mecc alte

POWER FROM WITHIN

RATINGS BOOK

TECHNICAL GUIDE

GUIDA TECNICA
POTENZE

Contents

ECO & ECP Brushless Alternators with AVR 50 or 60Hz 1Phase or 3Phase

4 Pole Industrial | ECO & ECP /4

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mecc alte MARINE

ECO & ECP Brushless Alternator with AVR 50 or 60Hz 1Phase or 3Phase

4 Pole Marine | ECO & ECP

For marine Alternator Range please refer to Marine Brochure

mecc alte Power Products

Power Products Brushless Alternator with AVR

1-5,000kVA | Medium or High Voltage

For Power Products Alternator Range please refer to Power Products Quick Selection Guide

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ECO & ECP Brushless Alternators with AVR 50 or 60Hz 1Phase or 3Phase

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Additional Information

Rating Definitions

Emergency Standby Power (ESP)

Emergency standby power is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers.

Limited-time running power (LTP)

Limited-time running power is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers.

The 10% overload is not available at ESP and LTP ratings.

In the 'Ratings Book' you can find ESP or LTP ratings for:

- **150°/40°**: Peak continuous ratings according to ISO8528-3.
- **163°/27°**: Emergency peak continuous rating, not defined in ISO specification. Suitable for stand-by sizing only.

Prime Rated Power (PRP)

Prime power is defined as being the maximum power which a generating set is capable of delivering continuously while supplying a variable electrical load with an average load ≤70%, when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. A 10% overload power is permitted for a period of one hour with or without interruptions, within 6 hours of operation; in these conditions the generator insulation system can age thermally faster.

Continuous Operating Power (COP)

Continuous power is defined as beign the maximum power which the generating set is capable of delivering continuously while supplying a constant electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. Overload on this rating is not allowed.

In the 'Ratings Book' you can find PRP or COP ratings for:

- **80°/40°**: this condition is equivalent to Class B temperature rise.
- **105°/40°**: this condition is equivalent to Class F temperature rise.
- **125°/40°**: this condition is equivalent to Class H temperature rise.

	Emergency Standby Power (ESP)	Limited-Time Running Power (LTP)	Prime Rated Power (PRP)	Continuous Operating Power (COP)
Duty Cycle (EN 60034-1)	S10	S10	S1	S1
Annual operating hours	≤ 200 hours	≤ 500 hours	Unlimited	Unlimited
Load Type	Variable	Undefined	Variable	Constant
Average Load	≤ 70%	≤ 100%	≤ 70%	≤ 100%
Overload	No	No	10% 1hour/6hours	No

Dynamic Data Support

Please note, for the very latest ratings, you are advised to go to the Mecc Alte website **www.meccalte.com**

Here you will find our dynamic technical data sheet builder, where you can create your own bespoke data sheet. Following a simple step-by-step process, you can get the information in a format that matches your application and requirement. Picking from a number of variances, you are guided through selection of:

- Frequency
- Winding
- Phase Number
- Voltage
- Ambient Temperature
- Temperature Rise
- Altitude
- International Protection (IP) Level

After selecting your chosen data, the data is automatically calculated and you are emailed a customised data sheet showing performance at your specified variants.

DDS
Dynamic Data Support

Altitude Derations/Environmental

Temperature and Altitude

Temperature and altitude – individually or combined, have an effect on the generator power available. Temperature may be considered as both the air inlet to the generator and also the ambient air around the generator. When the ambient air or air entering the generator exceeds 40°C, or 104° F, it becomes necessary to derate the output of the generator.

The chart below gives the recommended amount to adjust for the higher temperatures.

Higher altitudes also require a derate, specifically when it exceeds 3300 ft., or 1000 Meters. Again, please refer to the Altitude Deration Chart below to determine the necessary derate.

Altitude & Ambient Temperature Deration Coefficients

	Ambient Temperature (C°)					
Altitude (meters)	**25**	**40**	**45**	**50**	**55**	**60**
≤ 1000	1.07	1	.96	.93	.91	.89
> 1000 ≤ 1500	1.01	.96	.92	.89	.87	.84
> 1500 ≤ 2000	.96	.91	.87	.84	.83	.79
> 2000 ≤ 3000	.90	.85	.81	.78	.76	.73
> 3000 ≤ 4000	.84	.78	.75	.73	.70	.68
> 4000 ≤ 5000	.78	.72	.69	.67	.65	.62
> 5000 ≤ 6000	.70	.65	.63	.61	.58	.55

Environmental Concerns

Generators are often exposed to harmful airborne pollutants, like sand and saltwater which may require some form of protection to reduce or eliminate these harmful agents. Common elements like dirt, gravel or rock dust can create abrasive and potentially damaging effects on the windings of the generator. While the addition of filters, baffles, or housings will certainly help extend the life of the protective insulation, it may be equally effective to overcoat the windings at point of manufacture. It is also extremely important to recognize that filters and other devices can affect the airflow through the generator and create additional heat in the windings. It is also important to understand that the use of filters requires a strict maintenance regime.

Mecc Alte uses premium class H insulation material. Impregnation processes are achieved with the latest impregnation technologies, like Vacuum Pressure Impregnation (VPI) or with the use of dedicated roll and dip or trickle machines. This impregnation quality process is perfect for the vast majority of applications, however in order to achieve the same results in insulation reliability when environmental or operating conditions are demanding, it is possible to consider one of the additional protection systems offered by Mecc Alte. Please refer to our separate Technical guide: Insulation Protection Systems for further guidance on our; standard, standard+, grey, grey+ and total+ systems. Please note on some specific models a slight power de-rate is considered when the total systems are applied.

Please consult your Mecc Alte Representative for application reviews and recommendations.

Humidity and Moisture

Another common enemy of the insulation system is high humidity, salt air and moisture. While the windings are certainly protected against these conditions, space heaters can be added insurance to promote long life and trouble free operation. The location of the unit and operating conditions with proper ventilation are both important considerations when determining what protection is required. Once again, please consult your Mecc Alte Representative for assistance in selecting proper protection and modifications.

Altitude Derations/Environmental

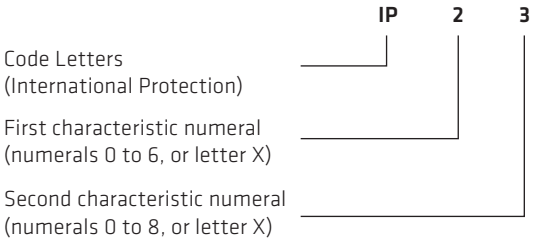
Ingress Protection IP Ratings

International Protection IP Ratings

The EN60034-5 applies to the classification of degrees of protection provided by enclosures for rotating electrical machines. The object of EN60034-5 is to describe:

- Definitions for standard degrees of protection provided by enclosures applicable to rotating electrical machines as regards:
  1. protection of persons against contacts with or approach to live parts and against contact with moving parts (other than smooth rotating shafts and the like) inside the enclosure and protection of the machine against ingress of solid foreign objects;
  2. protection of machines against the hamful effects due to the ingress of water;
- Designations for these protective degrees.
- Tests to be performed to check that machines meet the requirements of this standard.

The designation used for the degree of protection consists of the letters IP followed by two characteristic numerals signifying conformity:



When it is required to indicate a degree of protection by only one characteristics numeral, the omitted numeral shall be replaced by the letter X, for example IPX5 or IP2X.

Additional information may be indicated by a supplementary letter following the second characteristics numeral. If more than one letter is used, the alphabetic sequence shall apply.

In special applications (such as machines with open circuit cooling for ship deck installation with air inlet and outlet openings closed during standstill) numerals may be followed by a letter indicating whether the protection against harmful effects due to ingress of water was verified or tested for the machine not running (letter S) or the machine running (letter M). In this case the degree of protection in either state of the machine shall be indicated, for example IP55S/IP20M.

The absence of the letters S and M shall imply that the intended degree of protection will be provided under all normal conditions of use.

First characteristic numeral

IP	Protection
0X	Non-protected machine
1X	Solid objects greater than 50mm
2X	Solid objects greater than 12mm
3X	Solid objects greater than 2.5mm
4X	Solid objects greater than 1mm
5X	Dust-protected

Second characteristic numeral

IP	Protection
X0	Non-protected machine
X1	Dripping water
X2	Dripping water when tilted up to 15°
X3	Spraying water
X4	Splashing water
X5	Water jets
X6	Heavy seas
X7	Effects of immersion
X8	Continuous submersion

Mecc Alte offers IP23 across its industrial range. Upgrades are available such as IP23 DP, or upwards; in fact, the whole 4 pole industrial range can be upgraded to IP45 with the fitting of additional IP filter kits. However, when protecting against ingress, the airflow and cooling is impacted.

All information are available in our IP Bulletin:
https://www.meccalte.com/downloads/MA0605_Bulletin_IP.pdf

AVR Controlled Ratings 3ph 400V 50Hz 1500rpm

4 Pole | 50Hz | 3Phase

Voltage: 400 | Standard Winding - 12 Lead

RPM: 1500

Insulation: Class H

FOUR POLE

50 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]
ECP3 1S4 C	59	12	DSR	7	6.8	**6.5**	6	5.2
ECP3 2S4 C	65	12	DSR	8.8	8.3	**8**	7.5	6.4
ECP3 1L4 C	79	12	DSR	11.8	11.4	**11**	10	8.8
ECP3 2L4 C	87	12	DSR	14.5	14	**13.5**	12.5	10.8
ECP3 3L4 C	93	12	DSR	16	15.5	**15**	14	12
ECP28 1VS4 C	73	12	DSR	8.2	7.7	**7.5**	6.7	6
ECP28 2VS4 C	79	12	DSR	11	10.3	**10**	9.1	8
ECP28 1S4 C	87	12	DSR	13.7	13	**12.5**	11.6	10
ECP28 2S4 C	91	12	DSR	16.5	15.4	**15**	14.1	12
ECP28 3S4 C	97	12	DSR	19.2	18	**17.5**	16.5	14
ECP28 M4 C	106	12	DSR	22	20.5	**20**	18.5	16
ECP28 L4 C	122	12	DSR	27.5	25.5	**25**	23	20
ECP28 VL4 C	142	12	DSR	33	30.5	**30**	26	24
ECP32 1S4 C	153	12	DSR	41	39	**37.5**	35	30
ECP32 2S4 C	165	12	DSR	50	48.7	**45**	41	36
ECP32 1M4 C	186	12	DSR	55	52.5	**50**	48	40
ECP32 2M4 C	212	12	DSR	68.8	65	**62.5**	59.5	50
ECP32 1L4 C	244	12	DSR	82.5	78	**75**	67	60
ECP32 2L4 C	252	12	DSR	91	85	**82.5**	73.2	66
ECP34 1S4 C	302	12	DSR	96	93	**87.5**	79	70
ECP34 2S4 C	349	12	DSR	110	105	**100**	90	80
ECP34 1M4 C	370	12	DSR	137	132	**125**	112	100
ECP34 2M4 C	388	12	DSR	148	143	**135**	121	108
ECP34 1L4 C	423	12	DSR	165	158	**150**	136	120
ECP34 2L4 C	440	12	DSR	181	174	**165**	149	132
ECO38 1S4 C	530	12	DSR	196	188	**180**	170	144
ECO38 2S4 C	573	12	DSR	220	211	**200**	185	160
ECO38 1M4 C	602	12	DSR	250	237	**225**	207	180
ECO38 2M4 C	692	12	DSR	275	264	**250**	230	200
ECO38 1L4 C	790	12	DSR	330	315	**300**	275	240
ECO38 2L4 C	930	12	DSR	370	360	**350**	320	280
ECO40 1S4 C	1049	12	DER-1/A	440	417	**400**	370	320
ECO40 2S4 C	1133	12	DER-1/A	491	468	**450**	410	360
ECO40 3S4 C	1208	12	DER-1/A	546	521	**500**	450	400
ECO40 1L4 C	1323	12	DER-1/A	601	567	**550**	500	440
ECO40 2L4 C	1458	12	DER-1/A	675	645	**625**	564	500
ECO40 3L4 C	1536	12	DER-1/A	735	700	**680**	630	544
ECO40 VL4 C	1752	12	DER-1/A	825	777	**750**	690	600
ECO43 1S4 A	1920	12	DER-1/A	900	860	**820**	750	655
ECO43 2S4 A	2140	12	DER-1/A	1016	975	**930**	850	744
ECO43 1M4 A	2275	12	DER-1/A	1125	1070	**1025**	950	820
ECO43 2M4 A	2370	12	DER-1/A	1250	1200	**1150**	1050	920
ECO43 2L4 A	2700	12	DER-1/A	1420	1358	**1300**	1200	1040
ECO43 VL4 A	2980	12	DER-1/A	1540	1500	**1400**	1280	1120
ECO46 1S4 A	3005	12	DER-1/A	1650	1552	**1500**	1350	1200
ECO46 1.5S4 A	3375	12	DER-1/A	1800	1700	**1650**	1480	1320
ECO46 2S4 A	3560	12	DER-1/A	1944	1863	**1800**	1600	1440
ECO46 1L4 A	3805	12	DER-1/A	2268	2173	**2100**	1900	1680
ECO46 1.5L4 A	4255	12	DER-1/A	2500	2380	**2300**	2050	1840
ECO46 2L4 A	4375	12	DER-1/A	2700	2588	**2500**	2250	2000
ECO46 VL4 A	5120	12	DER-1/A	3024	2899	**2800**	2500	2240

