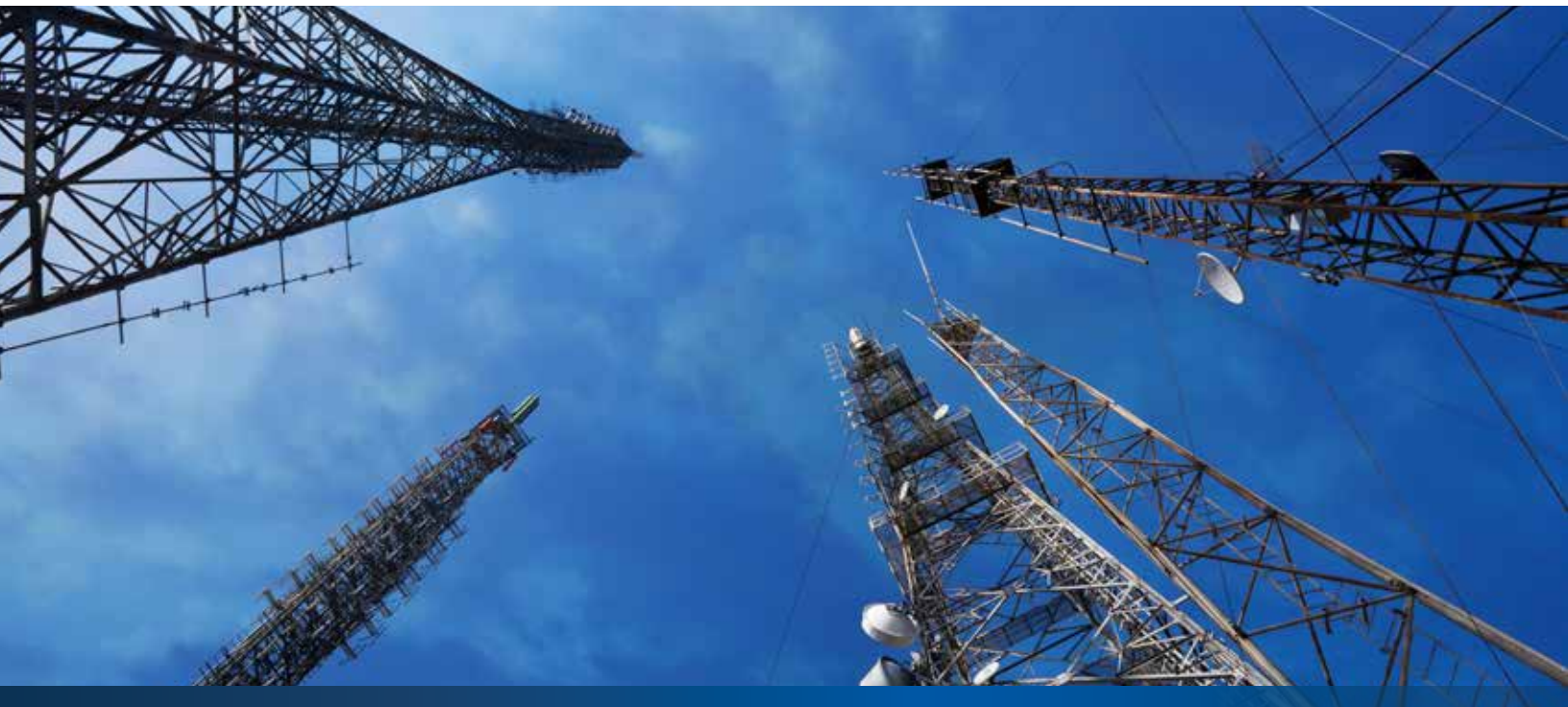




MAGNAMAX® GENERATORS

RATINGS: 118-2370 KW (60HZ), 136-2400 KVA (50HZ),

JANUARY 2025



ISO 9001:2015 Certified



MAGNAMAX®

Since its market introduction, Marathon Electric's MAGNAMAX DVR® has been a technology leader and proven performer.

