12	750	785	765	725	625	N.A.	725	N.A.	N.A.	
574RSL4036	4080	10	825	845	820	785	670	785	785	363	454	
574RSL4037	4080	12	825	845	820	785	670	N.A.	785	N.A.	N.A.	
574RSL4038	4240	4	920	910	875	835	705	N.A.	N.A.	N.A.	N.A.	
575RSL4044	5000	4 Bars	1060	1040	1010	975	830	N.A.	N.A.	N.A.	N.A.	
741RSL4045	5490	12	1100	1070	1030	1000	840	1000	1000	N.A.	N.A.	
740RSL4046	5200	4 Bars	1220	1190	1160	1110	945	N.A.	N.A.	N.A.	N.A.	
742RSL4048	6300	4 Bars	1300	1290	1240	1180	1030	N.A.	N.A.	N.A.	N.A.	
742RSL4049	6300	12	1300	1290	1240	1180	1030	1180	1180	N.A.	N.A.	
742RSL4050	7230	4 Bars	1500	1500	1450	1370	1160	N.A.	N.A.	N.A.	N.A.	
743RSL4052	7800	4 Bars	1750	1710	1710	1610	1480	N.A.	N.A.	N.A.	N.A.	
744RSL4054	8600	4 Bars	2000	1990	1920	1840	1590	N.A.	N.A.	N.A.	N.A.	
744RSL4056	9740	4 Bars	2210	2100	2030	1950	1790	N.A.	N.A.	N.A.	N.A.	
744RSL4058	9740	4 Bars	2320	2260	2180	2090	1950	N.A.	N.A.	N.A.	N.A.	

① This chart depicts a suggested ambient and temperature rise (27°C ambient/130°C rise) that would be in accordance with the UL maximum temperature of 160°C.
Notes A, B, C, D, E, F, and G on page 44 apply to this page.

**60
Hertz****Three Phase
Induction
Generators****240 or 480 Volts
208 or 416 Volts
480 Volts**1800 RPM
NEMA Class H Insulation
40°C Ambient**PRIMELINE® 4-Pole, One Bearing Induction Generators****240 or 480 Volts**

Base Model	Net Wt. (lbs.)	No. of Leads④	Continuous kW 80°C R/R	List Price
364TTDS17033③⑤	725	3	60	
365TTDS8771⑤	850	9	80	
431ASL1415①②	1340	9	150	
431ASL1417①②	825	12	200	
431ASL1414①②	1760	9	220	
431ASL1421①②③	1925	3	250	
431ASL1420①②	1425	9	265	
431ASL1418①②	1425	9	300	
572ASL1413①②	1925	9	400	
572ASL1414①②	2613	12	450	

208 or 416 Volts

Base Model	Net Wt. (lbs.)	No. of Leads④	Continuous kW 80°C R/R	List Price
431ASL1419①②	1025	12	150	
431ASL1416①②	1525	12	160	
431ASL1420①②	1425	9	200	
572ASL1413①②	1925	9	350	

- ① Pricing for 431 frame and 572 frame induction generators includes the conduit box, however the conduit box must be listed as a separate line item on the order.
② The 431 frame and 572 frame induction generators are constructed in synchronous generator rolled steel housings with standard generator mounting feet. The 431 and 572 frame units will accept Marathon standard SAE adapters and drive discs. Contact the factory to obtain pricing for specific customers.
③ This is a 3 lead unit, designed to operate at 480 V only.
④ Other designs available; please contact factory.
⑤ These are in motor frames and are not a standard generator frame type.
Notes C and D on page 44 apply to this page.

PRIMELINE® Two Bearing Induction Generators①③**4-Pole, 480 Volts**

Frame	Net Wt. (lbs.)	No. of Leads②	Continuous kW		List Price
			80°C R/R	105°C R/R	
254	161	3	12	14	
256	233	3	17	19	
284	346	3	25	28	
286	354	3	29	34	
324	401	3	35	40	
326	430	3	50	57	
364	720	3	65	75	
365	815	3	72	85	
404	1040	3	100	110	
405	1112	3	110	120	
444	1335	3	130	157	
445	1450	3	150	175	
447	2064	3	275	315	
505	2150	3	275	320	
508	3050	3	400	425	

6-Pole, 480 Volts

Frame	Net Wt. (lbs.)	No. of Leads②	Continuous kW		List Price
			80°C R/R	105°C R/R	
284	346	3	14	17	
286	354	3	18	21	
324	401	3	22	24	
326	430	3	25	29	
364	720	3	40	46	
365	815	3	50	55	
404	1040	3	65	75	
405	1112	3	80	88	
444	1335	3	90	100	
445	1450	3	110	125	
447	1792	3	180	200	
505	2100	3	190	220	
508	2850	3	325	350	

- ① For modifications to PRIMELINE® two bearing generators, please contact factory.
② Other designs available; please contact factory.
③ These are in motor frames and are not a standard generator frame type.
Notes C and D on page 44 apply to this page.

**PRIMELINE® Induction Generators
are now CSA Certified!**

Modification Section: Generators

All prices shown are list prices

Modification	Description	List Price	*Build To Order																																												
Adapters	Two bearing close-coupled adapters - 430 frame - 570 frame - 740 frame One bearing direct couple Lister TR2 & TS2 Engines - 250 & 280 MAGNAPLUS® fr. only Automotive adapters: GM 7.4/5.7 L, Chrysler 2.8 L																																														
Air Filters	Washable filters and pressure switch - MAGNAMAX ^{DVR®} Catalog ratings must be reduced by 5% for units equipped with filters																																														
Altitude / Ambient	See Altitude / Ambient Rating Adjustment Chart on Page 50.																																														
Bus Bar Kit	480-600 Volt (4 Bus Bars) - 430 frame - MAGNAMAX ^{DVR®} models only 480-600 Volt (4 Bus Bars) - 571-574 frame 480-600 Volt (4 Bus Bars) - 575; 740-744 frame 480-600 Volt (6 Bus Bars) - 740-744 frame 600-6600 Volt (4 Bus Bars) - 741-744 frame 600-6600 Volt (6 Bus Bars) - 741-744 frame																																														
Circuit Breakers Two Pole	Mounted and wired in generator connection box. Available with 280, 360 and 440 frame generators only. Not available with 330 frame Pancake units. ① ② <table><tr><td>Ampere</td><td>240 Volt</td><td>480 Volt</td></tr><tr><td>15 - 35</td><td>\$295</td><td>\$660</td></tr><tr><td>36 - 60</td><td>\$305</td><td>\$660</td></tr><tr><td>61 - 100</td><td>\$355</td><td>\$775</td></tr><tr><td>101 - 225</td><td>\$480</td><td>N/A</td></tr><tr><td>225 - 400</td><td>\$1,725</td><td>N/A</td></tr></table>	Ampere	240 Volt	480 Volt	15 - 35	\$295	\$660	36 - 60	\$305	\$660	61 - 100	\$355	\$775	101 - 225	\$480	N/A	225 - 400	\$1,725	N/A																												
Ampere	240 Volt	480 Volt																																													
15 - 35	\$295	\$660																																													
36 - 60	\$305	\$660																																													
61 - 100	\$355	\$775																																													
101 - 225	\$480	N/A																																													
225 - 400	\$1,725	N/A																																													
Circuit Breakers Three Pole	Mounted and wired in generator connection box. Available with 280 through 740 frames. Not available with 330 frame Pancake units. ① ② <table><tr><td>Ampere</td><td>240 Volt</td><td>480 Volt</td><td>600 Volt</td></tr><tr><td>15 - 35</td><td>\$335</td><td>\$575</td><td>\$980</td></tr><tr><td>36 - 60</td><td>\$375</td><td>\$575</td><td>\$980</td></tr><tr><td>61 - 100</td><td>\$405</td><td>\$650</td><td>\$980</td></tr><tr><td>101 - 225</td><td>\$850</td><td>N/A</td><td>\$1,625</td></tr><tr><td>226 - 250</td><td>N/A</td><td>N/A</td><td>\$2,125</td></tr><tr><td>251 - 400</td><td>\$1,725</td><td>N/A</td><td>\$2,250</td></tr><tr><td>401 - 600</td><td>N/A</td><td>N/A</td><td>\$2,880</td></tr><tr><td>601 - 800</td><td>N/A</td><td>N/A</td><td>\$3,455</td></tr><tr><td>801 - 1200</td><td>N/A</td><td>N/A</td><td>\$6,900 ③</td></tr><tr><td>1201 - 2000</td><td>N/A</td><td>N/A</td><td>\$9,900 ③</td></tr></table>	Ampere	240 Volt	480 Volt	600 Volt	15 - 35	\$335	\$575	\$980	36 - 60	\$375	\$575	\$980	61 - 100	\$405	\$650	\$980	101 - 225	\$850	N/A	\$1,625	226 - 250	N/A	N/A	\$2,125	251 - 400	\$1,725	N/A	\$2,250	401 - 600	N/A	N/A	\$2,880	601 - 800	N/A	N/A	\$3,455	801 - 1200	N/A	N/A	\$6,900 ③	1201 - 2000	N/A	N/A	\$9,900 ③		
Ampere	240 Volt	480 Volt	600 Volt																																												
15 - 35	\$335	\$575	\$980																																												
36 - 60	\$375	\$575	\$980																																												
61 - 100	\$405	\$650	\$980																																												
101 - 225	\$850	N/A	\$1,625																																												
226 - 250	N/A	N/A	\$2,125																																												
251 - 400	\$1,725	N/A	\$2,250																																												
401 - 600	N/A	N/A	\$2,880																																												
601 - 800	N/A	N/A	\$3,455																																												
801 - 1200	N/A	N/A	\$6,900 ③																																												
1201 - 2000	N/A	N/A	\$9,900 ③																																												
Conduit Box (consult Marathon for optional boxes)	Oversized conduit box - 280 MAGNAPLUS® frames Low profile conduit box - 360 MAGNAPLUS® frames Support bar for circuit breaker extension box - 430 MAGNAPLUS® frames Oversized conduit box - 430 MAGNAPLUS® frames Circuit breaker extension box - 570 through 740 frame																																														
Documentation	If required, two certified copies of production test reports, outline drawings, rotor weight & WK² and connection diagrams, and service manuals available upon receipt of purchase order.④ Decrement curves (calculated)																																														
Dripcover	IP22 standards - All frames (excluding LIMA® MAC) IP23 standards - 360 MAGNAPLUS®, 430 frame (all) IP23 standards - 570 frame IP23 standards - 740 frame																																														
Export Packaging	250, 280, & 330 frames 360 frame 430 & 440 frames 570 & 580 frames 741 & 742 frames 743 & 744 frames																																														