115 Δ / 200 人 / 230 Δ / 400 人 Volts

230 Δ / 400 人 / 460 Δ / 800 人 Volts

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

4 Pole | 50Hz | 3Phase

Voltage: 380 | Standard Winding - 12 Lead

RPM: 1500

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 0.8 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	7	6.8	**6.5**	6	5.2	110 Δ / 190 人 / 220 Δ / 380 人 Volts
ECP3 2S4 C	65	12	DSR	8.8	8.3	**8**	7.5	6.4	
ECP3 1L4 C	79	12	DSR	11.8	11.4	**11**	10	8.8	
ECP3 2L4 C	87	12	DSR	14.5	14	**13.5**	12.5	10.8	
ECP3 3L4 C	93	12	DSR	16	15.5	**15**	14	12	
ECP28 1VS4 C	73	12	DSR	8.2	7.7	**7.5**	6.7	6	
ECP28 2VS4 C	79	12	DSR	11	10.3	**10**	9.1	8	
ECP28 1S4 C	87	12	DSR	13.7	13	**12.5**	11.6	10	
ECP28 2S4 C	91	12	DSR	16.5	15.4	**15**	14.1	12	
ECP28 3S4 C	97	12	DSR	19.2	18	**17.5**	16.5	14	
ECP28 M4 C	106	12	DSR	22	20.5	**20**	18.5	16	
ECP28 L4 C	122	12	DSR	27.5	25.5	**25**	23	20	
ECP28 VL4 C	142	12	DSR	33	30.5	**30**	26	24	
ECP32 1S4 C	153	12	DSR	41	39	**37.5**	35	30	
ECP32 2S4 C	165	12	DSR	50	48.7	**45**	41	36	
ECP32 1M4 C	186	12	DSR	55	52.5	**50**	48	40	
ECP32 2M4 C	212	12	DSR	68.8	65	**62.5**	59.5	50	
ECP32 1L4 C	244	12	DSR	82.5	78	**75**	67	60	
ECP32 2L4 C	252	12	DSR	91	85	**82.5**	73.2	66	
ECP34 1S4 C	302	12	DSR	96	93	**87.5**	79	70	
ECP34 2S4 C	349	12	DSR	110	105	**100**	90	80	
ECP34 1M4 C	370	12	DSR	137	132	**125**	112	100	
ECP34 2M4 C	388	12	DSR	148	143	**135**	121	108	
ECP34 1L4 C	423	12	DSR	165	158	**150**	136	120	
ECP34 2L4 C	440	12	DSR	176	169	**160**	144	128	
ECO38 1S4 C	530	12	DSR	196	188	**180**	170	144	
ECO38 2S4 C	573	12	DSR	220	211	**200**	185	160	
ECO38 1M4 C	602	12	DSR	250	237	**225**	207	180	
ECO38 2M4 C	692	12	DSR	275	264	**250**	230	200	
ECO38 1L4 C	790	12	DSR	330	315	**300**	275	240	
ECO38 2L4 C	930	12	DSR	370	360	**350**	320	280	
ECO40 1S4 C	1049	12	DER-1/A	440	417	**400**	370	320	220 Δ / 380 人 / 440 Δ / 760 人 Volts
ECO40 2S4 C	1133	12	DER-1/A	491	468	**450**	410	360	
ECO40 3S4 C	1208	12	DER-1/A	546	521	**500**	450	400	
ECO40 1L4 C	1323	12	DER-1/A	601	567	**550**	500	440	
ECO40 2L4 C	1458	12	DER-1/A	675	654	**625**	564	500	
ECO40 3L4 C	1536	12	DER-1/A	735	700	**680**	630	544	
ECO40 VL4 C	1752	12	DER-1/A	825	777	**750**	690	600	
ECO43 1S4 A	1920	12	DER-1/A	900	860	**820**	750	655	
ECO43 2S4 A	2140	12	DER-1/A	1016	975	**930**	850	744	
ECO43 1M4 A	2275	12	DER-1/A	1038	992	**950**	870	760	
ECO43 2M4 A	2370	12	DER-1/A	1250	1200	**1150**	1050	920	
ECO43 2L4 A	2700	12	DER-1/A	1420	1358	**1300**	1200	1040	
ECO43 VL4 A	2980	12	DER-1/A	1540	1500	**1400**	1280	1120	
ECO46 1S4 A	3005	12	DER-1/A	1650	1552	**1500**	1350	1200	
ECO46 1.5S4 A	3375	12	DER-1/A	1800	1700	**1650**	1480	1320	
ECO46 2S4 A	3560	12	DER-1/A	1944	1863	**1800**	1600	1440	
ECO46 1L4 A	3805	12	DER-1/A	2268	2173	**2100**	1900	1680	
ECO46 1.5L4 A	4255	12	DER-1/A	2500	2380	**2300**	2050	1840	
ECO46 2L4 A	4375	12	DER-1/A	2700	2588	**2500**	2250	2000	
ECO46 VL4 A	5120	12	DER-1/A	2916	2795	**2700**	2400	2160	

FOUR POLE

50 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

4 Pole | 50Hz | 3Phase

Voltage: 415 | Standard Winding - 12 Lead

RPM: 1500

Insulation: Class H

FOUR POLE

50 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	7	6.8	**6.5**	6	5.2	120 Δ Δ / 208 人 / 240 Δ / 415 人 Volts
ECP3 2S4 C	65	12	DSR	8.8	8.3	**8**	7.5	6.4	
ECP3 1L4 C	79	12	DSR	11.8	11.4	**11**	10	8.8	
ECP3 2L4 C	87	12	DSR	14.5	14	**13.5**	12.5	10.8	
ECP3 3L4 C	93	12	DSR	16	15.5	**15**	14	12	
ECP28 1VS4 C	73	12	DSR	8.2	7.7	**7.5**	6.7	6	
ECP28 2VS4 C	79	12	DSR	11	10.3	**10**	9.1	8	
ECP28 1S4 C	87	12	DSR	13.7	13	**12.5**	11.6	10	
ECP28 2S4 C	91	12	DSR	16.5	15.4	**15**	14.1	12	
ECP28 3S4 C	97	12	DSR	19.2	18	**17.5**	16.5	14	
ECP28 M4 C	106	12	DSR	22	20.5	**20**	18.5	16	
ECP28 L4 C	122	12	DSR	27.5	25.5	**25**	23	20	
ECP28 VL4 C	142	12	DSR	33	30.5	**30**	26	24	
ECP32 1S4 C	153	12	DSR	41	39	**37.5**	35	30	
ECP32 2S4 C	165	12	DSR	46	45	**42**	39	34	
ECP32 1M4 C	186	12	DSR	55	52.5	**50**	48	40	
ECP32 2M4 C	212	12	DSR	68.8	65	**62.5**	59.5	50	
ECP32 1L4 C	244	12	DSR	82.5	78	**75**	67	60	
ECP32 2L4 C	252	12	DSR	91	85	**82.5**	73.2	66	
ECP34 1S4 C	302	12	DSR	96	93	**87.5**	79	70	
ECP34 2S4 C	349	12	DSR	110	105	**100**	90	80	
ECP34 1M4 C	370	12	DSR	137	132	**125**	112	100	
ECP34 2M4 C	388	12	DSR	148	143	**135**	121	108	
ECP34 1L4 C	423	12	DSR	165	158	**150**	136	120	
ECP34 2L4 C	440	12	DSR	181	174	**165**	149	132	
ECO38 1S4 C	530	12	DSR	196	188	**180**	170	144	
ECO38 2S4 C	573	12	DSR	220	211	**200**	185	160	
ECO38 1M4 C	602	12	DSR	250	237	**225**	207	180	
ECO38 2M4 C	692	12	DSR	275	264	**250**	230	200	
ECO38 1L4 C	790	12	DSR	330	315	**300**	275	240	
ECO38 2L4 C	930	12	DSR	370	360	**350**	320	280	
ECO40 1S4 C	1049	12	DER-1/A	440	417	**400**	370	320	240 Δ Δ / 415 人 / 480 Δ / 830 人 Volts
ECO40 2S4 C	1133	12	DER-1/A	491	468	**450**	410	360	
ECO40 3S4 C	1208	12	DER-1/A	546	521	**500**	450	400	
ECO40 1L4 C	1323	12	DER-1/A	590	557	**540**	490	432	
ECO40 2L4 C	1458	12	DER-1/A	675	645	**625**	564	500	
ECO40 3L4 C	1536	12	DER-1/A	735	700	**680**	630	544	
ECO40 VL4 C	1752	12	DER-1/A	825	777	**750**	690	600	
ECO43 1S4 A	1920	12	DER-1/A	900	860	**820**	750	655	
ECO43 2S4 A	2140	12	DER-1/A	1016	975	**930**	850	744	
ECO43 1M4 A	2275	12	DER-1/A	1125	1070	**1025**	950	820	
ECO43 2M4 A	2370	12	DER-1/A	1140	1096	**1050**	960	840	
ECO43 2L4 A	2700	12	DER-1/A	1420	1358	**1300**	1200	1040	
ECO43 VL4 A	2980	12	DER-1/A	1540	1500	**1400**	1280	1120	
ECO46 1S4 A	3005	12	DER-1/A	1650	1552	**1500**	1350	1200	
ECO46 1.5S4 A	3375	12	DER-1/A	1800	1700	**1650**	1480	1320	
ECO46 2S4 A	3560	12	DER-1/A	1944	1863	**1800**	1600	1440	
ECO46 1L4 A	3805	12	DER-1/A	2268	2173	**2100**	1900	1680	
ECO46 1.5L4 A	4255	12	DER-1/A	2500	2380	**2300**	2050	1840	
ECO46 2L4 A	4375	12	DER-1/A	2700	2588	**2500**	2250	2000	
ECO46 VL4 A	5120	12	DER-1/A	2916	2795	**2700**	2400	2160	

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

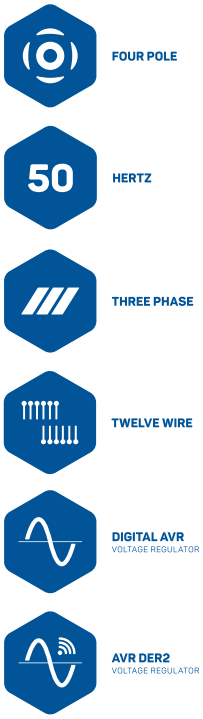
4 Pole | 50Hz | 3Phase

Voltage: 380-400-415 | Standard Winding - Broad Voltage - 12 Lead

RPM: 1500

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	12	DSR	7	6.8	**6.5**	6	5.2
ECP3 2S4 C	65	12	DSR	8.8	8.3	**8**	7.5	6.4
ECP3 1L4 C	79	12	DSR	11.8	11.4	**11**	10	8.8
ECP3 2L4 C	87	12	DSR	14.5	14	**13.5**	12.5	10.8
ECP3 3L4 C	93	12	DSR	16	15.5	**15**	14	12
ECP28 1VS4 C	73	12	DSR	8.2	7.7	**7.5**	6.7	6
ECP28 2VS4 C	79	12	DSR	11	10.3	**10**	9.1	8
ECP28 1S4 C	87	12	DSR	13.7	13	**12.5**	11.6	10
ECP28 2S4 C	91	12	DSR	16.5	15.4	**15**	14.1	12
ECP28 3S4 C	97	12	DSR	19.2	18	**17.5**	16.5	14
ECP28 M4 C	106	12	DSR	22	20.5	**20**	18.5	16
ECP28 L4 C	122	12	DSR	27.5	25.5	**25**	23	20
ECP28 VL4 C	142	12	DSR	33	30.5	**30**	26	24
ECP32 1S4 C	153	12	DSR	41	39	**37.5**	35	30
ECP32 2S4 C	165	12	DSR	46	45	**42**	39	34
ECP32 1M4 C	186	12	DSR	55	52.5	**50**	48	40
ECP32 2M4 C	212	12	DSR	68.8	65	**62.5**	59.5	50
ECP32 1L4 C	244	12	DSR	82.5	78	**75**	67	60
ECP32 2L4 C	252	12	DSR	91	85	**82.5**	73.2	66
ECP34 1S4 C	302	12	DSR	96	93	**87.5**	79	70
ECP34 2S4 C	349	12	DSR	110	105	**100**	90	80
ECP34 1M4 C	370	12	DSR	137	132	**125**	112	100
ECP34 2M4 C	388	12	DSR	148	143	**135**	121	108
ECP34 1L4 C	423	12	DSR	165	158	**150**	136	120
ECP34 2L4 C	440	12	DSR	181	174	**165**	149	132
ECO38 1S4 C	530	12	DSR	196	188	**180**	170	144
ECO38 2S4 C	573	12	DSR	220	211	**200**	185	160
ECO38 1M4 C	602	12	DSR	250	237	**225**	207	180
ECO38 2M4 C	692	12	DSR	275	264	**250**	230	200
ECO38 1L4 C	790	12	DSR	330	315	**300**	275	240
ECO38 2L4 C	930	12	DSR	370	360	**350**	320	280
ECO40 1S4 C	1049	12	DER-1/A	440	417	**400**	370	320
ECO40 2S4 C	1133	12	DER-1/A	491	468	**450**	410	360
ECO40 3S4 C	1208	12	DER-1/A	546	521	**500**	450	400
ECO40 1L4 C	1323	12	DER-1/A	590	557	**540**	490	432
ECO40 2L4 C	1458	12	DER-1/A	675	645	**625**	564	500
ECO40 3L4 C	1536	12	DER-1/A	735	700	**680**	630	544
ECO40 VL4 C	1752	12	DER-1/A	825	777	**750**	690	600
ECO43 1S4 A	1920	12	DER-1/A	900	860	**820**	750	655
ECO43 2S4 A	2140	12	DER-1/A	1016	975	**930**	850	744
ECO43 1M4 A	2275	12	DER-1/A	1125	1070	**1025**	950	820
ECO43 2M4 A	2370	12	DER-1/A	1140	1096	**1050**	960	840
ECO43 2L4 A	2700	12	DER-1/A	1420	1358	**1300**	1200	1040
ECO43 VL4 A	2980	12	DER-1/A	1540	1500	**1400**	1280	1120
ECO46 1S4 A	3005	12	DER-1/A	1650	1552	**1500**	1350	1200
ECO46 1.5S4 A	3375	12	DER-1/A	1800	1700	**1650**	1480	1320
ECO46 2S4 A	3560	12	DER-1/A	1944	1863	**1800**	1600	1440
ECO46 1L4 A	3805	12	DER-1/A	2268	2173	**2100**	1900	1680
ECO46 1.5L4 A	4255	12	DER-1/A	2500	2380	**2300**	2050	1840
ECO46 2L4 A	4375	12	DER-1/A	2700	2588	**2500**	2250	2000
ECO46 VL4 A	5120	12	DER-1/A	2916	2795	**2700**	2400	2160