The MAGNAMAX DVR generator line offers as standard a permanent magnet generator excitation system, exceptional transient performance and strong motor starting capability, and utilizes the industry's first digital voltage regulator.

Each MAGNAMAX DVR features the exclusive DVR2400 digital voltage regulator providing .25% regulation and three phase RMS sensing.

The outstanding features of the MAGNAMAX DVR makes it the ideal generator for voltage critical applications such as:

- **Telecomm Networks**
- **Hospitals**
- **Airports**
- **Commercial Buildings**
- **Computer Centers Distributed Power**

UNIROTOR CONSTRUCTIONS

- Single Piece Rotor Laminations
- Aluminum Die Cast Rotor Core

DVR2400

- Patented PMG Powered
- Digital Voltage Regulator



MAGNAMAX DVR MEETS THE DEMANDS OF TODAY'S CHANGING MARKET

- Supporting non-linear loads (UPS systems and variable frequency drive)
- Providing unprecedented voltage regulation in the presence of harmonic distortion caused by non-linear loads
- Easy access and serviceability
- Providing low reactance design which minimizes the harmonic voltage distortion caused by non-linear loads
- Constructed for extended life
- Reliable performance



PRODUCT FEATURES

PERMANENT MAGNET GENERATOR

Ensures 300% short circuit current during fault conditions and provides the regulator with input power isolated from load distortions.

UNIROTOR CONSTRUCTION

Incorporates single piece rotor laminations, a die cast rotor core and amortisseur windings into an integrated rotor assembly. The field winding is wet layer wound to the rotor assembly with thermo setting epoxy for high mechanical and electrical integrity.

DIGITAL VOLTAGE REGULATOR

Encapsulated for reliable performance in all environments. The DVR®2400 includes voltage regulation to .25%, three phase RMS sensing, adjustable volts/hertz underspeed protection, advanced engine unloading algorithms, integrated paralleling capabilities, and over-excitation /over-voltage protection. A VAR-PF controller is available as an optional feature.

LARGE CONDUIT BOX

Provides ample space for easy connections and allows load line access from all sides, top, or bottom.

EXCITER AND PMG MOUNTING

Provides easy access and serviceability. The PMG is mounted external to the generator bearing. The exciter is externally mounted on 570 and 740 frame generators.

CLASS H INSULATION SYSTEM

Utilizes an unsaturated polyester varnish for optimal insulation life and superior moisture protection.

A tropical insulation is added for increased environmental protection. A vacuum pressure impregnated insulation system is an available option.

SHIELDED HEAVY-DUTY BEARINGS

Resist contamination and give a minimum B-10 life of 40,000 hours. Regreasing provisions are available on all generators.

ENHANCED VENTILATION

Created by a high efficiency fan and optimized internal air flow patterns, maximizes heat transfer and minimizes hot spot differentials for extended winding life.

FULLY GUARDED

For operator safety and generator protection, no rotating or electrically energized parts are exposed. All openings are covered by louvers or screens.

OPTIMIZED WINDINGS

Provide low reactances and exceptional motor starting capability. The stator windings utilize a 2/3 pitch to minimize harmonic distortion and facilitate parallel operation.

DESIGN SPECS AND AGENCY APPROVALS

are important at Marathon. All MAGNAMAX DVR® units meet applicable portions of NEMA MG 1, BS5000, CSA®, IEC® and VDE requirements. Marine versions are available to meet American Bureau of Shipping® (ABS), Lloyds Register of Shipping®, Det Norske Veritas® (DNV), or Bureau Veritas® (BV) requirements.

60
Hertz**4-Pole,
Three Phase****240Y or 480Y Volts
480Y Volts****1800 RPM**
NEMA® Class H Insulation
40°C Ambient
0.8 Power Factor Lagging
Includes PMG Excitation**MAGNAMAX®****Regulator:** Includes **DVR®2400**, except 572-574 frame RSL models which include **PM500**.