- Notes:
- ① All designs are intended for bottom entry (right side facing conduit box). Top entry would require the use of customer-provided trough or gutter.
 - ② The designs are for copper (only) customer conductors, with compression-installed lugs. Stacking type lugs may be required depending upon the number of customer conductors.
 - ③ Available in 570 and 740 Frame sizes (MAGNAMAX^{DVR®}) and includes box extension.
 - ④ Please allow five to ten business days from PO receipt date for drawing delivery. Production test reports are not available until after generator shipment.

Modification Section: Generators

All prices shown are list prices

Modification	Description	List Price	*Build To Order
Foot Options	Capacitor excited, frames 331 and 332 - 2 hole steel foot plate Pancake generators frames 331 through 336 - 4 hole steel foot plate Consult factory for additional options		
Hydraulic Drive	280 Frame MagnaPlus. Standard SAE A, B, or C mounting flanges are available along with shaft options of 7/8" (13 tooth spline) or 1 1/4" (14 tooth spline)		
Instrument Panel 4-Lead Single Phase Generators	Meter panel with voltmeter, ammeter and frequency meter and selector switch including current transformers. (MAGNAPLUS® frames 280, 360 and 430 only) Panel not suited for 120 V only applications.		
Instrument Panel Three Phase Generators	Meter panel with voltmeter, ammeter and frequency meter and selector switch including current transformers (not available on MAGNAMAX ^{DVR®})		
Linkboard	430 & 570 MagnaMax consists of stud and linkbar assembly for terminating generator leads in low or high wye connections.		
Pilot Shaft (for use with Cat® Engine)	Pilot diameters (3.148", 3.935", 4.723", and 5.116") Not available on 280-430 frame models		
PMG Excitation MAGNAPLUS® Units	Permanent Magnet Generator & PM300 Regulator 280, 360 & 430 frames Permanent Magnet Generator & DVR®2000E Regulator 280, 360 & 430 frames		
Space Heaters 240/120 Volt	250 & 280 frame - LIMA® MAC (250: 125 watt; 280: 150 watt) 280 & 360 frame - MAGNAPLUS® (280: 150 watt; 360: 250 watt) 360 & 440 frame - LIMA® MAC & 6 Pole SER® (360: 250 watt; 440: 350 watt) 430 & 570 frame - MAGNAMAX ^{DVR®} and MAGNAPLUS® (430: 250 watt; 570: 500 watt) 580 frame - LIMA® MAC only. (500 watt) 680 frame - LIMA® MAC only. (500 watt) 740 frame - MAGNAMAX ^{DVR®} (1000 watt) 1000 frame - MAGNAPOWER® (1250 watt)		
Special Insulation	Special insulation system consisting of multiple dips and bakes of 100% solids varnish with epoxy overcoat for harsh environmental applications. This adder may also be used for Refrigerated Rail and Reefer configurations. (Contact factory for details for these configurations). 250 & 280 frame 360 frame 440 frame Tropical /fungus insulation system consisting of epoxy overcoat and fungus proofing for moisture protection. 250 & 280 frame 360 & 440 frame 580 & 680 frame Tropical insulation (epoxy overcoat) on MAGNAMAX ^{DVR®} and MAGNAPLUS® Tropical insulation (epoxy overcoat) on LIMA® MAC Vacuum pressure impregnation (480 & 600V Random Wound MAGNAMAX ^{DVR®}) 430 frame 570 frame 740 frame Consult factory for other special insulation systems/requirements.		
Special Painting	Consult factory for available finishes		
Special Windings	Special windings are available for Pancake, MAGNAPLUS®, and MAGNAMAX ^{DVR®} products. Consult factory for ratings and pricing.		
Temperature Detectors	Consult factory for possible RTD generator rating adjustment RTDs, (2 per phase) 100 ohm platinum standard, others optional. Thermocouples, Iron Constantine, Type J Thermostats, specify N.O. or N.C. Thermistors (1 per phase) must specify operating temperature Bearing RTD, 100 ohm platinum standard, others optional - MAGNAMAX ^{DVR®} only.		
Two Bearing	Standard product for all frame sizes Generator shaft coupling not included		

Modification Section: Voltage Regulators & Accessories

All prices shown are list prices

Modification	Description	List Price
Current Boost System	CBS 305 and power current transformer for APR 63-5	
Dual Regulators	Two DVR®2000Es with change-over switch (570 & 740 MAGNAMAX ^{DVR®} only)	
Isolation/Step Down Transformer	SE350 and APR 63-5 Regulators: 312 VA, 240 V secondary, 240/480/600 V primary 250 VA, 240 V secondary, 120 V Primary (required for 120 V systems) APR 125-5, and SSR125 Regulators: 1000 VA, 120/240 V secondary, 208/240/416/480 V primary 1000 VA, 120/240 V secondary, 600 V primary 1000 VA, 120/240 V secondary, 2400/3300/4160 V primary	
Manual Voltage Control Module	MVC 300 for APR 63-5, APR 125-5, and DVR®2000E regulators MVC 108 - Used with DVR®2000E when EMI suppression to MIL-STD 461C needs to be maintained (furnished loose for mounting by others)	
Paralleling C/Ts	DVR®2000E, VR485-100 (600 V and Lower) DVR®2000E and VR485-100 (602 - 4999 V) DVR®2000E (5000 - 6600 V)	
Paralleling Module (includes C/T)	APM 2000 for SE350, APR 63-5, and APR 125-5 regulators (three phase systems only)	
Sensing Transformer	Medium voltage potential transformer used for regulator sensing only—will not support additional accessories. 15 VA up to 4160 V for DVR®2000E (Single Phase) Two 15 VA up to 4160 V for DVR®2000E (Three Phase) Consult factory for voltages greater than 4160 V.	
Voltage Adjust Rheostat	For SE350 regulators For all other regulators except DVR®2000E	
Voltage Adjust Switch	For DVR®2000E only	
Voltage Regulators List Price Adder (for substituting AVR for standard unit)	SE350 MAGNAPLUS® and Pancake No regulator - MAGNAPLUS® and Pancake VR63-4C - MAGNAPLUS® (120 Volt systems only) AVC63-4A - MAGNAPLUS® APR 63-5 - MAGNAPLUS® APR 125-5 - MAGNAPLUS® AVC 63-12B1 50/60 Hz AVC63-12B2 - 400 Hertz only DVR®2000E - All MAGNAMAX ^{DVR®} No regulator - MAGNAMAX ^{DVR®} DVR®2000EC - All MAGNAMAX ^{DVR®} (with VAR/PF controller installed) SSR125-12 - All MAGNAMAX ^{DVR®} (furnished loose for mounting by others)	
1000 Frame	1000 frame medium voltage (to 6600 V) and high voltage (to 13800 V) modifications are order specific. Consult factory with your requirements.	