All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

AVR Controlled Ratings 3ph 440V 50hz 1500rpm

4 Pole | 50Hz | 3Phase

Voltage: 440 | Standard Winding - 12 Lead

RPM: 1500

Insulation: Class H

FOUR POLE

50 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	5.9	5.6	**5.5**	5	4.4	127 Δ / 220 人 / 254 Δ / 440 人 Volts
ECP3 2S4 C	65	12	DSR	7.4	7	**6.8**	6.4	5.4	
ECP3 1L4 C	79	12	DSR	9.6	9.4	**9**	8	7.2	
ECP3 2L4 C	87	12	DSR	11.8	11.4	**11**	10	8.8	
ECP3 3L4 C	93	12	DSR	12.8	12.4	**12**	10.5	9.6	
ECP28 1VS4 C	73	12	DSR	–	–	**–**	–	–	
ECP28 2VS4 C	79	12	DSR	–	–	**–**	–	–	
ECP28 1S4 C	87	12	DSR	–	–	**–**	–	–	
ECP28 2S4 C	91	12	DSR	–	–	**–**	–	–	
ECP28 3S4 C	97	12	DSR	17.5	16.5	**16**	14.9	12.8	
ECP28 M4 C	106	12	DSR	20.4	19	**18.5**	17.5	14.8	
ECP28 L4 C	122	12	DSR	–	–	**–**	–	–	
ECP28 VL4 C	142	12	DSR	–	–	**–**	–	–	
ECP32 1S4 C	153	12	DSR	33	31.6	**30**	28	24	
ECP32 2S4 C	165	12	DSR	37.5	36	**34**	33	27	
ECP32 1M4 C	186	12	DSR	44	42	**40**	38	32	
ECP32 2M4 C	212	12	DSR	52	49.5	**47.5**	42.6	38	
ECP32 1L4 C	244	12	DSR	77	73	**70**	62	56	
ECP32 2L4 C	252	12	DSR	85	79	**77**	68	62	
ECP34 1S4 C	302	12	DSR	79	77	**72**	65	58	
ECP34 2S4 C	349	12	DSR	88	86	**80**	72	64	
ECP34 1M4 C	370	12	DSR	117	112	**106**	96	85	
ECP34 2M4 C	388	12	DSR	125	120	**114**	103	91	
ECP34 1L4 C	423	12	DSR	137	131	**125**	113	100	
ECP34 2L4 C	440	12	DSR	170	163	**155**	139	124	
ECO38 1S4 C	530	12	DSR	180	173	**165**	155	132	
ECO38 2S4 C	573	12	DSR	209	200	**190**	175	152	
ECO38 1M4 C	602	12	DSR	234	221	**210**	190	168	
ECO38 2M4 C	692	12	DSR	253	243	**230**	215	184	
ECO38 1L4 C	790	12	DSR	319	305	**290**	265	232	
ECO38 2L4 C	930	12	DSR	360	350	**340**	310	272	
ECO40 1S4 C	1049	12	DER-1/A	404	386	**370**	342	296	254 Δ / 440 人 / 508 Δ / 880 人 Volts
ECO40 2S4 C	1133	12	DER-1/A	393	375	**360**	330	288	
ECO40 3S4 C	1208	12	DER-1/A	503	479	**460**	414	368	
ECO40 1L4 C	1323	12	DER-1/A	546	515	**500**	454	400	
ECO40 2L4 C	1458	12	DER-1/A	616	588	**570**	515	456	
ECO40 3L4 C	1536	12	DER-1/A	560	535	**520**	483	416	
ECO40 VL4 C	1752	12	DER-1/A	740	700	**680**	630	544	
ECO43 1S4 A	1920	12	DER-1/A	825	800	**760**	690	615	
ECO43 2S4 A	2140	12	DER-1/A	907	870	**830**	770	664	
ECO43 1M4 A	2275	12	DER-1/A	1093	1044	**1000**	910	800	
ECO43 2M4 A	2370	12	DER-1/A	983	940	**900**	820	720	
ECO43 2L4 A	2700	12	DER-1/A	1349	1290	**1235**	1140	988	
ECO43 VL4 A	2980	12	DER-1/A	–	–	**–**	–	–	
ECO46 1S4 A	3005	12	DER-1/A	1400	1340	**1300**	1170	1040	
ECO46 1.5S4 A	3375	12	DER-1/A	1620	1545	**1500**	1360	1200	
ECO46 2S4 A	3560	12	DER-1/A	1720	1650	**1600**	1440	1280	
ECO46 1L4 A	3805	12	DER-1/A	1990	1900	**1850**	1660	1480	
ECO46 1.5L4 A	4255	12	DER-1/A	2375	2275	**2200**	1950	1760	
ECO46 2L4 A	4375	12	DER-1/A	2450	2350	**2280**	2050	1824	
ECO46 VL4 A	5120	12	DER-1/A	2150	2060	**2000**	1780	1600	

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

AVR Controlled Ratings 1ph Reconnected Winding 230V 50Hz 1500rpm

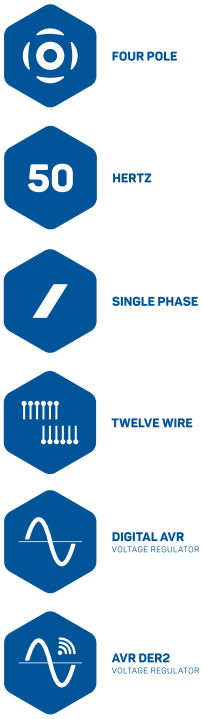
4 Pole | 50Hz | 1Phase | 1 P.F.

Voltage: 220/230/240 | Standard Winding - Reconnected - 12 Lead

RPM: 1500

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 1.0 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	5	4.8	**4.6**	4.3	3.7	SERIES DELTA / ZIG-ZAG / 1PHASE DOUBLE DELTA
ECP3 2S4 C	65	12	DSR	6.4	6	**5.8**	5.7	4.6	
ECP3 1L4 C	79	12	DSR	8.5	8.2	**8**	7.3	6.4	
ECP3 2L4 C	87	12	DSR	10	9.8	**9.6**	8.9	7.7	
ECP3 3L4 C	93	12	DSR	10.7	10.3	**10**	9.1	8	
ECP28 1VS4 C	73	12	DSR	4.9	4.6	**4.5**	4.1	3.6	
ECP28 2VS4 C	79	12	DSR	7.1	6.7	**6.5**	6	5.2	
ECP28 1S4 C	87	12	DSR	8.7	8.2	**8**	7.3	6.4	
ECP28 2S4 C	91	12	DSR	10.9	10.3	**10**	9.3	8	
ECP28 3S4 C	97	12	DSR	12.5	11.8	**11.5**	10.7	9.2	
ECP28 M4 C	106	12	DSR	14.7	14	**13.5**	12.3	10.8	
ECP28 L4 C	122	12	DSR	18	16.7	**16.5**	15.1	13.2	
ECP28 VL4 C	142	12	DSR	22.3	21	**20.5**	18.3	16.4	
ECP32 1S4 C	153	12	DSR	25	24	**23**	22	18.4	
ECP32 2S4 C	165	12	DSR	28	27	**26**	25	21	
ECP32 1M4 C	186	12	DSR	31.6	31	**29**	28	23	
ECP32 2M4 C	212	12	DSR	38	37	**35**	32.2	28	
ECP32 1L4 C	244	12	DSR	47	44	**43**	40	34.4	
ECP32 2L4 C	252	12	DSR	49	46	**45**	42	36	
ECP34 1S4 C	302	12	DSR	64	60	**59**	55	47	
ECP34 2S4 C	349	12	DSR	68	64	**62**	56	50	
ECP34 1M4 C	370	12	DSR	76	72	**70**	64	56	
ECP34 2M4 C	388	12	DSR	81	76	**74**	68	59	
ECP34 1L4 C	423	12	DSR	90	85	**83**	74	66	
ECP34 2L4 C	440	12	DSR	99	93	**90.5**	81	72	
ECO38 1S4 C	530	12	DSR	95	89	**87**	78	70	
ECO38 2S4 C	573	12	DSR	100	90	**88**	81	71	
ECO38 1M4 C	602	12	DSR	125	115	**111**	100	88	
ECO38 2M4 C	692	12	DSR	135	125	**122**	109	97	
ECO38 1L4 C	790	12	DSR	150	140	**136**	123	108	
ECO38 2L4 C	930	12	DSR	170	160	**156**	140	125	
ECO40 1S4 C	1049	12	DER-1/A	211	207	**196**	180	156	PARALLEL DELTA
ECO40 2S4 C	1133	12	DER-1/A	237	232	**220**	204	176	
ECO40 3S4 C	1208	12	DER-1/A	302	285	**276**	246	221	
ECO40 1L4 C	1323	12	DER-1/A	315	307	**292**	266	233	
ECO40 2L4 C	1458	12	DER-1/A	335	320	**310**	280	248	
ECO40 3L4 C	1536	12	DER-1/A	360	345	**335**	310	268	
ECO40 VL4 C	1752	12	DER-1/A	470	450	**435**	366	348	



All machines have an auxiliary winding 'standard' with 300% short circuit capability.

The Weights are the same as the 'standard' 3 phase Models.

Ratings with damper cage.

Consult Factory to choose for your application.

AVR Controlled Ratings 1ph Reconnected Winding 230V 50Hz 1500rpm

4 Pole | 50Hz | 1Phase | 0.8 P.F.

Voltage: 220/230/240 | Standard Winding - Reconnected - 12 Lead

RPM: 1500

Insulation: Class H

FOUR POLE

50 HERTZ

SINGLE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	4.6	4.3	**4.2**	3.9	3.4	SERIES DELTA / ZIG-ZAG / 1PHASE DOUBLE DELTA
ECP3 2S4 C	65	12	DSR	5.8	5.5	**5.3**	4.9	4.2	
ECP3 1L4 C	79	12	DSR	7.5	7.1	**6.9**	6.3	5.5	
ECP3 2L4 C	87	12	DSR	9.3	8.8	**8.5**	7.9	6.8	
ECP3 3L4 C	93	12	DSR	9.8	9.2	**9**	8	7.2	
ECP28 1VS4 C	73	12	DSR	4.5	4.2	**4.1**	3.7	3.3	
ECP28 2VS4 C	79	12	DSR	6.4	6.1	**5.9**	5.4	4.7	
ECP28 1S4 C	87	12	DSR	7.8	7.4	**7.2**	6.6	5.8	
ECP28 2S4 C	91	12	DSR	9.8	9.3	**9**	8.4	7.2	
ECP28 3S4 C	97	12	DSR	11.3	10.7	**10.4**	9.7	8.3	
ECP28 M4 C	106	12	DSR	13.3	12.7	**12.2**	11.1	9.8	
ECP28 L4 C	122	12	DSR	16.2	15.1	**14.9**	13.6	11.9	
ECP28 VL4 C	142	12	DSR	20	19	**18.5**	16.5	14.8	
ECP32 1S4 C	153	12	DSR	22	21	**20**	19	16	
ECP32 2S4 C	165	12	DSR	25.5	24	**23.5**	22.5	18.8	
ECP32 1M4 C	186	12	DSR	28	27	**26**	25	20.8	
ECP32 2M4 C	212	12	DSR	34	33	**31**	28.5	25	
ECP32 1L4 C	244	12	DSR	42.5	40	**39**	36	31	
ECP32 2L4 C	252	12	DSR	43.5	41	**40**	37	32	
ECP34 1S4 C	302	12	DSR	58	54	**53**	49	42	
ECP34 2S4 C	349	12	DSR	61	58	**56**	51	45	
ECP34 1M4 C	370	12	DSR	69	65	**63**	58	50	
ECP34 2M4 C	388	12	DSR	73	69	**67**	62	54	
ECP34 1L4 C	423	12	DSR	82	77	**75**	67	60	
ECP34 2L4 C	440	12	DSR	88	83	**81**	72	65	
ECO38 1S4 C	530	12	DSR	85	80	**78**	70	62	
ECO38 2S4 C	573	12	DSR	88	83	**81**	75	65	
ECO38 1M4 C	602	12	DSR	110	105	**101**	91	81	
ECO38 2M4 C	692	12	DSR	119	112	**109**	97	87	
ECO38 1L4 C	790	12	DSR	131	124	**120**	109	96	
ECO38 2L4 C	930	12	DSR	148	139	**136**	122	109	
ECO40 1S4 C	1049	12	DER-1/A	199	193	**183**	168	146	PARALLEL DELTA
ECO40 2S4 C	1133	12	DER-1/A	232	225	**213**	198	170	
ECO40 3S4 C	1208	12	DER-1/A	287	272	**263**	234	210	
ECO40 1L4 C	1323	12	DER-1/A	300	289	**275**	251	220	
ECO40 2L4 C	1458	12	DER-1/A	316	299	**290**	262	232	
ECO40 3L4 C	1536	12	DER-1/A	339	320	**311**	288	249	
ECO40 VL4 C	1752	12	DER-1/A	412	391	**378**	318	302	

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

The Weights are the same as the 'standard' 3 phase Models.

Ratings with damper cage.

Consult Factory to choose for your application.

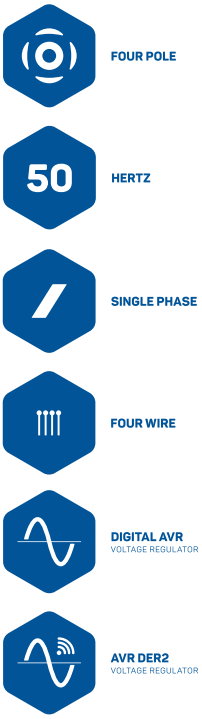
4 Pole | 50Hz | 1Phase | 1 P.F.

Voltage: 230 | Dedicated Winding - 4 Lead

RPM: 1500

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 1.0 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	4	DSR	5.4	5.1	**5**	4.6	4
ECP3 2S4 C	65	4	DSR	6.6	6.2	**6**	5.6	4.8
ECP3 1L4 C	79	4	DSR	9.1	8.8	**8.5**	7.7	6.8
ECP3 2L4 C	87	4	DSR	10.7	10.3	**10**	9.3	8
ECP3 3L4 C	93	4	DSR	11.7	11.3	**11**	9.8	8.8
ECP28 1VS4 C	73	4	DSR	5.5	5.1	**5**	4.5	4
ECP28 2VS4 C	79	4	DSR	7.6	7.2	**7**	6.4	5.6
ECP28 1S4 C	87	4	DSR	9.3	8.7	**8.5**	7.7	6.8
ECP28 2S4 C	91	4	DSR	11.4	10.8	**10.5**	9.8	8.4
ECP28 3S4 C	97	4	DSR	13.6	12.8	**12.5**	11.7	10
ECP28 M4 C	106	4	DSR	15.8	14.8	**14.5**	13.2	11.6
ECP28 L4 C	122	4	DSR	19.6	18.3	**18**	16.3	14.4
ECP28 VL4 C	142	4	DSR	24	22.6	**22**	20	17.6
ECP32 1S4 C	153	4	DSR	31	29	**28**	26.5	22
ECP32 2S4 C	165	4	DSR	35	33	**32**	29.4	26
ECP32 1M4 C	186	4	DSR	39	37	**36**	34.5	29
ECP32 2M4 C	212	4	DSR	44	41	**40**	38	32
ECP32 1L4 C	244	4	DSR	50	47	**46**	41	37
ECP32 2L4 C	252	4	DSR	52	49	**48**	45	38
ECP34 1S4 C	302	4	DSR	71	67	**65**	61	52
ECP34 2S4 C	349	4	DSR	76	73	**70**	64	56
ECP34 1M4 C	370	4	DSR	85	81	**78**	71	62
ECP34 2M4 C	388	4	DSR	87	83	**80**	73	64
ECP34 1L4 C	423	4	DSR	90	85	**83**	76	66
ECP34 2L4 C	440	4	DSR	100	94	**91.5**	84	73



All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Consult Factory to choose for your application.

Ratings with damper cage (Except Series 3).

For different nominal voltages please consult Factory.

AVR Controlled Ratings 1ph Dedicated Winding 230V 50Hz 1500rpm

4 Pole | 50Hz | 1Phase | 0.8 P.F.

Voltage: 230 | Dedicated Winding - 4 Lead

RPM: 1500

Insulation: Class H

FOUR POLE

50 HERTZ

SINGLE PHASE

FOUR WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	4	DSR	5	4.6	**4.5**	4.2	3.6
ECP3 2S4 C	65	4	DSR	6	5.6	**5.4**	5	4.3
ECP3 1L4 C	79	4	DSR	8	7.7	**7.5**	6.9	6
ECP3 2L4 C	87	4	DSR	9.7	9.3	**9**	8.4	7.2
ECP3 3L4 C	93	4	DSR	10.7	10.3	**10**	9.2	8
ECP28 1VS4 C	73	4	DSR	4.9	4.6	**4.5**	4	3.6
ECP28 2VS4 C	79	4	DSR	6.5	6.2	**6**	5.5	4.8
ECP28 1S4 C	87	4	DSR	8.4	7.9	**7.7**	7	6.2
ECP28 2S4 C	91	4	DSR	10.4	9.8	**9.5**	9	7.6
ECP28 3S4 C	97	4	DSR	12.3	11.6	**11.3**	10.6	9
ECP28 M4 C	106	4	DSR	14.2	13.3	**13**	12	10.4
ECP28 L4 C	122	4	DSR	17.7	16.4	**16.2**	14.8	13
ECP28 VL4 C	142	4	DSR	22	20.5	**20**	18	16
ECP32 1S4 C	153	4	DSR	24	23	**22**	20	18
ECP32 2S4 C	165	4	DSR	28.3	27	**26**	24	21
ECP32 1M4 C	186	4	DSR	32.7	30.4	**30**	28	24
ECP32 2M4 C	212	4	DSR	37.1	35	**34**	30	27
ECP32 1L4 C	244	4	DSR	45.8	43	**42**	39	34
ECP32 2L4 C	252	4	DSR	48	45	**44**	41	35
ECP34 1S4 C	302	4	DSR	63	60	**58**	53	46
ECP34 2S4 C	349	4	DSR	73	69	**67**	61	54
ECP34 1M4 C	370	4	DSR	76	72	**70**	64	56
ECP34 2M4 C	388	4	DSR	78	74	**72**	66	58
ECP34 1L4 C	423	4	DSR	82	77	**75**	69	60
ECP34 2L4 C	440	4	DSR	93	87	**85**	78	68

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Consult Factory to choose for your application.