Base Model	kW Rating @ Designated NEMA Rise				
	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
Random Wound Coil Designs, 12 Lead Reconnectable with Bus Bars Standard, 240Y/480Y					
572RSL6425	380	450	475	475	505
572RSL6427	440	500	515	515	560
572RSL6429	445	535	560	560	610
572RSL6431	485	575	600	600	645
573RSL6433	570	680	700	700	765
573RSL6435	585	710	750	750	810
574RSL6437	670	800	825	825	900
Random Wound Coil Designs, 4 Bars, 480Y Only					
574RSL6438	720	860	915	920	970
575RSL4044	800	975	1050	1060	1130
740RSL4046	950	1120	1200	1220	1250
741RSL4044	865	1030	1080	1100	1100
742RSL4048	1000	1200	1260	1300	1300
742RSL4050	1220	1430	1500	1500	1520
743RSL4052	1310	1600	1700	1750	1750
744RSL4054	1500	1850	1960	2000	2000
744RSL4056	1700	2010	2160	2210	2260
744RSL4057	1760	2100	2270	2320	2370
764RSL4063	2000	2250	2400	2500	2650
Form Wound Coil Designs, 4 Bars, 480Y Only					
573FSL4402	450	525	575	575	600
574FSL4404	570	680	750	750	775
742FSL4408	800	1000	1100	1125	1175
743FSL4410	900	1100	1200	1225	1275
743FSL4412	1025	1250	1325	1350	1375
744FSL4060	1200	1430	1500	1500	1500
744FSL4062	1500	1800	1900	1900	1900
744FSL4414	1630	2000	2110	2110	2110

Regulator: Includes **DVR®2400**, except 572-574 frame RSL models which include **PM500**.

Base Model	kW Rating @ Designated NEMA Rise				
	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
Random Wound Coil Designs, 12 Lead Reconnectable with Bus Bars Standard, 240Y/480Y					
572RSL6425	385	435	440	440	450
572RSL6427	400	445	470	475	505
572RSL6429	450	510	525	525	535
572RSL6431	460	525	555	565	600
573RSL6433	570	650	685	700	725
573RSL6435	590	680	720	725	725
574RSL6437	630	725	770	785	825
Random Wound Coil Designs, 4 Bars, 480Y Only					
574RSL6438	675	770	820	835	885
575RSL4044	760	890	950	975	1040
741RSL4044	810	920	970	1000	1020
740RSL4046	880	1020	1090	1110	1180
742RSL4048	950	1100	1160	1180	1250
742RSL4050	1110	1270	1340	1370	1410
743RSL4052	1400	1610	1610	1610	1620
744RSL4054	1420	1680	1800	1840	1840
744RSL4056	1520	1780	1900	1950	2000
744RSL4057	1640	1920	2050	2090	2240
764RSL4063	1730	1950	2080	2170	2300
Form Wound Coil Designs, 4 Bars, 480Y Only					
573FSL4402	390	460	500	500	520
574FSL4404	490	590	650	650	670
742FSL4408	690	870	950	980	1020
743FSL4410	780	950	1040	1060	1110
743FSL4412	890	1080	1150	1170	1190
744FSL4060	1190	1380	1440	1440	1440
744FSL4062	1510	1750	1830	1830	1830
744FSL4414	1620	1880	2010	2040	2120