Modification Section: Testing

All prices shown are list prices

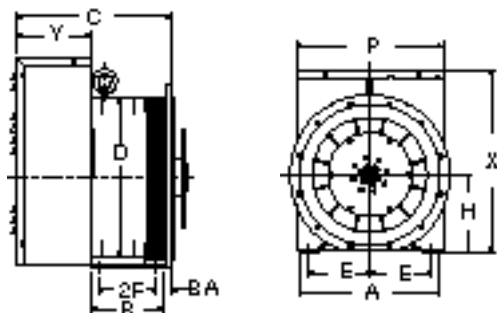
Modification	Description	List Price
Special Testing	Basic setup charge	
	MIL-STD-705B Method 410.1 Open Circuit Saturation Curve 411.1 Synchronous Impedance Curve - Short-Circuit Saturation Curve 412.1 Zero-Power Factor Saturation Curve - 1875 kVA maximum @ 480 volts 413.1 Rated Load Current Saturation Curve - 1875 kVA maximum @ 480 volts 415.0 Summation of Losses - units of 50 kW and larger 415.0 Summation of Losses - units of less than 50 kW 420.1 Short Circuit Ratio 421.1 Direct-Axis Synchronous Reactance (Xd) 422.1 Negative Sequence Reactance (X2) 423.1 Zero-Sequence Reactance (X0) 425.1 Direct-Axis Transient Reactance (X'd) 426.1 Direct-Axis Subtransient Reactance (X''d) 427.1 Direct-Axis Transient Short Circuit Time Constant (T'd) 430.1 Direct-Axis Transient Open Circuit Time Constant (T'do) 432.1 Short Circuit Time Constant of Armature Windings (T'a) 505.1 Overspeed 511.1 Voltage Regulator Range - 1875 kVA maximum @ 480 volts 601.1 Voltage Waveform (Oscillographic) - 1875 kVA maximum @ 480 volts 601.1 Voltage Waveform (Deviation Factor) - run in conjunction with 601.4 601.4 Voltage Waveform (Harmonic Analysis) - 1875 kVA maximum @ 480 volts 611.1 Inherent Voltage Droop (generator only) - 1250 kVA maximum 615.1 Inherent Voltage Regulation (generator only) - 1125 kVA maximum @ 480 volts 620.1 Voltage Unbalance with Unbalanced Load (Line-to-Neutral Load) 620.2 Voltage Unbalance with Unbalanced Load (Line-to-Line Load) 625.1 Short Circuit (Mech. Strength) - 3 phase only, 7000 amp maximum 680.1 Temperature Rise (generator only) - Heat Run: 5–100 kW 680.1 Temperature Rise (generator only) - Heat Run: 101–500 kW 680.1 Temperature Rise (generator only) - Heat Run: 501–1500 kW @ 480 volts	
Standard Testing	Winding resistance, 401.1a Insulation resistance of all windings, 301.1b High potential test on all windings, 302.1a Exciter check Regulator operation Exciter field current Voltage balance Overspeed (1 Min.)	
Witness Testing	Additional daily charge for witnessing by customer or customer's agents	

General Notes (Applicable to price on pages 1 through 40)

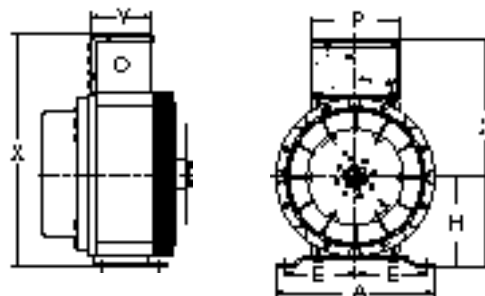
- A. All base models listed (except MAGNAPOWER®) are single bearing with two bearings available as a no-charge option. Pricing includes flexible drive discs, SAE adapter, standard voltage regulator, and full guarding. Drip covers are optional. All voltage regulators have underspeed protection, EMI filtering, and are encapsulated for moisture protection.
- B. MAGNAPLUS® and MAGNAMAX^{DVR}® products have Class H insulation. LIMA®MAC products have Class H insulation on the rotor, and Class F insulation on the stator. MAGNAPOWER® products have Class H insulation for 4160V and below, and Class F insulation for above 4160V. Pancake products have Class F insulation except for Model 334RSA3010, which is Class H insulation. Rating columns headed NEMA B, F, and H indicate that generators operated at the specified ratings will not exceed the temperature rise limitation for the specified Class of insulation specified in NEMA MG1-22.40. The rating columns do not specify the Class of insulation used in the generator's construction.
- C. The frame size for each model is the first 3 digits of the model number.
- D. All generator ratings listed in this publication are based upon temperature rises measured by the resistance method as defined by MIL-STD-705C and IEEE STD 115, Method 6.4.4. For ratings at rises as measured by embedded temperature detectors, consult Marathon.
- E. Pancake AVR and MAGNAPLUS® products are shunt-excited (non-PMG) generators. The automatic voltage regulator derives input power from the generator's output leads.
- F. MAGNAMAX^{DVR}® and MAGNAPOWER® generators incorporate a Permanent Magnet Generator (PMG) as the input power source for the voltage regulator.
- G. "CSL" models (e.g., 361CSL1600) available with same performance and list price as "PSL" models (e.g., 361PSL1600).

Dimensions in inches and (millimeters) Pancake (AVR and Capacitor)

ALL DIMENSIONS ARE APPROXIMATE: Contact factory for full dimensional data



333-336 frames – R Models



331-332 frames – R Models
331-337 frames – C Models

R and C Pancake AVR Ratings on page 15

Type	Frame Size	A	B	C	D	E	H	P	X	Y	BA	2F
Pancake R Models	331	14.0 (356)	6.25 (159)	10.5 (267)	14.0 (356)	6.25 (159)	7.95 (202)	8.0 (203)	20.0 (508)	5.2 (132)	1.17 (30)	5.0 (127)
	332	14.0 (356)	6.25 (159)	11.1 (282)	14.0 (356)	6.25 (159)	7.95 (202)	8.0 (203)	20.0 (508)	5.2 (132)	1.17 (30)	5.0 (127)
	333	14.0 (356)	6.25 (159)	13.4 (340)	14.0 (356)	6.25 (159)	7.88 (200)	15.0 (381)	18.5 (470)	6.4 (163)	1.28 (33)	5.0 (127)
	334	14.0 (356)	6.25 (159)	13.4 (340)	14.0 (356)	6.25 (159)	7.88 (200)	15.0 (381)	18.5 (470)	6.4 (163)	1.28 (33)	5.0 (127)
	335	14.0 (356)	6.25 (159)	19.5 (495)	14.0 (356)	6.25 (159)	8.64 (220)	15.0 (381)	18.5 (470)	5.1 (130)	6.57 (167)	5.0 (127)
	336	14.0 (356)	6.25 (159)	19.5 (495)	14.0 (356)	6.25 (159)	8.64 (220)	15.0 (381)	18.5 (470)	5.1 (130)	6.57 (167)	5.0 (127)

Type	Frame Size	A	B	C	D	E	H	P	X	Y	BA	2F
Pancake C Models	331	14.0 (356)	6.25 (159)	10.6 (269)	14.0 (356)	6.25 (159)	7.95 (202)	11.3 (287)	19.0 (483)	5.8 (147)	1.17 (30)	5.0 (127)
	332	14.0 (356)	6.25 (159)	11.6 (295)	14.0 (356)	6.25 (159)	7.95 (202)	11.3 (287)	19.0 (483)	5.8 (147)	1.17 (30)	5.0 (127)
	333	14.0 (356)	6.25 (159)	14.0 (356)	14.0 (356)	6.25 (159)	7.95 (202)	11.3 (287)	19.0 (483)	5.8 (147)	1.28 (33)	5.0 (127)
	334	14.0 (356)	6.25 (159)	14.4 (366)	14.0 (356)	6.25 (159)	7.95 (202)	11.3 (287)	19.0 (483)	5.8 (147)	1.28 (33)	5.0 (127)
	337	14.0 (356)	6.25 (159)	15.6 (396)	14.0 (356)	6.25 (159)	7.95 (202)	11.3 (287)	19.0 (483)	5.8 (147)	6.66 (169)	5.0 (127)

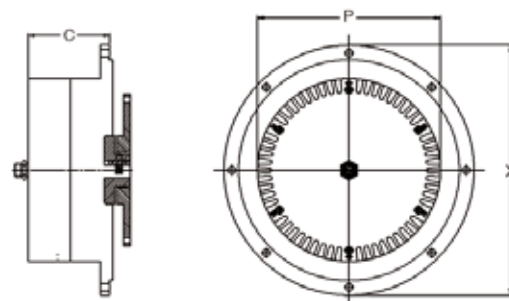
Pancake Capacitor Ratings on page 33

Capacitor	Frame Size	A	B	C	D	E	H	P	X	Y	BA	2F
Capacitor	201	8.17 (208)	4.0 (102)	9.62 (244)	10.75 (273)	3.3 (84)	6.92 (176)	8.62 (219)	15.69 (399)	4.15 (113)	2.5 (63.5)	3.0 (76)
	332	14.0 (356)	2.0 (51)	8.25 (210)	14.0 (356)	6.25 (159)	7.2 (183)	11.3 (287)	18.1 (460)	5.8 (147)	5.49 (140)	n/a

Dimensions in inches and (millimeters)