Ratings with damper cage (Except Series 3).

For different nominal voltages please consult Factory.

4 Pole | 60Hz | 3Phase

Voltage: 480 | Standard Winding - 12 Lead

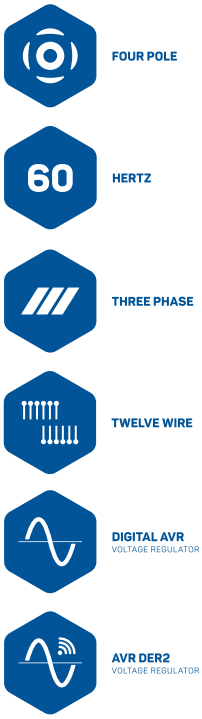
RPM: 1800

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	12	DSR	8.4	8	**7.8**	7.2	6.2
ECP3 2S4 C	65	12	DSR	10.5	10	**9.6**	9	7.7
ECP3 1L4 C	79	12	DSR	14.3	13.8	**13.2**	12	10.6
ECP3 2L4 C	87	12	DSR	17.5	16.9	**16.2**	15	13
ECP3 3L4 C	93	12	DSR	19.3	18.8	**18**	16.5	14.4
ECP28 1VS4 C	73	12	DSR	9.9	9.3	**9**	8.2	7.2
ECP28 2VS4 C	79	12	DSR	13.2	12.4	**12**	10.9	9.6
ECP28 1S4 C	87	12	DSR	16.5	15.5	**15**	13.9	12
ECP28 2S4 C	91	12	DSR	19.8	18.5	**18**	16.8	14.4
ECP28 3S4 C	97	12	DSR	23	21.6	**21**	19.6	16.8
ECP28 M4 C	106	12	DSR	26.4	24.6	**24**	22	19.2
ECP28 L4 C	122	12	DSR	33	30.6	**30**	27.5	24
ECP28 VL4 C	142	12	DSR	39.6	36.6	**36**	32	29
ECP32 1S4 C	153	12	DSR	49.5	47	**45**	43	36
ECP32 2S4 C	165	12	DSR	59	57	**54**	52	43.2
ECP32 1M4 C	186	12	DSR	66	63	**60**	58	48
ECP32 2M4 C	212	12	DSR	82.5	77.5	**75**	71.5	60
ECP32 1L4 C	244	12	DSR	99	93.7	**90**	83	72
ECP32 2L4 C	252	12	DSR	110	102	**100**	92	80
ECP34 1S4 C	302	12	DSR	115	111	**105**	95	84
ECP34 2S4 C	349	12	DSR	132	126	**120**	109	96
ECP34 1M4 C	370	12	DSR	165	159	**150**	135	120
ECP34 2M4 C	388	12	DSR	178	172	**162**	146	130
ECP34 1L4 C	423	12	DSR	198	189	**180**	163	144
ECP34 2L4 C	440	12	DSR	218	208	**198**	178	158
ECO38 1S4 C	530	12	DSR	236	230	**220**	205	176
ECO38 2S4 C	573	12	DSR	264	253	**240**	220	192
ECO38 1M4 C	602	12	DSR	300	284	**270**	250	216
ECO38 2M4 C	692	12	DSR	330	316	**300**	280	240
ECO38 1L4 C	790	12	DSR	396	378	**360**	330	288
ECO38 2L4 C	930	12	DSR	444	438	**420**	385	336
ECO40 1S4 C	1049	12	DER-1/A	525	500	**480**	440	384
ECO40 2S4 C	1133	12	DER-1/A	590	563	**540**	490	432
ECO40 3S4 C	1208	12	DER-1/A	656	625	**600**	540	480
ECO40 1L4 C	1323	12	DER-1/A	722	680	**660**	600	528
ECO40 2L4 C	1458	12	DER-1/A	810	775	**750**	677	600
ECO40 3L4 C	1536	12	DER-1/A	882	840	**816**	756	653
ECO40 VL4 C	1752	12	DER-1/A	970	925	**900**	830	720
ECO43 1S4 A	1920	12	DER-1/A	1080	1030	**985**	900	790
ECO43 2S4 A	2140	12	DER-1/A	1220	1170	**1116**	1020	893
ECO43 1M4 A	2275	12	DER-1/A	1365	1300	**1250**	1140	1000
ECO43 2M4 A	2370	12	DER-1/A	1525	1450	**1400**	1300	1120
ECO43 2L4 A	2700	12	DER-1/A	1700	1630	**1560**	1440	1248
ECO43 VL4 A	2980	12	DER-1/A	1824	1765	**1700**	1540	1360
ECO46 1S4 A	3005	12	DER-1/A	1944	1875	**1800**	1620	1440
ECO46 1.5S4 A	3375	12	DER-1/A	2140	2040	**1980**	1780	1584
ECO46 2S4 A	3560	12	DER-1/A	2332	2236	**2160**	1920	1728
ECO46 1L4 A	3805	12	DER-1/A	2722	2608	**2520**	2280	2016
ECO46 1.5L4 A	4255	12	DER-1/A	2980	2860	**2760**	2460	2208
ECO46 2L4 A	4375	12	DER-1/A	3240	3105	**3000**	2700	2400
ECO46 VL4 A	5120	12	DER-1/A	3683	3529	**3410**	3050	2728

138 Δ Δ / 240 人 / 277 Δ / 480 人 Volts

277 Δ Δ / 480 人 / 554 Δ / 960 人 Volts



All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

4 Pole | 60Hz | 3Phase

Voltage: 460 | Standard Winding - 12 Lead

RPM: 1800

Insulation: Class H

FOUR POLE

60 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	8.4	8	**7.8**	7.2	6.2	133 Δ Δ / 230 人 / 266 Δ / 460 人 Volts
ECP3 2S4 C	65	12	DSR	10.5	10	**9.6**	9	7.7	
ECP3 1L4 C	79	12	DSR	14.3	13.8	**13.2**	12	10.6	
ECP3 2L4 C	87	12	DSR	17.5	16.9	**16.2**	15	13	
ECP3 3L4 C	93	12	DSR	19.3	18.8	**18**	16.5	14.4	
ECP28 1VS4 C	73	12	DSR	9.9	9.3	**9**	8.2	7.2	
ECP28 2VS4 C	79	12	DSR	13.2	12.4	**12**	10.9	9.6	
ECP28 1S4 C	87	12	DSR	16.5	15.5	**15**	13.9	12	
ECP28 2S4 C	91	12	DSR	19.8	18.5	**18**	16.8	14.4	
ECP28 3S4 C	97	12	DSR	23	21.6	**21**	19.6	16.8	
ECP28 M4 C	106	12	DSR	26.4	24.6	**24**	22	19.2	
ECP28 L4 C	122	12	DSR	33	30.6	**30**	27.5	24	
ECP28 VL4 C	142	12	DSR	39.6	36.6	**36**	32	29	
ECP32 1S4 C	153	12	DSR	49.5	47	**45**	43	36	
ECP32 2S4 C	165	12	DSR	59	57	**54**	52	43.2	
ECP32 1M4 C	186	12	DSR	66	63	**60**	58	48	
ECP32 2M4 C	212	12	DSR	82.5	77.5	**75**	71.5	60	
ECP32 1L4 C	244	12	DSR	99	93.7	**90**	83	72	
ECP32 2L4 C	252	12	DSR	110	102	**100**	92	80	
ECP34 1S4 C	302	12	DSR	115	111	**105**	95	84	
ECP34 2S4 C	349	12	DSR	132	126	**120**	109	96	
ECP34 1M4 C	370	12	DSR	165	159	**150**	135	120	
ECP34 2M4 C	388	12	DSR	178	172	**162**	146	130	
ECP34 1L4 C	423	12	DSR	198	189	**180**	163	144	
ECP34 2L4 C	440	12	DSR	218	208	**198**	178	158	
ECO38 1S4 C	530	12	DSR	236	230	**220**	205	176	
ECO38 2S4 C	573	12	DSR	264	253	**240**	220	192	
ECO38 1M4 C	602	12	DSR	300	284	**270**	250	216	
ECO38 2M4 C	692	12	DSR	330	316	**300**	280	240	
ECO38 1L4 C	790	12	DSR	396	378	**360**	330	288	
ECO38 2L4 C	930	12	DSR	444	438	**420**	385	336	
ECO40 1S4 C	1049	12	DER-1/A	525	500	**480**	440	384	266 Δ Δ / 460 人 / 530 Δ / 920 人 Volts
ECO40 2S4 C	1133	12	DER-1/A	590	563	**540**	490	432	
ECO40 3S4 C	1208	12	DER-1/A	656	625	**600**	540	480	
ECO40 1L4 C	1323	12	DER-1/A	722	680	**660**	600	528	
ECO40 2L4 C	1458	12	DER-1/A	810	775	**750**	677	600	
ECO40 3L4 C	1536	12	DER-1/A	882	840	**816**	756	653	
ECO40 VL4 C	1752	12	DER-1/A	970	925	**900**	830	720	
ECO43 1S4 A	1920	12	DER-1/A	1080	1030	**985**	900	790	
ECO43 2S4 A	2140	12	DER-1/A	1220	1170	**1116**	1020	893	
ECO43 1M4 A	2275	12	DER-1/A	1290	1227	**1180**	1080	944	
ECO43 2M4 A	2370	12	DER-1/A	1525	1450	**1400**	1300	1120	
ECO43 2L4 A	2700	12	DER-1/A	1700	1630	**1560**	1440	1248	
ECO43 VL4 A	2980	12	DER-1/A	1824	1765	**1700**	1540	1360	
ECO46 1S4 A	3005	12	DER-1/A	1944	1875	**1800**	1620	1440	
ECO46 1.5S4 A	3375	12	DER-1/A	2140	2040	**1980**	1780	1584	
ECO46 2S4 A	3560	12	DER-1/A	2332	2236	**2160**	1920	1728	
ECO46 1L4 A	3805	12	DER-1/A	2722	2608	**2520**	2280	2016	
ECO46 1.5L4 A	4255	12	DER-1/A	2980	2860	**2760**	2460	2208	
ECO46 2L4 A	4375	12	DER-1/A	3240	3105	**3000**	2700	2400	
ECO46 VL4 A	5120	12	DER-1/A	3575	3426	**3310**	2980	2648	

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

4 Pole | 60Hz | 3Phase

Voltage: 440 | Standard Winding - 12 Lead

RPM: 1800

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	12	DSR	8.4	8	**7.8**	7.2	6.2
ECP3 2S4 C	65	12	DSR	10.5	10	**9.6**	9	7.7
ECP3 1L4 C	79	12	DSR	14.3	13.8	**13.2**	12	10.6
ECP3 2L4 C	87	12	DSR	17.5	16.9	**16.2**	15	13
ECP3 3L4 C	93	12	DSR	19.3	18.8	**18**	16.5	14.4
ECP28 1VS4 C	73	12	DSR	9.3	8.7	**8.5**	7.5	6.8
ECP28 2VS4 C	79	12	DSR	12.4	11.6	**11.3**	10	9
ECP28 1S4 C	87	12	DSR	15.3	14.3	**13.9**	12.5	11.1
ECP28 2S4 C	91	12	DSR	18.1	16.8	**16.4**	15.4	13.1
ECP28 3S4 C	97	12	DSR	21.1	19.7	**19**	18	15.3
ECP28 M4 C	106	12	DSR	25.3	23.6	**23**	20	18.4
ECP28 L4 C	122	12	DSR	30.3	28	**27.5**	25.5	22
ECP28 VL4 C	142	12	DSR	39.6	36.6	**36**	32	29
ECP32 1S4 C	153	12	DSR	47	45	**43**	41	34.4
ECP32 2S4 C	165	12	DSR	55	53	**50**	48	40
ECP32 1M4 C	186	12	DSR	66	63	**60**	58	48
ECP32 2M4 C	212	12	DSR	80	74	**72.5**	70	58
ECP32 1L4 C	244	12	DSR	90	86	**82**	80	65.6
ECP32 2L4 C	252	12	DSR	106	98	**96**	89	76.8
ECP34 1S4 C	302	12	DSR	115	111	**105**	95	84
ECP34 2S4 C	349	12	DSR	132	126	**120**	109	96
ECP34 1M4 C	370	12	DSR	154	147	**140**	125	112
ECP34 2M4 C	388	12	DSR	165	159	**150**	135	120
ECP34 1L4 C	423	12	DSR	187	178	**170**	150	136
ECP34 2L4 C	440	12	DSR	210	201	**191**	165	153
ECO38 1S4 C	530	12	DSR	236	230	**220**	205	176
ECO38 2S4 C	573	12	DSR	264	253	**240**	220	192
ECO38 1M4 C	602	12	DSR	300	284	**270**	250	216
ECO38 2M4 C	692	12	DSR	330	316	**300**	280	240
ECO38 1L4 C	790	12	DSR	374	357	**340**	310	272
ECO38 2L4 C	930	12	DSR	444	438	**420**	385	336
ECO40 1S4 C	1049	12	DER-1/A	492	469	**450**	410	360
ECO40 2S4 C	1133	12	DER-1/A	557	532	**510**	460	408
ECO40 3S4 C	1208	12	DER-1/A	634	604	**580**	520	464
ECO40 1L4 C	1323	12	DER-1/A	669	649	**630**	570	504
ECO40 2L4 C	1458	12	DER-1/A	762	730	**705**	636	564
ECO40 3L4 C	1536	12	DER-1/A	843	803	**780**	720	624
ECO40 VL4 C	1752	12	DER-1/A	970	925	**900**	830	720
ECO43 1S4 A	1920	12	DER-1/A	1080	1030	**985**	900	790
ECO43 2S4 A	2140	12	DER-1/A	1159	1111	**1060**	969	850
ECO43 1M4 A	2275	12	DER-1/A	1200	1144	**1100**	1000	880
ECO43 2M4 A	2370	12	DER-1/A	1420	1357	**1300**	1200	1040
ECO43 2L4 A	2700	12	DER-1/A	1618	1550	**1482**	1368	1186
ECO43 VL4 A	2980	12	DER-1/A	1824	1765	**1700**	1540	1360
ECO46 1S4 A	3005	12	DER-1/A	1847	1770	**1710**	1530	1368
ECO46 1.5S4 A	3375	12	DER-1/A	2030	1936	**1880**	1690	1504
ECO46 2S4 A	3560	12	DER-1/A	2213	2122	**2050**	1820	1640
ECO46 1L4 A	3805	12	DER-1/A	2582	2473	**2390**	2150	1912
ECO46 1.5L4 A	4255	12	DER-1/A	2829	2715	**2620**	2330	2096
ECO46 2L4 A	4375	12	DER-1/A	3067	2939	**2840**	2550	2272
ECO46 VL4 A	5120	12	DER-1/A	3375	3234	**3125**	2800	2500