Base Model	Ratings @ Designated NEMA Rise							
	Continuous				Standby			
	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
Random Wound Coil, 12 Lead Reconnectable with Bus Bars Standard, 208Y/415Y								
572RSL6425	413	330	444	355	456	365	475	380
572RSL6427	469	375	500	400	513	410	531	425
572RSL6429	500	400	531	425	544	435	563	450
572RSL6431	550	440	581	465	600	480	625	500
573RSL6433	650	520	700	560	713	570	738	590
573RSL6435	669	535	713	570	731	585	756	605
574RSL6437	731	585	788	630	800	640	838	670
Random Wound Coil Designs, 4 Bars, 415Y Only								
574RSL6438	825	660	888	710	906	725	938	750
575RSL4044	963	770	1013	810	1025	820	1056	845
741RSL4044	969	775	1038	830	1038	830	1106	885
740RSL4046	1106	885	1188	950	1219	975	1275	1020
742RSL4048	1131	905	1219	975	1219	975	1300	1040
742RSL4050	1438	1150	1538	1230	1538	1230	1638	1310
743RSL4052	1500	1200	1600	1280	1600	1280	1725	1380
744RSL4054	1725	1380	1875	1500	1875	1500	2013	1610
744RSL4056	1963	1570	2125	1700	2175	1740	2275	1820
744RSL4057	2038	1630	2225	1780	2288	1830	2400	1920
744RSL4059	2038	1630	2250	1800	2288	1830	2438	1950
764RSL4063	2113	1690	2300	1840	2400	1920	2550	2040
Form Wound Coil Designs, 4 Bars, 415Y Only								
573FSL4402	513	410	563	450	563	450	588	470
574FSL4404	663	530	738	590	738	590	763	610
742FSL4408	988	790	1075	860	1100	880	1150	920
743FSL4410	1075	860	1175	940	1200	960	1250	1000
743FSL4412	1225	980	1300	1040	1325	1060	1350	1080
744FSL4060	1425	1140	1550	1240	1550	1240	1650	1320
744FSL4062	1750	1400	1900	1520	1900	1520	2025	1620
744FSL4414	1913	1530	2050	1640	2100	1680	2188	1750
Random Wound Coil, 12 Lead Reconnectable with Bus Bars Standard, 220Y/440Y								
572RSL6425	331	265	363	290	375	300	394	315
572RSL6427	381	305	419	335	425	340	444	355
572RSL6429	363	290	406	325	419	335	444	355
572RSL6431	469	375	519	415	531	425	563	450
573RSL6433	556	445	606	485	625	500	656	525
573RSL6435	513	410	569	455	588	470	619	495
574RSL6437	569	455	631	505	650	520	688	550
Random Wound Coil Designs, 4 Bars, 440Y Only								
574RSL6438	725	580	794	635	813	650	850	680
575RSL4044	681	545	781	625	813	650	875	700
741RSL4044	806	645	888	710	888	710	963	770
740RSL4046	913	730	1000	800	1038	830	1094	875
742RSL4048	938	750	1031	825	1031	825	1113	890
742RSL4050	1350	1080	1463	1170	1463	1170	1563	1250
743RSL4052	1119	895	1263	1010	1263	1010	1388	1110
744RSL4054	1363	1090	1550	1240	1550	1240	1713	1370
744RSL4056	1575	1260	1763	1410	1825	1460	1925	1540
744RSL4057	1538	1230	1725	1380	1775	1420	1875	1500
764RSL4063	1600	1280	1788	1430	1875	1500	2000	1600
Form Wound Coil Designs, 4 Bars, 440Y Only								
573FSL4402	500	400	550	440	550	440	575	460
574FSL4404	638	510	713	570	713	570	738	590
742FSL4408	950	760	1050	840	1075	860	1125	900
743FSL4410	1050	840	1150	920	1163	930	1213	970
743FSL4412	1188	950	1263	1010	1288	1030	1313	1050
744FSL4060	1350	1080	1475	1180	1475	1180	1588	1270
744FSL4062	1575	1260	1725	1380	1725	1380	1863	1490
744FSL4414	1781	1425	1925	1540	1969	1575	2088	1670