MAGNALITE

ALL DIMENSIONS ARE APPROXIMATE: Contact factory for full dimensional data

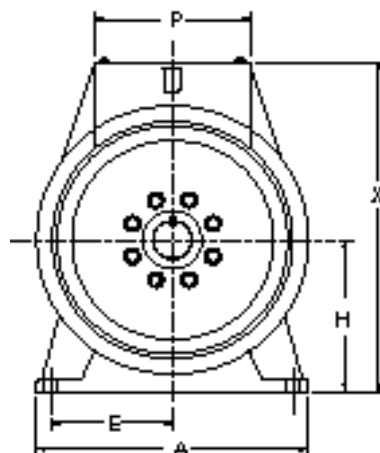
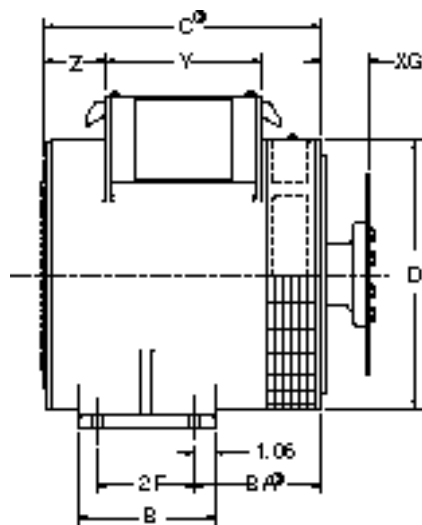


Frame Size	C	P	X
191	5.0 (127)	10.25 (260)	14.0 (356)

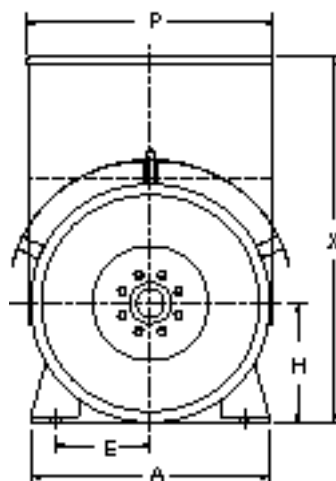
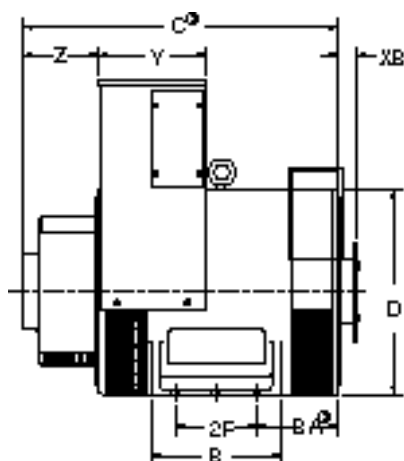
Dimensions in inches and (millimeters)

LIMA SER® LIMA®MAC

ALL DIMENSIONS ARE APPROXIMATE: Refer to Dimension Section of the Generator Catalog for full dimensional data



250 Frame



280-680 Frame

280 LIMA®MAC has split side-mount connection box.

Type	Frame Size	A	B	BA①	C①	D	E	2F	H	P	X	Y	Z
Lima SER® LIMA®MAC	250	14.00 (356)	7.00 (178)	6.56 (167)	14.31 (363)	14.00 (356)	6.25 (159)	5.00 (127)	8.00 (203)	8.00 (203)	17.31 (440)	8.00 (203)	3.18 (81)
	280	14.00 (356)	7.00 (178)	6.56 (167)	20.88 (530)	13.00 (330)	6.25 (159)	5.00 (127)	8.00 (203)	18.38 (467)	25.06 (637)	9.37 (238)	3.94 (100)
	360 ②	17.75 (451)	11.00 (279)	7.00 (178)	27.12 (689)	17.75 (451)	7.00 (178)	7.00 (178)	9.00 (229)	18.38 (467)	27.38 (695)	9.31 (236)	6.47 (164)
	361 ②	17.75 (451)	11.00 (279)	7.00 (178)	27.12 (689)	17.75 (451)	7.00 (178)	7.00 (178)	9.00 (229)	18.38 (467)	27.38 (695)	9.31 (236)	6.47 (164)
	362 ②	17.75 (451)	11.00 (279)	7.00 (178)	31.12 (793)	17.75 (451)	7.00 (178)	7.00 (178)	9.00 (229)	18.38 (467)	27.38 (695)	9.31 (236)	6.47 (164)
	440 ②	21.25 (540)	14.00 (356)	6.63 (168)	31.50 (800)	21.75 (552)	9.00 (229)	11.00 (279)	11.00 (279)	22.25 (565)	32.21 (818)	12.31 (313)	6.34 (161)
	441 ②	21.25 (540)	14.00 (356)	6.63 (168)	31.50 (800)	21.75 (552)	9.00 (229)	11.00 (279)	11.00 (279)	22.25 (565)	32.21 (818)	12.31 (313)	6.34 (161)
	580	25.75 (654)	14.00 (356)	10.00 (254)	36.62 (930)	25.75 (654)	11.50 (292)	11.00 (279)	14.50 (368)	26.13 (664)	37.12 (943)	18.31 (465)	6.34 (161)
	680	26.00 (660)	17.00 (432)	8.00 (203)	38.12 (968)	28.00 (711)	11.50 (356)	14.00 (356)	14.50 (368)	28.38 (721)	38.75 (984)	18.25 (464)	6.37 (162)

Notes: ① This dimension will vary dependent upon adaption used.

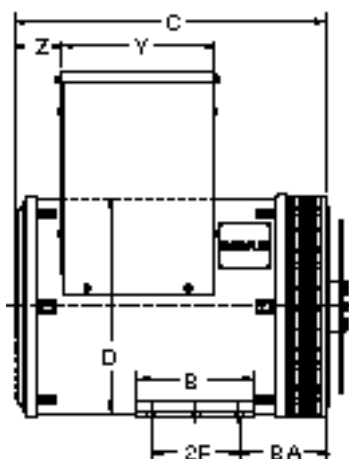
② Delco feet available on these Lima SER® designs.

③ Lima SER® not available in 580 & 680 frame sizes.

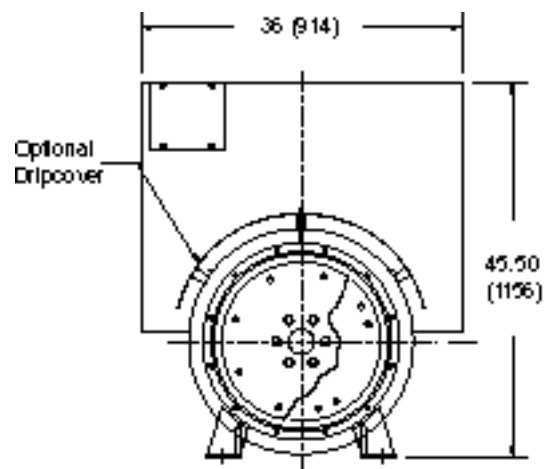
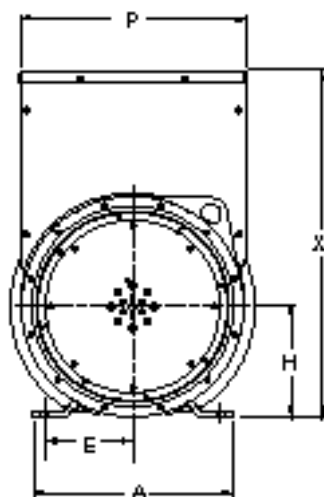
Dimensions in inches and (millimeters)

MAGNA PLUS

ALL DIMENSIONS ARE APPROXIMATE: Contact factory for full dimensional data



280-430 frame



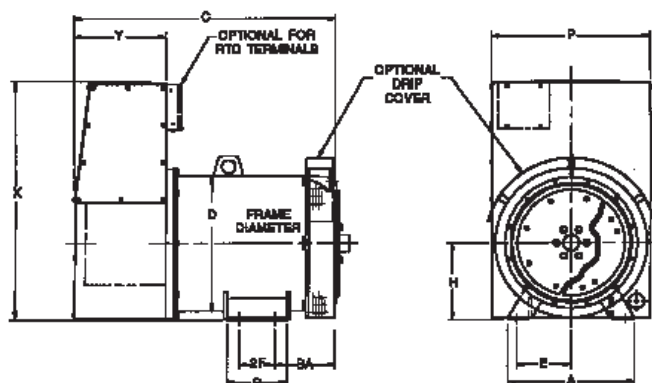
Optional Box (for 430 frame only)