127 Δ / 220 人 / 254 Δ / 440 人 Volts (ECP3 1S4 C – ECO38 2L4 C)

254 Δ / 440 人 / 508 Δ / 880 人 Volts (ECO40 1S4 C – ECO46 VL4 A)

FOUR POLE

60 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

4 Pole | 60Hz | 3Phase

Voltage: 415 | Standard Winding - 12 Lead

RPM: 1800

Insulation: Class H

FOUR POLE

60 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]
ECP3 1S4 C	59	12	DSR	7.5	7.2	**7**	6.5	5.6
ECP3 2S4 C	65	12	DSR	9.8	9.4	**9**	7.5	7.2
ECP3 1L4 C	79	12	DSR	12.9	12.4	**12**	11	9.6
ECP3 2L4 C	87	12	DSR	15.1	14.6	**14**	12.5	11.2
ECP3 3L4 C	93	12	DSR	17.1	16.7	**16**	14.5	12.8
ECP28 1VS4 C	73	12	DSR	8.8	8.3	**8**	7.2	6.4
ECP28 2VS4 C	79	12	DSR	11.5	10.7	**10.5**	9.5	8.4
ECP28 1S4 C	87	12	DSR	14.3	13.3	**13**	12	10.4
ECP28 2S4 C	91	12	DSR	17	15.9	**15.4**	14.6	12.4
ECP28 3S4 C	97	12	DSR	19.8	18.5	**18**	17	14.4
ECP28 M4 C	106	12	DSR	23.1	21.5	**21**	19	16.8
ECP28 L4 C	122	12	DSR	28.6	26.5	**26**	24	20.8
ECP28 VL4 C	142	12	DSR	36.3	33.5	**33**	29	26.4
ECP32 1S4 C	153	12	DSR	43.5	42	**39.5**	37	31.6
ECP32 2S4 C	165	12	DSR	52	50	**47**	43	37.6
ECP32 1M4 C	186	12	DSR	60.5	58	**55**	53	44
ECP32 2M4 C	212	12	DSR	76	71	**69**	63	55.2
ECP32 1L4 C	244	12	DSR	86	81	**78**	73	62.4
ECP32 2L4 C	252	12	DSR	97	90	**88**	81	70.4
ECP34 1S4 C	302	12	DSR	108	104	**98**	88	78
ECP34 2S4 C	349	12	DSR	120	114	**110**	99	88
ECP34 1M4 C	370	12	DSR	143	137	**130**	116	104
ECP34 2M4 C	388	12	DSR	154	148	**140**	125	112
ECP34 1L4 C	423	12	DSR	165	158	**150**	132	120
ECP34 2L4 C	440	12	DSR	187	179	**170**	155	136
ECO38 1S4 C	530	12	DSR	225	220	**210**	195	168
ECO38 2S4 C	573	12	DSR	253	242	**230**	210	184
ECO38 1M4 C	602	12	DSR	289	274	**260**	240	208
ECO38 2M4 C	692	12	DSR	319	305	**290**	270	232
ECO38 1L4 C	790	12	DSR	358	341	**325**	300	260
ECO38 2L4 C	930	12	DSR	402	391	**380**	350	304
ECO40 1S4 C	1049	12	DER-1/A	459	438	**420**	383	336
ECO40 2S4 C	1133	12	DER-1/A	524	500	**480**	435	384
ECO40 3S4 C	1208	12	DER-1/A	590	563	**540**	484	432
ECO40 1L4 C	1323	12	DER-1/A	623	587	**570**	515	456
ECO40 2L4 C	1458	12	DER-1/A	720	688	**665**	605	532
ECO40 3L4 C	1536	12	DER-1/A	778	741	**720**	665	576
ECO40 VL4 C	1752	12	DER-1/A	930	885	**860**	790	688
ECO43 1S4 A	1920	12	DER-1/A	990	945	**900**	820	720
ECO43 2S4 A	2140	12	DER-1/A	1115	1069	**1020**	935	816
ECO43 1M4 A	2275	12	DER-1/A	1147	1117	**1050**	960	840
ECO43 2M4 A	2370	12	DER-1/A	1300	1250	**1200**	1090	960
ECO43 2L4 A	2700	12	DER-1/A	1585	1516	**1451**	1339	1161
ECO43 VL4 A	2980	12	DER-1/A	1736	1680	**1600**	1450	1280
ECO46 1S4 A	3005	12	DER-1/A	1728	1656	**1600**	1440	1280
ECO46 1.5S4 A	3375	12	DER-1/A	1870	1782	**1730**	1570	1384
ECO46 2S4 A	3560	12	DER-1/A	2116	2028	**1950**	1750	1560
ECO46 1L4 A	3805	12	DER-1/A	2480	2370	**2300**	2070	1840
ECO46 1.5L4 A	4255	12	DER-1/A	2613	2508	**2420**	2150	1936
ECO46 2L4 A	4375	12	DER-1/A	2920	2800	**2700**	2430	2160
ECO46 VL4 A	5120	12	DER-1/A	3136	3007	**2900**	2600	2320

120 Δ Δ / 208 人 / 240 Δ / 415 人 Volts

240 Δ Δ / 415 人 / 480 Δ / 830 人 Volts

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

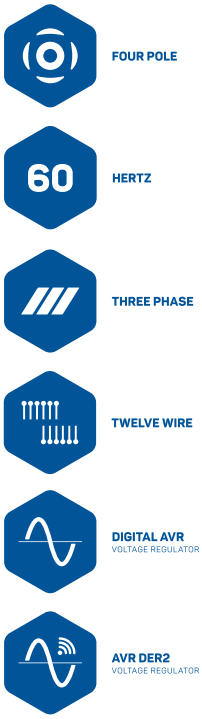
4 Pole | 60Hz | 3Phase

Voltage: 415-440-460-480 | Standard Winding - Broad Voltage - 12 Lead

RPM: 1800

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	12	DSR	7.5	7.2	**7**	6.5	5.6
ECP3 2S4 C	65	12	DSR	9.8	9.4	**9**	7.5	7.2
ECP3 1L4 C	79	12	DSR	12.9	12.4	**12**	11	9.6
ECP3 2L4 C	87	12	DSR	15.1	14.6	**14**	12.5	11.2
ECP3 3L4 C	93	12	DSR	17.1	16.7	**16**	14.5	12.8
ECP28 1VS4 C	73	12	DSR	8.8	8.3	**8**	7.2	6.4
ECP28 2VS4 C	79	12	DSR	11.5	10.7	**10.5**	9.5	8.4
ECP28 1S4 C	87	12	DSR	14.3	13.3	**13**	12	10.4
ECP28 2S4 C	91	12	DSR	17	15.9	**15.4**	14.6	12.4
ECP28 3S4 C	97	12	DSR	19.8	18.5	**18**	17	14.4
ECP28 M4 C	106	12	DSR	23.1	21.5	**21**	19	16.8
ECP28 L4 C	122	12	DSR	28.6	26.5	**26**	24	20.8
ECP28 VL4 C	142	12	DSR	36.3	33.5	**33**	29	26.4
ECP32 1S4 C	153	12	DSR	43.5	42	**39.5**	37	31.6
ECP32 2S4 C	165	12	DSR	52	50	**47**	43	37.6
ECP32 1M4 C	186	12	DSR	60.5	58	**55**	53	44
ECP32 2M4 C	212	12	DSR	76	71	**69**	63	55.2
ECP32 1L4 C	244	12	DSR	86	81	**78**	73	62.4
ECP32 2L4 C	252	12	DSR	97	90	**88**	81	70.4
ECP34 1S4 C	302	12	DSR	108	104	**98**	88	78
ECP34 2S4 C	349	12	DSR	120	114	**110**	99	88
ECP34 1M4 C	370	12	DSR	143	137	**130**	116	104
ECP34 2M4 C	388	12	DSR	154	148	**140**	125	112
ECP34 1L4 C	423	12	DSR	165	158	**150**	132	120
ECP34 2L4 C	440	12	DSR	187	179	**170**	155	136
ECO38 1S4 C	530	12	DSR	225	220	**210**	195	168
ECO38 2S4 C	573	12	DSR	253	242	**230**	210	184
ECO38 1M4 C	602	12	DSR	289	274	**260**	240	208
ECO38 2M4 C	692	12	DSR	319	305	**290**	270	232
ECO38 1L4 C	790	12	DSR	358	341	**325**	300	260
ECO38 2L4 C	930	12	DSR	402	391	**380**	350	304
ECO40 1S4 C	1049	12	DER-1/A	459	438	**420**	383	336
ECO40 2S4 C	1133	12	DER-1/A	524	500	**480**	435	384
ECO40 3S4 C	1208	12	DER-1/A	590	563	**540**	484	432
ECO40 1L4 C	1323	12	DER-1/A	623	587	**570**	515	456
ECO40 2L4 C	1458	12	DER-1/A	720	688	**665**	605	532
ECO40 3L4 C	1536	12	DER-1/A	778	741	**720**	665	576
ECO40 VL4 C	1752	12	DER-1/A	930	885	**860**	790	688
ECO43 1S4 A	1920	12	DER-1/A	990	945	**900**	820	720
ECO43 2S4 A	2140	12	DER-1/A	1115	1069	**1020**	935	816
ECO43 1M4 A	2275	12	DER-1/A	1147	1117	**1050**	960	840
ECO43 2M4 A	2370	12	DER-1/A	1300	1250	**1200**	1090	960
ECO43 2L4 A	2700	12	DER-1/A	1585	1516	**1451**	1339	1161
ECO43 VL4 A	2980	12	DER-1/A	1736	1680	**1600**	1450	1280
ECO46 1S4 A	3005	12	DER-1/A	1728	1656	**1600**	1440	1280
ECO46 1.5S4 A	3375	12	DER-1/A	1870	1782	**1730**	1570	1384
ECO46 2S4 A	3560	12	DER-1/A	2116	2028	**1950**	1750	1560
ECO46 1L4 A	3805	12	DER-1/A	2480	2370	**2300**	2070	1840
ECO46 1.5L4 A	4255	12	DER-1/A	2613	2508	**2420**	2150	1936
ECO46 2L4 A	4375	12	DER-1/A	2920	2800	**2700**	2430	2160
ECO46 VL4 A	5120	12	DER-1/A	3136	3007	**2900**	2600	2320



All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

AVR Controlled Ratings 3ph 400V 60Hz 1800rpm

4 Pole | 60Hz | 3Phase

Voltage: 400 | Standard Winding - 12 Lead

RPM: 1800

Insulation: Class H

FOUR POLE

60 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	7.3	7.1	**6.8**	6.2	5.4	115 Δ / 200 人 / 230 Δ / 400 人 Volts
ECP3 2S4 C	65	12	DSR	9.3	8.9	**8.5**	7.8	6.8	
ECP3 1L4 C	79	12	DSR	12.4	11.9	**11.5**	10.5	9.2	
ECP3 2L4 C	87	12	DSR	14.8	14.3	**13.8**	12.6	11	
ECP3 3L4 C	93	12	DSR	16.6	16	**15.5**	14.2	12.4	
ECP28 1VS4 C	73	12	DSR	8.6	8	**7.8**	7	6.2	
ECP28 2VS4 C	79	12	DSR	11.2	10.5	**10.2**	9.3	8.1	
ECP28 1S4 C	87	12	DSR	14.1	13.1	**12.8**	12.1	10.2	
ECP28 2S4 C	91	12	DSR	16.8	15.7	**15.3**	14.4	12.2	
ECP28 3S4 C	97	12	DSR	19.6	18.3	**17.8**	16.8	14.2	
ECP28 M4 C	106	12	DSR	22.5	20.9	**20.5**	19	16.4	
ECP28 L4 C	122	12	DSR	28	26	**25.5**	23.5	20.4	
ECP28 VL4 C	142	12	DSR	34.6	32.4	**31.5**	27.3	25.2	
ECP32 1S4 C	153	12	DSR	41	39	**37.5**	35	30	
ECP32 2S4 C	165	12	DSR	50	49	**45**	41	36	
ECP32 1M4 C	186	12	DSR	55	53	**50**	48	40	
ECP32 2M4 C	212	12	DSR	68.8	65	**62.5**	58	50	
ECP32 1L4 C	244	12	DSR	82.5	80	**75**	67	60	
ECP32 2L4 C	252	12	DSR	95	89	**86**	77	68.8	
ECP34 1S4 C	302	12	DSR	99	96	**90**	82	72	
ECP34 2S4 C	349	12	DSR	115	109	**105**	95	84	
ECP34 1M4 C	370	12	DSR	143	137	**130**	117	104	
ECP34 2M4 C	388	12	DSR	154	148	**140**	126	112	
ECP34 1L4 C	423	12	DSR	170	163	**155**	140	124	
ECP34 2L4 C	440	12	DSR	187	178	**170**	155	136	
ECO38 1S4 C	530	12	DSR	212	204	**195**	185	156	
ECO38 2S4 C	573	12	DSR	235	224	**213**	197	170	
ECO38 1M4 C	602	12	DSR	265	252	**240**	220	192	
ECO38 2M4 C	692	12	DSR	297	284	**270**	250	216	
ECO38 1L4 C	790	12	DSR	345	330	**315**	290	252	
ECO38 2L4 C	930	12	DSR	408	388	**370**	340	296	
ECO40 1S4 C	1049	12	DER-1/A	448	427	**410**	375	328	230 Δ / 400 人 / 460 Δ / 800 人 Volts
ECO40 2S4 C	1133	12	DER-1/A	513	490	**470**	430	376	
ECO40 3S4 C	1208	12	DER-1/A	569	540	**520**	465	416	
ECO40 1L4 C	1323	12	DER-1/A	623	587	**570**	515	456	
ECO40 2L4 C	1458	12	DER-1/A	708	678	**655**	600	524	
ECO40 3L4 C	1536	12	DER-1/A	768	731	**710**	650	568	
ECO40 VL4 C	1752	12	DER-1/A	885	844	**820**	755	656	
ECO43 1S4 A	1920	12	DER-1/A	955	910	**870**	800	700	
ECO43 2S4 A	2140	12	DER-1/A	1071	1027	**980**	900	784	
ECO43 1M4 A	2275	12	DER-1/A	1173	1124	**1075**	985	860	
ECO43 2M4 A	2370	12	DER-1/A	1310	1254	**1200**	1100	960	
ECO43 2L4 A	2700	12	DER-1/A	1497	1430	**1370**	1256	1096	
ECO43 VL4 A	2980	12	DER-1/A	1556	1505	**1450**	1325	1160	
ECO46 1S4 A	3005	12	DER-1/A	1707	1641	**1580**	1450	1313	
ECO46 1.5S4 A	3375	12	DER-1/A	1852	1761	**1710**	1570	1368	
ECO46 2S4 A	3560	12	DER-1/A	2054	1967	**1900**	1720	1520	
ECO46 1L4 A	3805	12	DER-1/A	2373	2276	**2200**	2000	1760	
ECO46 1.5L4 A	4255	12	DER-1/A	2578	2470	**2385**	2120	1908	
ECO46 2L4 A	4375	12	DER-1/A	2810	2690	**2600**	2380	2080	
ECO46 VL4 A	5120	12	DER-1/A	3136	3007	**2900**	2600	2320	

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/ parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

Consult factory for transient response performances as they may vary from the published data at this rating.