Base Model	kW Rating @ Designated NEMA Rise				
	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
6 Lead, Form Wound Coils and VPI Insulation Systems					
573FSM4352	315	400	415	415	460
573FSM4354	350	450	500	500	530
574FSM4356	465	600	625	625	700
574FSM4358	550	710	760	760	840
741FSM4360①	730	900	925	925	930
742FSM4364①	925	1120	1200	1200	1200
742FSM4366①	1120	1360	1450	1450	1450
743FSM4368①	1240	1520	1600	1600	1610
743FSM4370①	1370	1680	1800	1800	1800
744FSM4374①	1525	1875	2050	2050	2050
744FSM4375①	1800	2150	2320	2320	2320
764FSM4377①	2000	2250	2400	2500	2600

Base Model	Ratings @ Designated NEMA Rise									
	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	
	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW
6 Lead, Form Wound Coils and VPI Insulation Systems										
573FSM4352	350	280	425	340	456	365	469	375	488	390
573FSM4354	388	310	475	380	519	415	531	425	550	440
574FSM4356	500	400	625	500	663	530	681	545	706	565
574FSM4358	588	470	731	585	788	630	806	645	838	670
741FSM4360①	769	615	913	730	981	785	981	785	1038	830
742FSM4364①	963	770	1156	925	1250	1000	1250	1000	1325	1060
742FSM4366①	1163	930	1400	1120	1500	1200	1500	1200	1600	1280
743FSM4368①	1300	1040	1550	1240	1675	1340	1675	1340	1788	1430
743FSM4370①	1425	1140	1750	1400	1900	1520	1900	1520	2050	1640
744FSM4374①	1525	1220	1813	1450	2000	1600	2000	1600	2188	1750
744FSM4375①	1750	1400	2050	1640	2275	1820	2338	1870	2463	1970
764FSM4377①	1875	1500	2250	1800	2500	2000	2563	2050	2688	2150

① All 740, 760 and 1000 frame generators on this page have 100 ohm platinum winding RTDs as standard equipment.

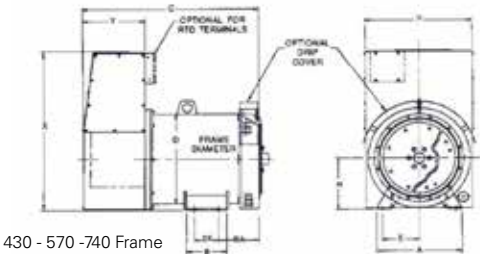
*NEMA is a trademark or tradename of National Electrical Manufacturers Association and is not owned by or under the control of Marathon Electric LLC

Dimensions

in inches and (millimeters)

All dimensions are approximate. Contact Marathon Electric for full dimensional data.





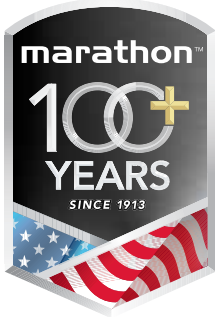
Frame size	A	B	BA	C	D	E	2F	H	P	X	Y	MAX Net Wgt. lbs. (kg)
431	21.00 (533)	10.00 (254)	10.00 (254)	38.40 (975)	22.64 (575)	9.00 (229)	6.00 (152)	13.00 (330)	26.51 (673)	39.77 (1010)	15.21 (386)	1370 (623)
432	21.00 (533)	10.00 (254)	10.00 (254)	43.40 (1102)	22.64 (575)	9.00 (229)	6.00 (152)	13.00 (330)	26.51 (673)	39.77 (1010)	15.21 (386)	1830 (832)
433	21.00 (533)	10.00 (254)	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)	2365 (1075)
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)	3110 (1411)
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)	3620 (1642)
574	22.50 (533)	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)	4240 (1923)
575	22.50 (533)	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)	5000 (2268)
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)	5200 (2359)
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)	5490 (2490)
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)	6300 (2858)
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)	7800 (3538)
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)	9740 (4418)

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



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The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer.

To view our Standard Terms and Conditions of Sale, please visit <https://www.marathonelectric.com> (which may redirect to other website locations based on product family).

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