Frame Size	A	B	BA	C	C with PMG	D	E	2F	H	P	X	Y	Z
281PSL	14.00 (356)	7.00 (178)	6.56 (167)	15.95 (405)	N/A	13.75 (349)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	6.86 (174)	3.50 (89)
281CSL	14.00 (356)	7.00 (178)	6.56 (167)	16.34 (415)	N/A	13.75 (349)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	6.86 (174)	3.50 (89)
282PSL	14.00 (356)	7.00 (178)	6.56 (167)	18.50 (470)	23.10 (587)	13.64 (346)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
282CSL	14.00 (356)	7.00 (178)	6.56 (167)	18.35 (466)	N/A	13.75 (349)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
283PSL	14.00 (356)	7.00 (178)	6.56 (167)	20.50 (521)	25.10 (638)	13.64 (346)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
283CSL	14.00 (356)	7.00 (178)	6.56 (167)	20.83 (529)	N/A	13.75 (349)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
284PSL	14.00 (356)	7.00 (178)	6.56 (167)	22.75 (578)	27.40 (696)	13.64 (346)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
284CSL	14.00 (356)	7.00 (178)	6.56 (167)	22.83 (580)	N/A	13.75 (349)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
285PSL	14.00 (356)	7.00 (178)	11.56 (294)	25.00 (635)	29.60 (752)	13.64 (346)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
286PSL	14.00 (356)	7.00 (178)	11.56 (294)	27.00 (686)	31.60 (803)	13.64 (346)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
287PSL	14.00 (356)	7.00 (178)	11.56 (294)	29.00 (737)	33.60 (853)	13.64 (346)	6.25 (159)	5.00 (127)	8.00 (203)	13.55 (344)	18.56 (471)	8.93 (227)	3.42 (87)
361	16.00 (406)	9.50 (241)	7.00 (178)	24.96 (634)	30.06 (764)	17.35 (441)	7.00 (178)	7.00 (178)	9.00 (229)	18.19 (462)	27.85 (707)	12.44 (316)	3.52 (89)
362	16.00 (406)	9.50 (241)	7.00 (178)	28.59 (726)	33.69 (856)	17.35 (441)	7.00 (178)	7.00 (178)	9.00 (229)	18.19 (462)	27.85 (707)	12.44 (316)	3.52 (89)
363	16.00 (406)	9.50 (241)	10.50 (267)	31.72 (806)	36.81 (935)	17.35 (441)	7.00 (178)	7.00 (178)	9.00 (229)	18.19 (462)	27.85 (707)	12.44 (316)	3.52 (89)
431	21.46 (545)	15.00 (381)	10.00 (254)	33.89 (861)	38.27 (972)	22.64 (575)	9.00 (229)	11.00 (279)	13.00 (330)	24.97 (634)	36.10 (917)	16.00 (406)	2.66 (68)
432	21.46 (545)	15.00 (381)	10.00 (254)	37.39 (950)	41.77 (1061)	22.64 (575)	9.00 (229)	11.00 (279)	13.00 (330)	24.97 (634)	36.10 (917)	16.00 (406)	2.66 (68)
433	21.46 (545)	15.00 (381)	10.00 (254)	42.39 (1077)	46.77 (1188)	22.64 (575)	9.00 (229)	11.00 (279)	13.00 (330)	24.97 (634)	36.10 (917)	16.00 (406)	2.66 (68)

Dimensions in inches and (millimeters)

MAGNAMAX^{DVR}

ALL DIMENSIONS ARE APPROXIMATE: Contact factory for full dimensional data



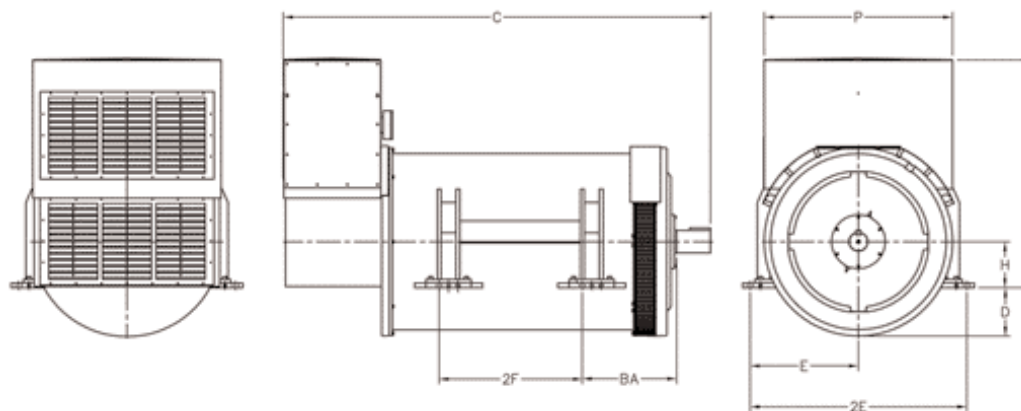
Frame Size	A	B	BA	C	D	E	2F	H	P	X	Y
431	21.00 (533)	10.00 (254)	10.00 (254)	38.40 (975)	22.64 (575)	9.00 (229)	6.00 (152)	13.00 (330)	26.51 (673)	39.77 (1010)	15.21 (386)
432	21.00 (533)	10.00 (254)	10.00 (254)	43.40 (1102)	22.64 (575)	9.00 (229)	6.00 (152)	13.00 (330)	26.51 (673)	39.77 (1010)	15.21 (386)
433	21.00 (533)	15.00 (381)	10.00 (254)	49.40 (1255)	22.64 (575)	9.00 (229)	11.00 (279)	13.00 (330)	26.51 (673)	39.77 (1010)	15.21 (386)
570	24.00 (610)	15.00 (381)	11.50 (292)	55.92 (1420)	22.64 (575)	10.00 (254)	11.00 (279)	15.50 (394)	30.77 (782)	42.64 (1083)	17.21 (437)
572	22.50 (572)	15.00 (381)	11.50 (292)	51.52 (1308)	27.64 (702)	10.00 (254)	11.00 (279)	15.50 (394)	30.77 (782)	42.64 (1083)	17.21 (437)
573	22.50 (572)	24.00 (610)	11.50 (292)	58.02 (1474)	27.64 (702)	10.00 (254)	20.00 (508)	15.50 (394)	30.77 (782)	42.64 (1083)	17.21 (437)
574	22.50 (572)	24.00 (610)	11.50 (292)	65.02 (1651)	27.64 (702)	10.00 (254)	20.00 (508)	15.50 (394)	30.77 (782)	42.64 (1083)	17.21 (437)
575	22.50 (572)	24.00 (610)	11.50 (292)	69.27 (1759)	27.64 (702)	10.00 (254)	20.00 (508)	15.50 (394)	30.77 (782)	42.64 (1083)	19.21 (488)
740	33.00 (838)	27.00 (686)	12.00 (305)	71.37 (1813)	27.64 (702)	15.00 (381)	23.00 (584)	19.00 (483)	30.77 (782)	51.45 (1307)	19.21 (488)
741	33.00 (838)	27.00 (686)	12.00 (305)	65.81 (1672)	34.24 (870)	15.00 (381)	23.00 (584)	19.00 (483)	38.02 (966)	51.45 (1307)	21.24 (539)
742	33.00 (838)	27.00 (686)	12.00 (305)	72.81 (1849)	34.24 (870)	15.00 (381)	23.00 (584)	19.00 (483)	38.02 (966)	51.45 (1307)	21.24 (539)
743	33.00 (838)	41.00 (1041)	12.00 (305)	79.31 (2014)	34.24 (870)	15.00 (381)	37.00 (940)	19.00 (483)	38.02 (966)	51.45 (1307)	21.24 (539)
744	33.00 (838)	41.00 (1041)	12.00 (305)	85.81 (2180)	34.24 (870)	15.00 (381)	37.00 (940)	19.00 (483)	38.02 (966)	51.45 (1307)	21.24 (539)

Note: Connection boxes shown are furnished as standard product. Consult factory for optional connection boxes.

Dimensions in inches and (millimeters)

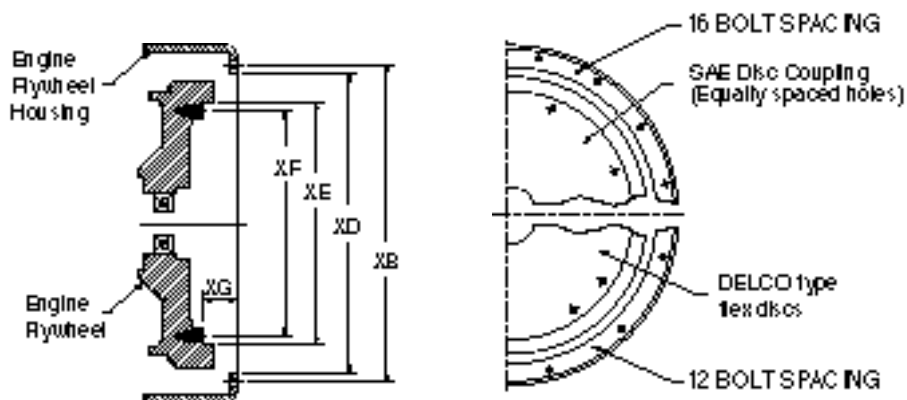
MAGNAPOWER

ALL DIMENSIONS ARE APPROXIMATE: Contact factory for full dimensional data



Frame Size	BA	C	D	E	2E	2F	H	O	P
1020	25.03 (636)	107.89 (2740)	12.78 (325)	28.75 (730)	57.50 (1460)	31.00 (787)	12.25 (311)	60.47 (1536)	50.00 (1270)
1030	25.03 (636)	113.36 (2879)	12.78 (325)	28.75 (730)	57.50 (1460)	38.00 (965)	12.25 (311)	60.47 (1536)	50.00 (1270)

Note: Connection boxes shown are furnished as standard product. Consult factory for optional connection boxes.