4 Pole | 60Hz | 3Phase

Voltage: 380 | Standard Winding - 12 Leads

RPM: 1800

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	12	DSR	7	6.8	**6.5**	6	5.2
ECP3 2S4 C	65	12	DSR	8.8	8.3	**8**	7.3	6.4
ECP3 1L4 C	79	12	DSR	11.8	11.4	**11**	10	8.8
ECP3 2L4 C	87	12	DSR	14.5	14	**13.5**	12.3	10.8
ECP3 3L4 C	93	12	DSR	16	15.5	**15**	13.7	12
ECP28 1VS4 C	73	12	DSR	8.2	7.8	**7.5**	6.7	6
ECP28 2VS4 C	79	12	DSR	11	10.3	**10**	9.1	8
ECP28 1S4 C	87	12	DSR	13.7	12.9	**12.5**	11.6	10
ECP28 2S4 C	91	12	DSR	16.5	15.4	**15**	14.1	12
ECP28 3S4 C	97	12	DSR	19.3	18	**17.5**	16.5	14
ECP28 M4 C	106	12	DSR	22	20.5	**20**	18.5	16
ECP28 L4 C	122	12	DSR	27.5	25.5	**25**	23	20
ECP28 VL4 C	142	12	DSR	33	31	**30**	26	24
ECP32 1S4 C	153	12	DSR	41	39	**37**	35	29.6
ECP32 2S4 C	165	12	DSR	48	47	**44**	40	35.2
ECP32 1M4 C	186	12	DSR	55	53	**50**	48	40
ECP32 2M4 C	212	12	DSR	68	64	**62**	57	49.6
ECP32 1L4 C	244	12	DSR	82.5	80	**75**	67	60
ECP32 2L4 C	252	12	DSR	91	86	**83**	75	66.4
ECP34 1S4 C	302	12	DSR	96	93	**88**	79	70
ECP34 2S4 C	349	12	DSR	110	105	**100**	90	80
ECP34 1M4 C	370	12	DSR	137	132	**125**	113	100
ECP34 2M4 C	388	12	DSR	148	143	**135**	122	108
ECP34 1L4 C	423	12	DSR	165	158	**150**	136	120
ECP34 2L4 C	440	12	DSR	181	174	**165**	149	132
ECO38 1S4 C	530	12	DSR	196	188	**180**	170	144
ECO38 2S4 C	573	12	DSR	220	211	**200**	185	160
ECO38 1M4 C	602	12	DSR	250	237	**225**	207	180
ECO38 2M4 C	692	12	DSR	275	263	**250**	230	200
ECO38 1L4 C	790	12	DSR	330	315	**300**	275	240
ECO38 2L4 C	930	12	DSR	370	360	**350**	320	280
ECO40 1S4 C	1049	12	DER-1/A	448	427	**410**	375	328
ECO40 2S4 C	1133	12	DER-1/A	502	480	**460**	421	368
ECO40 3S4 C	1208	12	DER-1/A	558	531	**510**	467	408
ECO40 1L4 C	1323	12	DER-1/A	613	577	**560**	513	448
ECO40 2L4 C	1458	12	DER-1/A	686	657	**635**	580	508
ECO40 3L4 C	1536	12	DER-1/A	746	710	**690**	632	552
ECO40 VL4 C	1752	12	DER-1/A	824	785	**763**	700	610
ECO43 1S4 A	1920	12	DER-1/A	920	880	**840**	765	670
ECO43 2S4 A	2140	12	DER-1/A	1038	996	**950**	871	760
ECO43 1M4 A	2275	12	DER-1/A	1140	1093	**1045**	957	836
ECO43 2M4 A	2370	12	DER-1/A	1278	1223	**1170**	1072	936
ECO43 2L4 A	2700	12	DER-1/A	1442	1379	**1320**	1210	1056
ECO43 VL4 A	2980	12	DER-1/A	1502	1453	**1400**	1280	1120
ECO46 1S4 A	3005	12	DER-1/A	1675	1610	**1550**	1420	1240
ECO46 1.5S4 A	3375	12	DER-1/A	1830	1740	**1690**	1550	1350
ECO46 2S4 A	3560	12	DER-1/A	2000	1915	**1850**	1705	1480
ECO46 1L4 A	3805	12	DER-1/A	2330	2235	**2160**	1980	1730
ECO46 1.5L4 A	4255	12	DER-1/A	2540	2435	**2350**	2155	1880
ECO46 2L4 A	4375	12	DER-1/A	2780	2660	**2570**	2355	2060
ECO46 VL4 A	5120	12	DER-1/A	3080	2950	**2850**	2550	2280

110 Δ / 190 人 / 220 Δ / 380 人 Volts (ECP3 1S4 C through ECO38 2L4 C)

220 ΔΔ / 380 人 / 440 Δ / 760 人 Volts (ECO40 1S4 C through ECO46 VL4 A)

FOUR POLE

60 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Indicated rating references to series or parallel star connection as per published table. On ECO40, ECO43 and ECO46, different series/parallel configurations are available on specific request: consult a Mecc Alte representative for more information.

4 Pole | 60Hz | 3Phase

Voltage: 380 | Special Winding - Dedicated - 12 Lead

RPM: 1800

Insulation: Class H

FOUR POLE

60 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	12	DSR	8.4	8	**7.8**	7.2	6.2
ECP3 2S4 C	65	12	DSR	10.5	10	**9.6**	9	7.7
ECP3 1L4 C	79	12	DSR	14.3	13.8	**13.2**	12	10.6
ECP3 2L4 C	87	12	DSR	17.5	16.9	**16.2**	15	13
ECP3 3L4 C	93	12	DSR	19.3	18.8	**18**	16.5	14.4
ECP28 1VS4 C	73	12	DSR	9.9	9.3	**9**	8.2	7.2
ECP28 2VS4 C	79	12	DSR	13.2	12.4	**12**	10.9	9.6
ECP28 1S4 C	87	12	DSR	16.5	15.5	**15**	13.9	12
ECP28 2S4 C	91	12	DSR	19.8	18.5	**18**	16.8	14.4
ECP28 3S4 C	97	12	DSR	23	21.6	**21**	19.6	16.8
ECP28 M4 C	106	12	DSR	26.4	24.6	**24**	22	19.2
ECP28 L4 C	122	12	DSR	33	30.6	**30**	27.5	24
ECP28 VL4 C	142	12	DSR	39.6	36.6	**36**	32	29
ECP32 1S4 C	153	12	DSR	49.5	47	**45**	43	36
ECP32 2S4 C	165	12	DSR	59	57	**54**	52	43.2
ECP32 1M4 C	186	12	DSR	66	63	**60**	58	48
ECP32 2M4 C	212	12	DSR	82.5	77.5	**75**	71.5	60
ECP32 1L4 C	244	12	DSR	99	93.7	**90**	83	72
ECP32 2L4 C	252	12	DSR	110	102	**100**	92	80
ECP34 1S4 C	302	12	DSR	115	111	**105**	95	84
ECP34 2S4 C	349	12	DSR	132	126	**120**	109	96
ECP34 1M4 C	370	12	DSR	165	159	**150**	135	120
ECP34 2M4 C	388	12	DSR	178	172	**162**	146	130
ECP34 1L4 C	423	12	DSR	198	189	**180**	163	144
ECP34 2L4 C	440	12	DSR	218	208	**198**	178	158
ECO38 1S4 C	530	12	DSR	236	230	**220**	205	176
ECO38 2S4 C	573	12	DSR	264	253	**240**	220	192
ECO38 1M4 C	602	12	DSR	300	284	**270**	250	216
ECO38 2M4 C	692	12	DSR	330	316	**300**	280	240
ECO38 1L4 C	790	12	DSR	396	378	**360**	330	288
ECO38 2L4 C	930	12	DSR	444	438	**420**	385	336
ECO40 1S4 C	1049	12	DER-1/A	525	500	**480**	440	384
ECO40 2S4 C	1133	12	DER-1/A	590	563	**540**	490	432
ECO40 3S4 C	1208	12	DER-1/A	656	625	**600**	540	480
ECO40 1L4 C	1323	12	DER-1/A	690	650	**630**	573	504
ECO40 2L4 C	1458	12	DER-1/A	810	775	**750**	677	600
ECO40 3L4 C	1536	12	DER-1/A	882	840	**816**	756	653
ECO40 VL4 C	1752	12	DER-1/A	970	925	**900**	830	720
ECO43 1S4 A	1920	12	DER-1/A	1050	1008	**960**	875	768
ECO43 2S4 A	2140	12	DER-1/A	1220	1170	**1116**	1020	893
ECO43 1M4 A	2275	12	DER-1/A	1365	1300	**1250**	1140	1000
ECO43 2M4 A	2370	12	DER-1/A	1442	1380	**1320**	1200	1056
ECO43 2L4 A	2700	12	DER-1/A	1700	1630	**1560**	1440	1248
ECO43 VL4 A	2980	12	DER-1/A	1717	1660	**1600**	1450	1280
ECO46 1S4 A	3005	12	DER-1/A	1944	1875	**1800**	1620	1440
ECO46 1.5S4 A	3375	12	DER-1/A	2055	1960	**1900**	1710	1520
ECO46 2S4 A	3560	12	DER-1/A	2160	2070	**2000**	1780	1600
ECO46 1L4 A	3805	12	DER-1/A	2700	2590	**2500**	2265	2000
ECO46 1.5L4 A	4255	12	DER-1/A	-	-	**-**	-	-
ECO46 2L4 A	4375	12	DER-1/A	2915	2795	**2700**	2430	2160
ECO46 VL4 A	5120	12	DER-1/A	–	–	**–**	–	–

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

These are 'special' custom build machines. Check factory for delivery lead times.

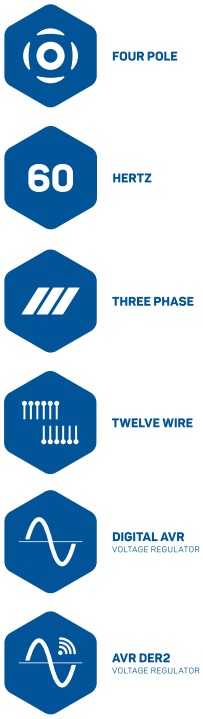
4 Pole | 60Hz | 3Phase

Voltage: 600 | Special Winding - Dedicated - 12 Lead

RPM: 1800

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	12	DSR	8.4	8	**7.8**	7.2	6.2
ECP3 2S4 C	65	12	DSR	10.5	10	**9.6**	9	7.7
ECP3 1L4 C	79	12	DSR	14.3	13.8	**13.2**	12	10.6
ECP3 2L4 C	87	12	DSR	17.5	16.9	**16.2**	15	13
ECP3 3L4 C	93	12	DSR	19.3	18.8	**18**	16.5	14.4
ECP28 1VS4 C	73	12	DSR	9.9	9.3	**9**	8.2	7.2
ECP28 2VS4 C	79	12	DSR	13.2	12.4	**12**	10.9	9.6
ECP28 1S4 C	87	12	DSR	16.5	15.5	**15**	13.9	12
ECP28 2S4 C	91	12	DSR	19.8	18.5	**18**	16.8	14.4
ECP28 3S4 C	97	12	DSR	23	21.6	**21**	19.6	16.8
ECP28 M4 C	106	12	DSR	26.4	24.6	**24**	22	19.2
ECP28 L4 C	122	12	DSR	33	30.6	**30**	27.5	24
ECP28 VL4 C	142	12	DSR	39.6	36.6	**36**	32	29
ECP32 1S4 C	153	12	DSR	49.5	47	**45**	43	36
ECP32 2S4 C	165	12	DSR	59	57	**54**	52	43.2
ECP32 1M4 C	186	12	DSR	66	63	**60**	58	48
ECP32 2M4 C	212	12	DSR	82.5	77.5	**75**	71.5	60
ECP32 1L4 C	244	12	DSR	99	93.7	**90**	83	72
ECP32 2L4 C	252	12	DSR	110	102	**100**	92	80
ECP34 1S4 C	302	12	DSR	115	111	**105**	95	84
ECP34 2S4 C	349	12	DSR	132	126	**120**	109	96
ECP34 1M4 C	370	12	DSR	165	159	**150**	135	120
ECP34 2M4 C	388	12	DSR	178	172	**162**	146	130
ECP34 1L4 C	423	12	DSR	198	189	**180**	163	144
ECP34 2L4 C	440	12	DSR	218	208	**198**	178	158
ECO38 1S4 C	530	12	DSR	236	230	**220**	205	176
ECO38 2S4 C	573	12	DSR	264	253	**240**	220	192
ECO38 1M4 C	602	12	DSR	300	284	**270**	250	216
ECO38 2M4 C	692	12	DSR	308	295	**280**	260	224
ECO38 1L4 C	790	12	DSR	396	378	**360**	330	288
ECO38 2L4 C	930	12	DSR	444	438	**420**	385	336
ECO40 1S4 C	1049	12	DER-1/A	525	500	**480**	440	384
ECO40 2S4 C	1133	12	DER-1/A	590	563	**540**	490	432
ECO40 3S4 C	1208	12	DER-1/A	656	625	**600**	540	480
ECO40 1L4 C	1323	12	DER-1/A	722	680	**660**	600	528
ECO40 2L4 C	1458	12	DER-1/A	810	775	**750**	677	600
ECO40 3L4 C	1536	12	DER-1/A	832	793	**770**	713	616
ECO40 VL4 C	1752	12	DER-1/A	892	843	**820**	756	656
ECO43 1S4 A	1920	12	DER-1/A	1050	1008	**960**	875	768
ECO43 2S4 A	2140	12	DER-1/A	1220	1170	**1116**	1020	893
ECO43 1M4 A	2275	12	DER-1/A	1365	1300	**1250**	1140	1000
ECO43 2M4 A	2370	12	DER-1/A	1525	1450	**1400**	1300	1120
ECO43 2L4 A	2700	12	DER-1/A	1700	1630	**1560**	1440	1248
ECO43 VL4 A	2980	12	DER-1/A	1920	1766	**1680**	1525	1344
ECO46 1S4 A	3005	12	DER-1/A	1836	1760	**1700**	1530	1360
ECO46 1.5S4 A	3375	12	DER-1/A	2140	2040	**1980**	1780	1584
ECO46 2S4 A	3560	12	DER-1/A	2332	2236	**2160**	1920	1728
ECO46 1L4 A	3805	12	DER-1/A	2560	2453	**2370**	2145	1896
ECO46 1.5L4 A	4255	12	DER-1/A	2980	2860	**2760**	2460	2208
ECO46 2L4 A	4375	12	DER-1/A	3240	3105	**3000**	2700	2400
ECO46 VL4 A	5120	12	DER-1/A	3683	3529	**3410**	3050	2728



All machines have an auxiliary winding 'standard' with 300% short circuit capability.

ECO46: Refer To Factory before ordering to assure winding is available at 600 Volts at the indicated rating.

These are 'special' custom build machines. Check factory for delivery lead times.

4 Pole | 60Hz | 3Phase

Voltage: 690 | Special Winding - Dedicated - 12 Lead

RPM: 1800

Insulation: Class H

FOUR POLE

60 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	12	DSR	8.4	8	**7.8**	7.2	6.2
ECP3 2S4 C	65	12	DSR	10.5	10	**9.6**	9	7.7
ECP3 1L4 C	79	12	DSR	14.3	13.8	**13.2**	12	10.6
ECP3 2L4 C	87	12	DSR	17.5	16.9	**16.2**	15	13
ECP3 3L4 C	93	12	DSR	19.3	18.8	**18**	16.5	14.4
ECP28 1VS4 C	73	12	DSR	9.9	9.3	**9**	8.2	7.2
ECP28 2VS4 C	79	12	DSR	13.2	12.4	**12**	10.9	9.6
ECP28 1S4 C	87	12	DSR	16.5	15.5	**15**	13.9	12
ECP28 2S4 C	91	12	DSR	19.8	18.5	**18**	16.8	14.4
ECP28 3S4 C	97	12	DSR	23	21.6	**21**	19.6	16.8
ECP28 M4 C	106	12	DSR	26.4	24.6	**24**	22	19.2
ECP28 L4 C	122	12	DSR	33	30.6	**30**	27.5	24
ECP28 VL4 C	142	12	DSR	39.6	36.6	**36**	32	29
ECP32 1S4 C	153	12	DSR	49.5	47	**45**	43	36
ECP32 2S4 C	165	12	DSR	59	57	**54**	52	43.2
ECP32 1M4 C	186	12	DSR	66	63	**60**	58	48
ECP32 2M4 C	212	12	DSR	82.5	77.5	**75**	71.5	60
ECP32 1L4 C	244	12	DSR	99	93.7	**90**	83	72
ECP32 2L4 C	252	12	DSR	110	102	**100**	92	80
ECP34 1S4 C	302	12	DSR	115	111	**105**	95	84
ECP34 2S4 C	349	12	DSR	132	126	**120**	109	96
ECP34 1M4 C	370	12	DSR	165	159	**150**	135	120
ECP34 2M4 C	388	12	DSR	178	172	**162**	146	130
ECP34 1L4 C	423	12	DSR	198	189	**180**	163	144
ECP34 2L4 C	440	12	DSR	218	208	**198**	178	158
ECO38 1S4 C	530	12	DSR	236	230	**220**	205	176
ECO38 2S4 C	573	12	DSR	264	253	**240**	220	192
ECO38 1M4 C	602	12	DSR	300	284	**270**	250	216
ECO38 2M4 C	692	12	DSR	330	316	**300**	280	240
ECO38 1L4 C	790	12	DSR	396	378	**360**	330	288
ECO38 2L4 C	930	12	DSR	444	438	**420**	385	336
ECO40 1S4 C	1049	12	DER-1/A	525	500	**480**	440	384
ECO40 2S4 C	1133	12	DER-1/A	590	563	**540**	490	432
ECO40 3S4 C	1208	12	DER-1/A	656	625	**600**	540	480
ECO40 1L4 C	1323	12	DER-1/A	722	680	**660**	600	528
ECO40 2L4 C	1458	12	DER-1/A	810	775	**750**	677	600
ECO40 3L4 C	1536	12	DER-1/A	882	840	**816**	756	653
ECO40 VL4 C	1752	12	DER-1/A	970	925	**900**	830	720
ECO43 1S4 A	1920	12	DER-1/A	1050	1008	**960**	875	768
ECO43 2S4 A	2140	12	DER-1/A	1220	1170	**1116**	1020	893
ECO43 1M4 A	2275	12	DER-1/A	1365	1300	**1250**	1140	1000
ECO43 2M4 A	2370	12	DER-1/A	1525	1450	**1400**	1300	1120
ECO43 2L4 A	2700	12	DER-1/A	1700	1630	**1560**	1440	1248
ECO43 VL4 A	2980	12	DER-1/A	1920	1766	**1680**	1525	1344
ECO46 1S4 A	3005	12	DER-1/A	1836	1760	**1700**	1530	1360
ECO46 1.5S4 A	3375	12	DER-1/A	2140	2040	**1980**	1780	1584
ECO46 2S4 A	3560	12	DER-1/A	2332	2236	**2160**	1920	1728
ECO46 1L4 A	3805	12	DER-1/A	2592	2484	**2400**	2171	1920
ECO46 1.5L4 A	4255	12	DER-1/A	2980	2860	**2760**	2460	2208
ECO46 2L4 A	4375	12	DER-1/A	3240	3105	**3000**	2700	2400
ECO46 VL4 A	5120	12	DER-1/A	3456	3312	**3200**	2862	2560

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

ECO46: Refer To Factory before ordering to assure winding is available at 690 Volts at the indicated rating.

These are 'special' custom build machines. Check factory for delivery lead times.

4 Pole | 60Hz | 1Phase | 1 P.F.

Voltage: 220/230/240 | Standard Winding - Reconnected - 12 Lead

RPM: 1800

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 1.0 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	5.3	5	**4.8**	4.4	3.8	SERIES DELTA / ZIG-ZAG / 1PHASE DOUBLE DELTA
ECP3 2S4 C	65	12	DSR	6.8	6.4	**6.2**	5.8	5	
ECP3 1L4 C	79	12	DSR	9	8.5	**8.2**	7.5	6.6	
ECP3 2L4 C	87	12	DSR	10.7	10	**9.8**	9	7.8	
ECP3 3L4 C	93	12	DSR	11.5	10.8	**10.5**	9.6	8.4	
ECP28 1VS4 C	73	12	DSR	5.5	5.1	**5**	4.5	4	
ECP28 2VS4 C	79	12	DSR	7.6	7.2	**7**	6.4	5.6	
ECP28 1S4 C	87	12	DSR	9.3	8.7	**8.5**	7.8	6.8	
ECP28 2S4 C	91	12	DSR	11.4	10.8	**10.5**	9.6	8.4	
ECP28 3S4 C	97	12	DSR	13.1	12.3	**12**	11	9.6	
ECP28 M4 C	106	12	DSR	15.3	14.5	**14**	13	11.2	
ECP28 L4 C	122	12	DSR	18.5	17.6	**17**	15	13.6	
ECP28 VL4 C	142	12	DSR	23	22	**21**	19.5	16.8	
ECP32 1S4 C	153	12	DSR	26	25	**24**	23	19.2	
ECP32 2S4 C	165	12	DSR	29	28	**27**	26	22	
ECP32 1M4 C	186	12	DSR	33	32	**30**	29	24	
ECP32 2M4 C	212	12	DSR	39	37.8	**36**	33	29	
ECP32 1L4 C	244	12	DSR	49	47	**45**	42	36	
ECP32 2L4 C	252	12	DSR	51	49	**47**	44	38	
ECP34 1S4 C	302	12	DSR	63	60	**58**	55	46	
ECP34 2S4 C	349	12	DSR	66	63	**61**	56	49	
ECP34 1M4 C	370	12	DSR	75	71	**69**	62	55	
ECP34 2M4 C	388	12	DSR	80	75	**73**	66	58	
ECP34 1L4 C	423	12	DSR	89	85	**82**	74	66	
ECP34 2L4 C	440	12	DSR	97	91	**89**	81	71	
ECO38 1S4 C	530	12	DSR	95	88	**86**	78	69	
ECO38 2S4 C	560	12	DSR	97	91	**88**	80	70	
ECO38 1M4 C	602	12	DSR	118	114	**110**	100	88	
ECO38 2M4 C	692	12	DSR	130	124	**120**	108	96	
ECO38 1L4 C	790	12	DSR	148	141	**135**	123	108	
ECO38 2L4 C	930	12	DSR	170	160	**155**	140	124	
ECO40 1S4 C	1049	12	DER-1/A	210	206	**195**	179	155	PARALLEL DELTA
ECO40 2S4 C	1133	12	DER-1/A	236	230	**219**	203	175	
ECO40 3S4 C	1208	12	DER-1/A	300	283	**275**	245	220	
ECO40 1L4 C	1323	12	DER-1/A	313	305	**290**	264	232	
ECO40 2L4 C	1458	12	DER-1/A	330	315	**305**	275	244	
ECO40 3L4 C	1536	12	DER-1/A	350	340	**330**	307	264	
ECO40 VL4 C	1752	12	DER-1/A	430	410	**400**	375	320	

FOUR POLE

60 HERTZ

SINGLE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

The Weights are the same as the 'standard' 3 phase Models.

Ratings with damper cage.

Consult Factory to choose for your application.

AVR Controlled Ratings 1ph Reconnected Winding 240V 60Hz 1800rpm

4 Pole | 60Hz | 1Phase | 0.8 P.F.

Voltage: 220/230/240 | Standard Winding - Reconnected - 12 Lead

RPM: 1800

Insulation: Class H

FOUR POLE

60 HERTZ

SINGLE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF					
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	
ECP3 1S4 C	59	12	DSR	4.8	4.6	**4.4**	4	3.5	SERIES DELTA / ZIG-ZAG / 1PHASE DOUBLE DELTA
ECP3 2S4 C	65	12	DSR	6.2	5.9	**5.7**	5.3	4.6	
ECP3 1L4 C	79	12	DSR	8.2	7.8	**7.5**	6.9	6	
ECP3 2L4 C	87	12	DSR	9.5	8.9	**8.7**	8	7	
ECP3 3L4 C	93	12	DSR	10.5	9.9	**9.6**	8.8	7.7	
ECP28 1VS4 C	73	12	DSR	4.9	4.6	**4.5**	4.1	3.6	
ECP28 2VS4 C	79	12	DSR	6.9	6.5	**6.3**	5.8	5	
ECP28 1S4 C	87	12	DSR	8.4	7.9	**7.7**	7.1	6.2	
ECP28 2S4 C	91	12	DSR	10.4	9.7	**9.5**	8.7	7.6	
ECP28 3S4 C	97	12	DSR	11.8	11.1	**10.8**	9.9	8.6	
ECP28 M4 C	106	12	DSR	13.7	13.1	**12.6**	11.7	10.1	
ECP28 L4 C	122	12	DSR	16.7	15.8	**15.3**	13.5	12.2	
ECP28 VL4 C	142	12	DSR	20.6	19.8	**18.9**	17.6	15.1	
ECP32 1S4 C	153	12	DSR	23.4	22	**21.5**	20	17	
ECP32 2S4 C	165	12	DSR	27	25.4	**24.5**	23	19.6	
ECP32 1M4 C	186	12	DSR	29.4	28	**27**	26	21.6	
ECP32 2M4 C	212	12	DSR	35	33.5	**32**	29	25.6	
ECP32 1L4 C	244	12	DSR	44	42	**40.5**	38	32	
ECP32 2L4 C	252	12	DSR	47	45	**43**	40	34	
ECP34 1S4 C	302	12	DSR	57	54	**52**	49	41.6	
ECP34 2S4 C	349	12	DSR	60	57	**55**	50	44	
ECP34 1M4 C	370	12	DSR	68	64	**62**	56	49.6	
ECP34 2M4 C	388	12	DSR	72	68	**66**	60	52.8	
ECP34 1L4 C	423	12	DSR	81	77	**74**	67	59.2	
ECP34 2L4 C	440	12	DSR	87	82	**80**	73	64	
ECO38 1S4 C	530	12	DSR	85	80	**78**	71	62	
ECO38 2S4 C	560	12	DSR	87	83	**80**	73	64	
ECO38 1M4 C	602	12	DSR	109	104	**100**	91	80	
ECO38 2M4 C	692	12	DSR	118	112	**108**	97	86	
ECO38 1L4 C	790	12	DSR	130	124	**119**	108	95	
ECO38 2L4 C	930	12	DSR	148	140	**136**	123	109	
ECO40 1S4 C	1049	12	DER-1/A	201	194	**184**	169	147	PARALLEL DELTA
ECO40 2S4 C	1133	12	DER-1/A	231	223	**212**	197	170	
ECO40 3S4 C	1208	12	DER-1/A	286	270	**262**	233	210	
ECO40 1L4 C	1323	12	DER-1/A	296	286	**272**	248	218	
ECO40 2L4 C	1458	12	DER-1/A	312	295	**286**	258	229	
ECO40 3L4 C	1536	12	DER-1/A	335	316	**307**	286	246	
ECO40 VL4 C	1752	12	DER-1/A	416	392	**382**	358	306	

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

The Weights are the same as the 'standard' 3 phase Models.

Ratings with damper cage.

Consult Factory to choose for your application.

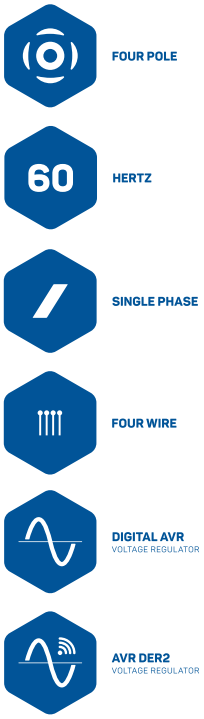
4 Pole | 60Hz | 1Phase | 1 P.F.

Voltage: 240 | Dedicated Winding - 4 Lead

RPM: 1800

Insulation: Class H

				kVA @ Temp. Rise / Ambient C / 1.0 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	4	DSR	6.2	6.1	**6**	5.6	4.8
ECP3 2S4 C	65	4	DSR	7.8	7.7	**7.5**	7.1	6
ECP3 1L4 C	79	4	DSR	10.5	10.3	**10**	9.2	8
ECP3 2L4 C	87	4	DSR	12.5	12.4	**12**	11.1	9.6
ECP3 3L4 C	93	4	DSR	14.1	13.9	**13.5**	12.5	10.8
ECP28 1VS4 C	73	4	DSR	6.5	6.1	**6**	5.5	4.8
ECP28 2VS4 C	79	4	DSR	9.3	8.7	**8.5**	7.7	6.8
ECP28 1S4 C	87	4	DSR	11.4	10.8	**10.5**	9.5	8.4
ECP28 2S4 C	91	4	DSR	13.6	12.8	**12.5**	11.6	10
ECP28 3S4 C	97	4	DSR	16.4	15.4	**15**	13.9	12
ECP28 M4 C	106	4	DSR	18.5	17.3	**17**	15.9	13.6
ECP28 L4 C	122	4	DSR	24	22.3	**22**	20.4	17.6
ECP28 VL4 C	142	4	DSR	27.3	25.7	**25**	22	20
ECP32 1S4 C	153	4	DSR	39	37	**36**	34.5	29
ECP32 2S4 C	165	4	DSR	45	42	**41**	39	33
ECP32 1M4 C	186	4	DSR	48	45	**44**	42	35
ECP32 2M4 C	212	4	DSR	52	50	**48**	45.5	38
ECP32 1L4 C	244	4	DSR	60	57	**55**	52	44
ECP32 2L4 C	252	4	DSR	63	60	**58**	55	46
ECP34 1S4 C	302	4	DSR	85	80	**78**	73	62
ECP34 2S4 C	349	4	DSR	92	87	**84**	76	67
ECP34 1M4 C	370	4	DSR	105	99	**96**	88	77
ECP34 2M4 C	388	4	DSR	107	101	**98**	90	78
ECP34 1L4 C	423	4	DSR	109	103	**100**	92	80
ECP34 2L4 C	440	4	DSR	122	115	**112**	102	90



All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Consult Factory to choose for your application.

Ratings with damper cage (Except Series 3).

For different nominal voltages please consult Factory.