Technical Data

Standard SAE Dimensions

in inches and (millimeters)

Engine Flywheel Housing Dimensions				
SAE No.	XD	XB	Tapped Holes	
			Qty.	Size
00	31.000 (787)	33.50 (851)	16	1/2-13
0	25.500 (647)	26.75 (679)	16	1/2-13
1/2	23.000 (584)	24.38 (619)	12	1/2-13
1	20.125 (511)	20.88 (530)	12	7/16-14
2	17.625 (448)	18.38 (467)	12	3/8-16
3	16.125 (410)	16.88 (429)	12	3/8-16
4	14.250 (362)	15.00 (381)	12	3/8-16
5	12.375 (314)	13.12 (333)	8	3/8-16
6	10.500 (267)	11.25 (283)	8	3/8-16

Engine Flywheel Dimensions					
Size	XE	XF	XG	Tapped Holes	
				Qty.	Size
SAE 21	26.500 (673)	25.25 (641)	0 (0)	12	5/8-11
SAE 18	22.500 (572)	21.38 (543)	.62 (16)	6	5/8-11
SAE 14	18.375 (467)	17.25 (438)	1.00 (25)	8	1/2-13
SAE 11-1/2	13.875 (352)	13.12 (333)	1.56 (40)	8	3/8-16
SAE 10	12.375 (314)	11.62 (295)	2.12 (54)	8	3/8-16
SAE 8	10.375 (264)	9.62 (244)	2.44 (62)	6	3/8-16
SAE 7-1/2	9.500 (241)	8.75 (222)	1.19 (30)	8	5/16-18
SAE 6-1/2	8.500 (210)	7.88 (200)	1.19 (30)	6	5/16-18
Delco 17.75	17.755 (451)	15.50 (394)	.72 (18)	8	5/8-11
Delco 15.50	15.500 (394)	13.88 (353)	.72 (18)	8	5/8-11
Delco 12.75	12.750 (324)	11.00 (279)	0 (0)	4	1/2-13

Technical Data

Mounting Arrangement Cross Reference

Adapter Size	Coupling Size	Available in Frame Sizes											
		MAGNAPLUS® and MAGNAMAX ^{DMR}					Pancake	Lima SER® and LIMA®MAC					
		280 PLUS	360 PLUS	430 PLUS/MAX	570 MAX	740 MAX	330	250	280	360	440	580	680
6	6.5						CF						
5	6.5	Std.					Std.	Std.	Std.				
5	7.5	Std.					Std.	Std.	Std.				
5	8	Std.					Std.	Std.	Std.				
5	Lister AI	Build-up					Build-up	Build-up	Build-up				
4	6.5	Std.					Std.	Std.	Std.	Std.			
4	7.5	Std.	Std.				Std.	Std.	Std.	Std.			
4	8	Std.	Std.				Std.	Std.	Std.	Std.			
4	10	Std.	Std.				Std.	Std.	Std.	Std.	Std.		
4	Lister TS	Build-up	N.A.				Build-up	Build-up	N.A.	N.A.	N.A.		
3	8	Std.	Std.				Std.		Std.	Std.			
3	10	Std.	Std.	Std.			Std.		Std.	Std.	Std.		
3	11.5	Std.	Std.	Std.					Std.	Std.	Std.		
3	DDC 12.75	Build-up	Build-up						Std.1	Std.1			
2	10	Std. 1	Std.	Std.					Std.	Std.	Std.		
2	11.5	Std. 1	Std.	Std.					Std.	Std.	Std.		
2	DDC 15.50	CF	Build-up	Std.					Std.	Std.	Std.		
1	11.5		Std.	Std.						Std.	Std.		
1	14		Build-up	Std.	Std.					Std.	Std.	Std.	Std.
1	DDC 17.75		Build-up	Std.	Std.					Std.	Std.	Std.	Std.
1/2	DDC 17.75			Std.	Std.						Std.	Std.	Std.
1/2	14			Std.	Std.						Std.	Std.	Std.
0	DDC 17.75			Std.	Std.	Std.					Std.1	Std.	Std.
0	14			Std.	Std.						Std.1	Std.	Std.
0	18			Std.	Std.	Std.						Std.	Std.
00	18				Std.	Std.							
00	21				Std.	Std.							

Notes:

CF = Consult factory for price and availability.

Std. = Standard adaption available at no additional cost.

Std.1 = Adaption is available for standard units, but at extra cost. Consult factory for pricing.

Build-up = Requires non-standard shaft. Consult factory for lead times.

Technical Data

Environmental and Special Considerations

Once the size of the generator has been determined, it is important to review the environmental and special conditions which may affect the life of the generator. Some of the most common conditions which may require special attention are outlined below.

ALTITUDE / AMBIENT – For applications over 3300 feet elevation or where the temperature of the ventilating air to the generator exceeds 40°C (104°F), derating of the generator will be necessary. To determine the derating, use the chart below by moving vertically on the specified altitude to the horizontal line that matches the required ambient temperature, then select the derating required.

ABRASIVE DUSTS – When it is possible that airborne abrasive dusts will be introduced to the generator with the ventilating air, additional protection is recommended. Dirt, sand, volcanic ash, gravel, rock dust, etc. are typical of this type of application. Although the generator windings are protected against abrasive environments, severe conditions may warrant protection by means of baffles, housings and filters, or other suitable means. Refer to Marathon Electric for recommendations.

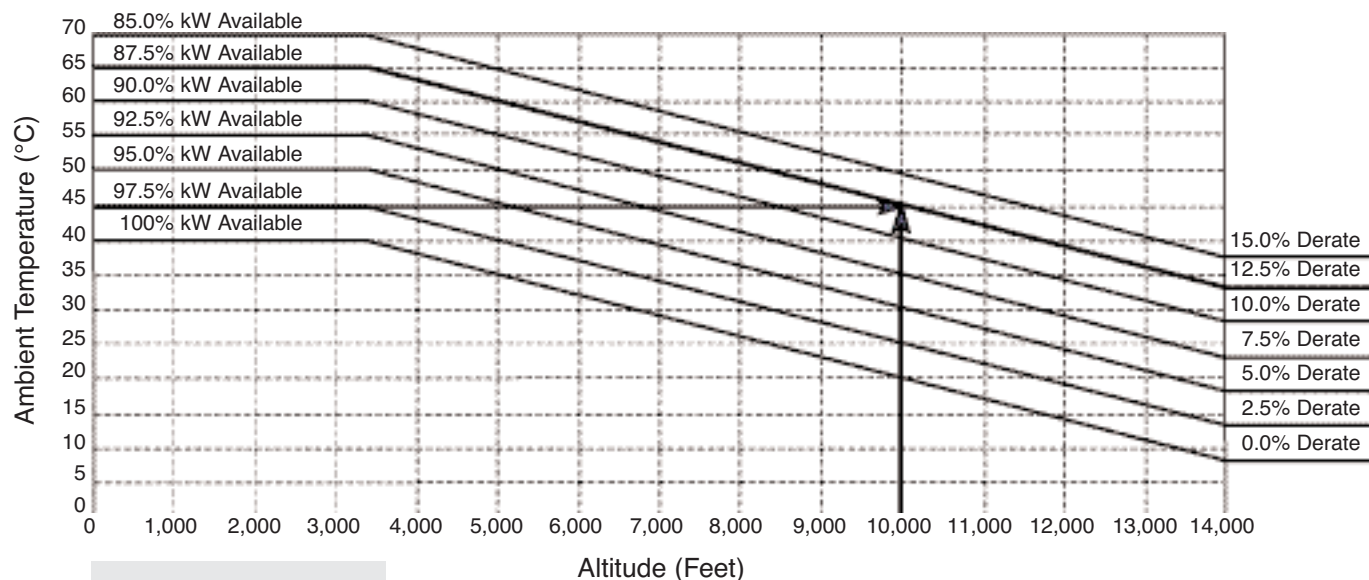
HIGH HUMIDITY AND TROPICAL CLIMATE – In moist or humid areas such as the Tropics, coastal areas, and all marine service, additional protection is recommended. Although the standard windings are humidity and moisture resistant, space heaters are required for these environments.

OUTDOOR APPLICATION – All generators for outdoor application must be protected from the elements by sheet metal housings with the proper openings for ventilation. This protection should be designed to prevent the direct contact of wind driven rain, snow, or dust with the generator. Space heaters are recommended depending on location and type of service. Refer to Marathon Electric for recommendations on enclosure requirements.

NON-LINEAR LOADING – Solid state electronic control devices which utilize thyristors or SCR firing circuits (such as variable frequency induction motor controls, precision motor speed controls, no-break powered battery chargers, etc.) can introduce high frequency harmonics which adversely affect the normal waveform of the generator. This creates additional heat in the generator stator and rotor and can cause overheating. These devices can and do present problems to non-utility power generating equipment or any limited power bus system. The problems which can occur are not limited to the generator itself, but can affect the solid state control device, the equipment it controls, other associated loads, monitoring devices or a number of combinations over the entire system.

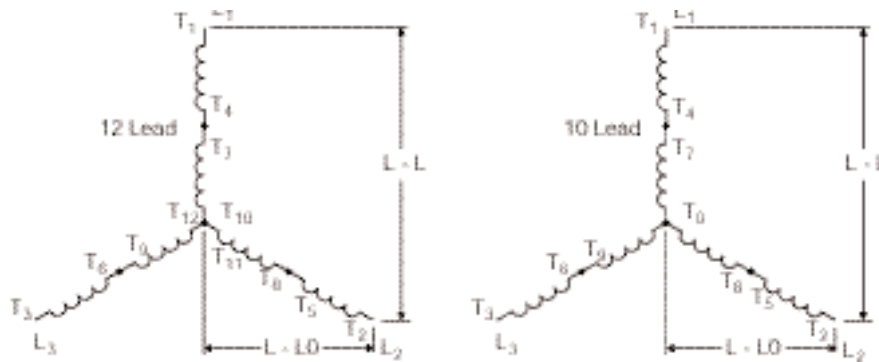
It is important that the control manufacturer, the generator manufacturer, and the systems engineer work together to insure the proper selection of all components. Please refer to Marathon for application assistance.

ALTITUDE/AMBIENT RATING ADJUSTMENT



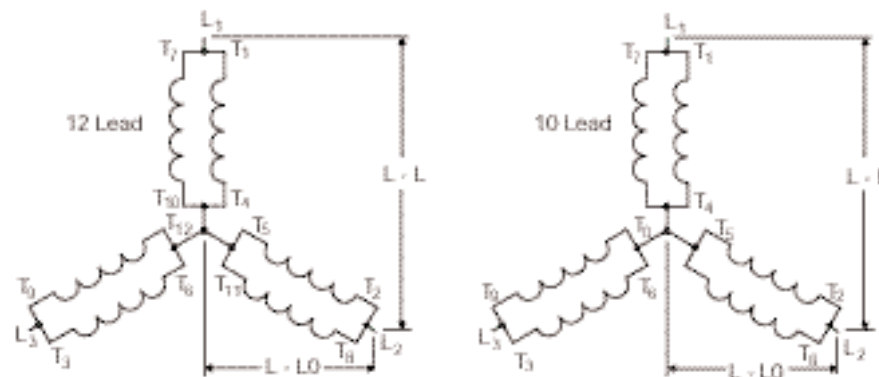
Example:
Elevation: 10,000 feet
Ambient: 45°C
Required Derate: 12.5%
Catalog Rating x .875

SERIES HIGH WYE



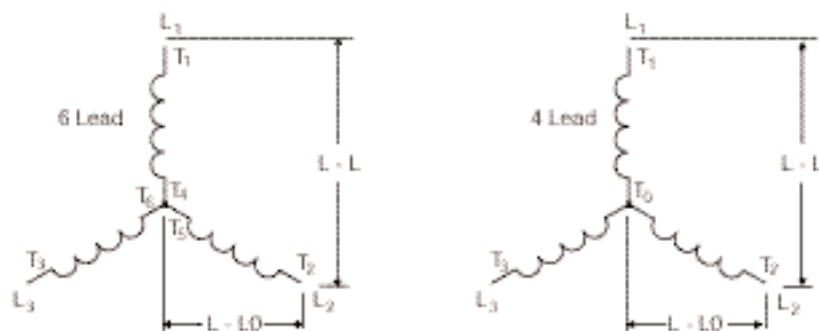
Voltage		
HZ	L-L	L-L0
60	380	219
	416	240
	440	254
	460	266
	480	277
50	380	219
	400	231
	415	240
	440	254

PARALLEL LOW WYE



Voltage		
HZ	L-L	L-L0
60	190	110
	208	120
	220	127
	230	133
	240	139
50	190	110
	200	115
	208	120
	220	127

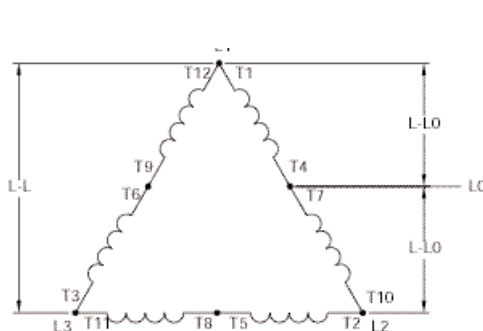
WYE



Voltage		
HZ	L-L	L-L0
60	380	219
	480	277
	600	346
	2400	1386
	3300	1905
	4160	2402
	6600	3811
	13800	7967
50	380	219
	400	231
	415	240
	3300	1905
	6600	3811
	11000	6351

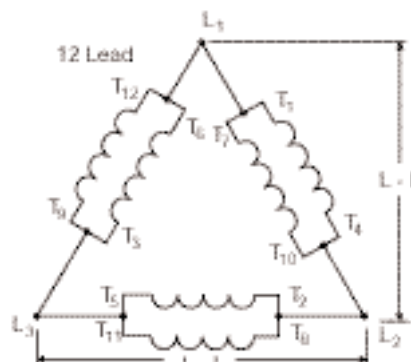
SERIES HIGH DELTA

Voltage		
HZ	L-L	L-L0
60	240	120
	277	139
50	200	100
	220	110
	240	120



PARALLEL LOW DELTA

Voltage	
HZ	L-L
60	110
	120
50	100
	110

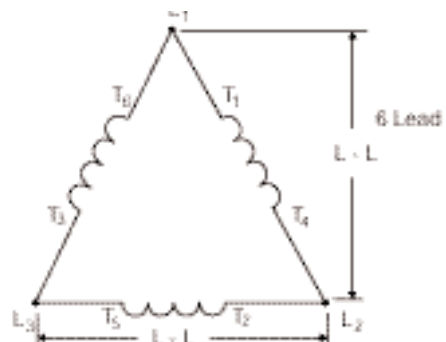


Technical Data

Connection Diagrams

DELTA

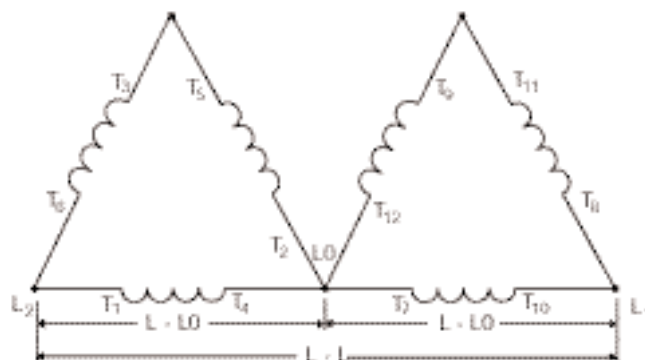
Voltage	
HZ	L-L
60	2402 7967
50	1905 6351



DOUBLE DELTA

★ Single Phase Connection

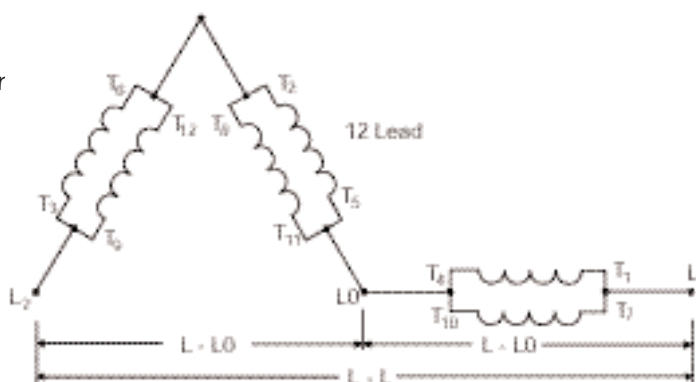
Voltage		
HZ	L-L	L-L0
60	200 220 240	100 110 120
50	220	110



PARALLEL LOW ZIGZAG

★ Single Phase Connector

Voltage		
HZ	L-L	L-L0
60	200 220 240	100 110 120
50	220	110



SERIES HIGH ZIGZAG

★ Single Phase Connection

Voltage		
HZ	L-L	L-L0
60	480	240



★ Note: Single phase kW/kVA ratings are approximately equal to 50% of the generator's three phase ratings

Technical Data

Automatic Voltage Regulator Features

Feature	STANDARD MODELS			SPECIAL (OPTIONAL) MODELS								
	SE350	DVR2000E	AVC63-12	DVR2000EC	PM300	AVC63-4A	VR63-4	VR63-4A	VR63-4C	APR 63-5	APR125-5	SSR125-12
Analog Input	No	Yes	No	Yes	No	No	No	No	No	No	No	No
Min. Exciter Field Resistance Ohms	21.0	18.0	5.25	18.0	21.0	15.0	15.0	15.0	15.0	12.6	25.0	10.0
Voltage Regulation No Load to Full Load	1.0%	0.25%	0.5%	0.25%	1.0%	1.0%	1.0%	1.0%	1.0%	0.25%	0.25%	0.25%
Underspeed Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overexcitation Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMI / RFI Filtering ①	Yes	Yes ②	Yes	Yes ②	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unit Mounted Voltage Adjust	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
Overvoltage Protection	No	Std.	No	Std.	No	No	No	No	No	Opt.	Opt.	Opt.
Encapsulated	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Paralleling ③	Opt ④	Std.	Std.	Std.	Opt ④	No	Opt ④	No	No	Opt ④	Opt ④	Opt ④
Line Drop Comp.	No	No	Yes	No	No	No	No	No	No	No	No	No
VAR/PF Controller	No	No	Opt ⑤	Yes	No	No	No	No	No	No	No	Opt ⑤
Input Power - VAC	240	PMG	120	PMG	PMG	120	240	240	120	240	240	240
Cont. Output - ADC	3.5	3.0	12.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0	12.0
Cont. Output - VDC	63	75	63	75	63	63	63	63	63	63	125	125
Sensing Input - VAC	190-240	95-600	Option B: 180-264	95-600	190-240	95-139 190-277	190-240	95-139	95-139	190-277 380-480	190-277 380-480	95-600
Sensed Voltage	Average	RMS	Average	RMS	Average	Average	Average	Average	Average	Average	Average	Average
Sensing Frequency (Hz)	50/60	50/60	Option 1: 50/60 2: 400	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50-400
Generator Current Limiting Protection	No	No	No	No	No	No	No	No	No	No	No	No
AVR Condition LEDs	No	Yes	No	Yes	No	No	No	No	No	No	No	No
3 Phase Sensing	No	Yes	Yes	Yes	No	No	No	No	No	No	No	Yes
1 Phase Sensing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loss of Sensing Protection	Yes ⑥	Yes	No	Yes	No	No	Yes	Yes	Yes ⑥	No	No	No

- Notes: ① With regulator mounted in generator conduit box.
 ② Meets MIL461C, Part 9.
 ③ Requires the addition of a paralleling current transformer.
 ④ Requires the addition of a paralleling module along with a paralleling current transformer.
 ⑤ Requires the addition of VAR/PF Module.
 ⑥ Protection is inherent. Sensing and power input share the same two leads.
 A loss of sensing (open in the sensing circuit) results in an open in the input power circuit, and the regulator will shut down.

MARATHON ELECTRIC SERVICE PARTS

Current design units only. Contact factory for older units.



Description	281-287 Frame		361-363 Frame		431-433 Frame	
	P/N	List Price	P/N	List Price	P/N	List Price
RECT. ASSY.	777079-0A		777056-0A		777062-0A	
FORWARD DIODE	730824-01		730824-01		730835-01	
REVERSE DIODE	730825-01		730825-01		730835-02	
SURGE PROTECTOR	NONE		NONE		730844-01	
BEARING (ODE)	A-7812R-30		A-7812R-60		A-7812R-60	
BEARING (DE)	A-7812R-50		CONTACT FACTORY		A-7812R-90	
FAN	716407-01				B-525510A-A	
LINKBOARD-4 POST	765059-01 ^①		NONE		NONE	
LINKBOARD	765076-01		765061-01		765064-01	
SPACE HEATER	799036-0A		799035-0A		B-527463	

MAGNAPLUS DRIVE DISC

Description	281-283 Frame		284-287 Frame		361-363 Frame		431-433 Frame	
	P/N	List Price	P/N	List Price	P/N	List Price	P/N	List Price
C-106	702325-01		702938-01		NONE		NONE	
C-107	702326-01		702512-01		702512-01		NONE	
C-108	702327-01		702513-01		702513-01		NONE	
C-110	702328-01		702514-01		702514-01		702725-01	
SP-111	702329-01		702515-01		702515-01		A-525506	
SP-114	NONE		NONE		702516-01		A-525508	

280 FRAME MAGNAPLUS (CSL1500 SERIES)

Description	281-287 Frame	
	P/N	List Price
RECT. ASSY.	2MG932001	
FORWARD DIODE	730839-01	
REVERSE DIODE	730839-02	
FAN	8MG435002	

Description	281-287 Frame	
	P/N	List Price
BEARING (ODE)	A-7812R-30	
ENDBELL (ODE)	8MG013029	
LINKBOARD	765059-01	



Description	430 Frame		570 Frame		740 Frame	
	P/N	List Price	P/N	PRICE	P/N	List Price
RECT. ASSY.	B-525528F		B-525528F	\$585	B-525528G	
FORWARD DIODE	B-525570-2		B-525570-2	\$90	B-525570-2	
REVERSE DIODE	B-525571-2		B-525571-2	\$90	B-525571-2	
SURGE PROTECTOR	B-526482-1		B-526482-1	\$110	B-526482-2	
BEARING (ODE)	A-7812R-70		A-7812R-80	\$180	A-7812R-110	
BEARING (DE)	A-7812R-90		A-7812R-90	\$225	A-7812R-110	
ENDBELL (ODE)	B-525518A-Y		B-525605A-Y	\$505	B-525739A-Y	
ENDBELL (DE)	B-525596A-Y		B-525693A-Y	\$615	B-525751A-Y	
SPACE HEATER-STD	B-525756		B-525757	\$420	B-525758	
SPACE HEATER	B-527463 ^②		NONE	N.A.	NONE	
PMG STATOR ASSY	A-525548-1		A-525548-1	\$215	A-525548-1	
PMG ROTOR ASSY	A-526816		A-526816	\$375	A-526816	
PMG CAPACITOR	A-66377-45		A-66377-45	\$20	A-66377-45	

① 281 Frame Linkboard (require 2 per unit).

② Redesign Space Heater for 6000 series 430 frame generator.

③ Contact factory for older units.

LIMA®MAC (250-280 FRAME)

Description	250 Frame		260 Frame		280 Frame	
	P/N	List Price	P/N	List Price	P/N	List Price
BRIDGE DIODE (2)	761468-01		NONE		NONE	
STAT. RECT. (4 LD)	777058-0A		NONE		NONE	
RECT. ASSY. (2 PC)	NONE		778714-0A③		778714-0A③	
RECT. ASSY. (RFR)	NONE		NONE		777086-0A	
RECT. ASSY. (OLD)	NONE		NONE		777079-0A	
F DIODE 778714-0A	NONE		730839-01		730839-01	
R DIODE 778714-0A	NONE		730839-02		730839-02	
F DIODE 777086-0A	NONE		NONE		730824-01	
R DIODE 777086-0A	NONE		NONE		730825-01	
BEARING (ODE)	A-90006R-35		A-90005R-40		CONTACT FACTORY	
BEARING (DE)	A-7811R-50		CONTACT FACTORY		A-7812R-50	

LIMA®MAC (360-580 FRAME)

Description	360 Frame		440 Frame		580 Frame	
	P/N	List Price	P/N	List Price	P/N	List Price
RECT. ASSY.	777056-0A		777056-0A		777056-0A	
FORWARD DIODE	730824-01		730824-01		730824-01	
REVERSE DIODE	730825-01		730825-01		730825-01	
BEARING (ODE)	A-7812R-60		CONTACT FACTORY		A-7811R-70	
BEARING (DE)	A-7812R-65		A-90005R-80		A-7811R-90	

332CSA (5200 SERIES) Pancake Capacitor

Description	P/N	List Price
DIODE	730825-01	
SURGE PROTECTOR	761670-01	
CAPACITOR	A-66377-49	
BEARING (ODE)	A-90006R-35	
ENDBELL (ODE)	5LHD013033	
O-RING	865869-01	
FAN	716002-01	
POT COVER	8LHD306022	

330 FRAME CSA (3000 SERIES) Pancake AVR

Description	P/N	List Price
RECT. ASSY.	5LHD675045-A	
BEARING (ODE)	A-90006R-35	
FAN	716002-01	

STANDARD MARATHON REGULATORS & FUSES

Description	P/N	List Price
SE350	761594-01	
SE350 FUSE	A-527066-1	
PM300	761597-01	
DVR2000E	D-528258	
DVR2000EC	A-528258C	
DVR FUSE	A-525698-1	
DVR FUSE HOLDER	A-525893-2	
DVR COVER	D-528465	
VR63-4A	761502-01	

Description	P/N	List Price
VR63-4C	761560-01	
APR63-5	A-512554	
APR125-5	A-513062	
AVC63-4A	761590-01	
AVC63-12B1	769812-03	
AVC63-12B2	769812-04	

All other parts, please contact your local manufacture's rep. as identified on back cover.
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