AVR Controlled Ratings 1ph Dedicated Winding 240V 60Hz 1800rpm

4 Pole | 60Hz | 1Phase | 0.8 P.F.

Voltage: 240 | Dedicated Winding - 4 Lead

RPM: 1800

Insulation: Class H

FOUR POLE

60 HERTZ

SINGLE PHASE

FOUR WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

				kVA @ Temp. Rise / Ambient C / 0.8 PF				
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Standby **163/27**	Standby **150/40**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**
ECP3 1S4 C	59	4	DSR	5.7	5.6	**5.5**	5.1	4.4
ECP3 2S4 C	65	4	DSR	7.2	6.7	**6.5**	6	5.2
ECP3 1L4 C	79	4	DSR	9.7	9.3	**9**	8.3	7.2
ECP3 2L4 C	87	4	DSR	11.6	11.2	**10.8**	10.1	8.6
ECP3 3L4 C	93	4	DSR	12.8	12.8	**12**	11.2	9.6
ECP28 1VS4 C	73	4	DSR	5.6	5.2	**5.1**	4.6	4.1
ECP28 2VS4 C	79	4	DSR	8.1	7.6	**7.4**	6.7	5.9
ECP28 1S4 C	87	4	DSR	10.1	9.5	**9.3**	8.5	7.4
ECP28 2S4 C	91	4	DSR	12.3	11.6	**11.3**	10.9	9
ECP28 3S4 C	97	4	DSR	14.7	13.9	**13.5**	13	10.8
ECP28 M4 C	106	4	DSR	17.1	16	**15.7**	14.4	12.6
ECP28 L4 C	122	4	DSR	20.7	19.3	**19**	17.4	15.2
ECP28 VL4 C	142	4	DSR	24	22.6	**22**	20	17.6
ECP32 1S4 C	153	4	DSR	30.5	29	**28**	26	22
ECP32 2S4 C	165	4	DSR	38.2	36	**35**	32	28
ECP32 1M4 C	186	4	DSR	41.4	39	**38**	34	30
ECP32 2M4 C	212	4	DSR	45.8	43	**42**	36	34
ECP32 1L4 C	244	4	DSR	54.5	52	**50**	47	40
ECP32 2L4 C	252	4	DSR	58.9	55	**54**	51	43
ECP34 1S4 C	302	4	DSR	76	72	**70**	65	56
ECP34 2S4 C	349	4	DSR	88	84	**81**	73	65
ECP34 1M4 C	370	4	DSR	94	89	**86**	78	69
ECP34 2M4 C	388	4	DSR	96	91	**88**	80	70
ECP34 1L4 C	423	4	DSR	98	93	**90**	83	72
ECP34 2L4 C	440	4	DSR	110	104	**101**	92	81

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

Consult Factory to choose for your application.

Ratings with damper cage (Except Series 3).

For different nominal voltages please consult Factory.

2/4 Pole | 50/60Hz | 1Phase

Voltage: 230/115; 240/120 - 4 Lead

RPM: 1500/1800

Insulation: Class H

4 Pole

MODEL	WEIGHT (kg)	LENGTH (mm)	kVA @ 230/115V, 50Hz, 1.0 pf Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]	Eff %
LT3N-75/4	32	248	**3.5**	3.2	2.8	75.8
LT3N-100/4	38	273	**4.5**	4.1	3.6	76.5
LT3N-110/4	40	283	**5**	4.6	4	76.8
LT3N-130/4	46	303	**6**	5.5	4.8	77.5
LT3N-160/4	55	333	**8**	7.3	6.4	78.0

4 Pole

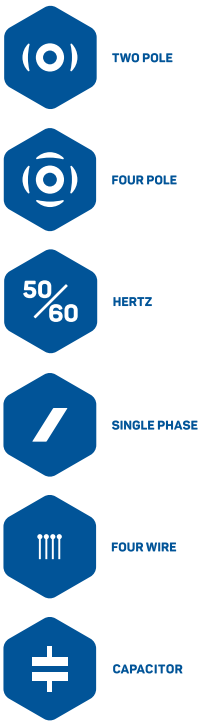
MODEL	WEIGHT (kg)	LENGTH (mm)	kVA @ 240/120V, 60Hz, 1.0 pf Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]	Eff %
LT3N-75/4	32	248	**4.5**	4.1	3.6	76.5
LT3N-100/4	38	273	**6**	5.5	4.8	77.5
LT3N-110/4	40	283	**6.5**	6	5.2	78.0
LT3N-130/4	46	303	**7.5**	6.9	6	78.6
LT3N-160/4	55	333	**10**	9.2	8	79.2

2 Pole

MODEL	WEIGHT (kg)	LENGTH (mm)	kVA @ 230/115V, 50Hz, 1.0 pf Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]	Eff %
LT3N-100/2	40	273	**7**	6.4	5.6	79.8
LT3N-130/2	49	303	**10**	9.2	8	80.2

2 Pole

MODEL	WEIGHT (kg)	LENGTH (mm)	kVA @ 240/120V, 60Hz, 1.0 pf Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]	Eff %
LT3N-100/2	40	273	**8.4**	7.7	6.7	80.3
LT3N-130/2	49	303	**12**	11	9.6	80.7



Brushless capacitor excited machines specifically for Metal Halide light tower lamps.

For custom voltages or non-standard lamp striking voltages, please refer to Factory.

4 Pole | 50/60Hz | 1 & 3Phase

Voltage: Various
RPM: 1500/1800
Insulation: Class H

FOUR POLE
HERTZ
SINGLE PHASE
THREE PHASE
FOUR WIRE
TWELVE WIRE
DIGITAL AVR
VOLTAGE REGULATOR

3Phase

			kVA 115/200/230/400V 50 Hz, 0.8pf					kVA 138/240/277/480V 60 Hz, 0.8pf				
			Standby		Continuous			Standby		Continuous		
MODEL	**WEIGHT** (kg)	**LEADS**	**163/27**	**150/40**	**125/40**	**105/40**	**80/40**	**163/27**	**150/40**	**125/40**	**105/40**	**80/40**
NPE32 1S4 C	77	12	8.8	8.3	**8**	7.8	6.4	11	10.6	**10**	9.3	8
NPE32 2S4 C	83	12	12.1	11.6	**11**	10	8.8	14.3	13.8	**13**	11.6	10.4
NPE32 1M4 C	98	12	17.6	16.7	**16**	14.8	12.8	20.9	19.9	**19**	17.2	15.2
NPE32 2M4 C	109	12	22	20.9	**20**	18.2	16	26.4	24.9	**24**	21.7	19.2
NPE32 L4 C	120	12	27.5	26.2	**25**	23	20	34.1	32.5	**31**	28.5	24.8
NPE32 VL4 C	145	12	38.5	36.4	**35**	31.8	28	46.2	43.7	**42**	38.3	33.6

1Phase (Dedicated Winding)

			kVA 115/230V 50 Hz, 1.0pf					kVA 120/240V 60 Hz, 1.0pf				
			Standby		Continuous			Standby		Continuous		
MODEL	**WEIGHT** (kg)	**LEADS**	**163/27**	**150/40**	**125/40**	**105/40**	**80/40**	**163/27**	**150/40**	**125/40**	**105/40**	**80/40**
NPE32 1S4 C	77	12	6.5	6.3	**6**	5.8	4.8	8.7	8.3	**8**	7.6	6.4
NPE32 2S4 C	83	12	9.8	9.4	**9**	8.6	7.2	12	11.5	**11**	10.5	8.8
NPE32 1M4 C	98	12	14.7	14.3	**13.5**	13	10.8	18	17.3	**16.5**	15.9	13.2
NPE32 2M4 C	109	12	18.5	17.9	**17**	16.4	13.6	22.9	22.2	**21**	19.8	16.8
NPE32 L4 C	120	12	21.8	21.1	**20**	18.9	16	27.3	26.1	**25**	23.9	20
NPE32 VL4 C	145	12	29.4	28.8	**27**	25.2	21.6	35.4	34.3	**32.5**	30.7	26

1Phase (Re-connected)

			kVA 220V/230V/240V 50 Hz, 1.0pf					kVA 220V/230V/240V 60 Hz, 1.0pf				
			Standby		Continuous			Standby		Continuous		
MODEL	**WEIGHT** (kg)	**LEADS**	**163/27**	**150/40**	**125/40**	**105/40**	**80/40**	**163/27**	**150/40**	**125/40**	**105/40**	**80/40**
NPE32 1S4 C	77	12	5.5	5.3	**5**	4.5	4	7.1	6.9	**6.5**	5.9	5.2
NPE32 2S4 C	83	12	7.6	7.5	**7**	6.3	5.6	8.7	8.4	**8**	7.2	6.4
NPE32 1M4 C	98	12	12	11.5	**11**	9.8	8.8	14.2	13.6	**13**	11.7	10.4
NPE32 2M4 C	109	12	14.7	14.2	**13.5**	12.2	10.8	18.5	17.9	**17**	15.3	13.6
NPE32 L4 C	120	12	18	17.2	**16.5**	14.9	13.2	21.8	20.8	**20**	18	16
NPE32 VL4 C	145	12	24	22.8	**22**	19.8	17.6	27.3	26	**25**	22.5	20

Space Efficient - designed for length reduction.

All the generators on this page come 'standard' with the DSR AVR.

For other combinations of voltages/frequencies please consult our online DDS system.

2 Pole | 50/60Hz | 1 & 3Phase

Voltage: Various
RPM: 3000/3600
Insulation: Class H

3Phase

MODEL	WEIGHT (kg)	LEADS	kVA 115/200/230/400V 50 Hz, 0.8pf Continuous 125/40 [H]	kVA 115/200/230/400V 50 Hz, 0.8pf Continuous 105/40 [F]	kVA 138/240/277/480V 60 Hz, 0.8pf Continuous 125/40 [H]	kVA 138/240/277/480V 60 Hz, 0.8pf Continuous 105/40 [F]
NPE32 1M2 C	90	12	**13.5**	12.3	**16.5**	15
NPE32 2M2 C	102	12	**21**	19	**25.5**	23
NPE32 L2 C	120	12	**26**	23.8	**31.5**	29
NPE32 1VL2 C	134	12	**32**	28.8	**38.4**	35

1Phase (Dedicated Winding)

MODEL	WEIGHT (kg)	LEADS	kVA 115/230V 50 Hz, 1.0pf Continuous 125/40 [H]	kVA 115/230V 50 Hz, 1.0pf Continuous 105/40 [F]	kVA 120/240V 60 Hz, 1.0pf Continuous 125/40 [H]	kVA 120/240V 60 Hz, 1.0pf Continuous 105/40 [F]
NPE32 1M2 C	88	4	**12**	11	**14.4**	13.2
NPE32 2M2 C	100	4	**15**	13.6	**18**	16.3
NPE32 L2 C	118	4	**21**	19	**25.2**	23
NPE32 1VL2 C	132	4	**25**	23	**30**	27.5

1Phase (Re-connected)

MODEL	WEIGHT (kg)	LEADS	kVA 220V/230V/240V 50 Hz, 1.0pf Continuous 125/40 [H]	kVA 220V/230V/240V 60 Hz, 1.0pf Continuous 125/40 [H]
NPE32 1M2 C	90	12	**9**	**11**
NPE32 2M2 C	102	12	**14**	**16.8**
NPE32 L2 C	120	12	**17.3**	**21**
NPE32 1VL2 C	134	12	**21.3**	**25.5**

Space Efficient - designed for length reduction.

All the generators on this page come 'standard' with the DSR AVR.

4 Pole | 50/60Hz | 3Phase

Voltage: Various - 12 Lead
RPM: 1500/1800
Insulation: Class H

mecc alte
RAIL

Railroad Duty Alternators

Mecc Alte has been building Railroad Duty alternators for over two decades. Designed and manufactured to meet harsh environmental demands for line haul locomotives and switching applications.

Our rugged insulation system, with our unique, overcoat of black severe environment protection, provides unparalleled mechanical strength and superior protection against airborn rail dust, oil and grease.

Our TE (Totally Enclosed), pre-engineered generators (some are listed below) are becoming the standard for other harsh environmental applications, which include gantry cranes for Asian Port Authorities and off-shore oil platforms on two continents.

Typical Mechanical and Electrical Specification

Insulation System and mechanical reinforcement:

- Stator treatments can include additional mechanical bracing, additional lacing on the end turns; VPI treatment, black severe environment protection on the windings.
- Rotor treatments can include VPI application(s), closer machining tolerances on the rotor shaft with shrink collars to prevent core pack movement.
- Special Lead termination and configurations (long leads, bus bars, etc.) as well as special cable glands, cooling fans, adaptors and mounting reinforcement.

				kVA @ 50Hz Temp. Rise/Amb. C/ 0.8PF 115 / 200 / 230 / 400 V			
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	Continuous **95/50**
TE34-1S/4	310	12	UVR6	**50**	45	40	42
TE34-2S/4	376	12	UVR6	**60**	54	48	50
TE34-1L/4	396	12	UVR6	**70**	63	56	58
TE34-2L/4	430	12	UVR6	**80**	72	64	67

				kVA @ 60Hz Temp. Rise/Amb. C/ 0.8PF 138 / 240 / 276 / 480 V			
MODEL	**WEIGHT** (kg)	**LEADS**	**AVR**	Continuous **125/40 [H]**	Continuous **105/40 [F]**	Continuous **80/40 [B]**	Continuous **95/50**
TE34-1S/4	310	12	UVR6	**60**	54	48	50
TE34-2S/4	376	12	UVR6	**72**	65	57.5	60
TE34-1L/4	396	12	UVR6	**84**	76	67	70
TE34-2L/4	430	12	UVR6	**96**	87	77	80

FOUR POLE

50/60 HERTZ

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

Consult Factory for pricing.

Above generators are built to IP55 standards.

Custom engineered models are available to fit special applications. Consult Factory.

IP55
INGRESS PROTECTION

14/20/24/26 Pole | 400Hz | 3Phase

Voltage: 115/200 – 208 - 6 /12 Lead
RPM: 3428/2400/2000/1848
Insulation: Class H

400Hz

Multi-Pole | 400Hz

MODEL	WEIGHT (kg)	LEADS	AVR	RPM	kVA @ Temp. Rise / Ambient C	
					Continuous **125/40 [H]**	Continuous **105/40 [F]**
HCP3 1S14	49	6	UVR6/H	3428	**5.5**	5
HCP3 2S14	54	6	UVR6/H	3428	**7**	6.5
HCP3 3S14	61	6	UVR6/H	3428	**9**	8.5
HCP3 2L14	72	6	UVR6/H	3428	**11**	10
HCP3 3L14	80	6	UVR6/H	3428	**13**	12
HCP32 1S20 A**	187	12	UVR6/H	2400	**45**	40
HCP32 2S20 A**	220	12	UVR6/H	2400	**50**	45
HCP32 2L20 A**	275	12	UVR6/H	2400	**60**	55
HCP32 3L20 A**	300	12	UVR6/H	2400	**70**	65
HCP34 1S20 A**	318	12	UVR6/H	2400	**75**	70
HCP34 2S20 A**	345	12	UVR6/H	2400	**95**	85
HCP34 3S20 A**	380	12	UVR6/H	2400	**125**	115
HCP34 1L20 A**	430	12	UVR6/H	2400	**150**	135
HCP34 1S24 A*	346	12	UVR6/H	2000	**60**	55
HCP34 2S24 A*	420	12	UVR6/H	2000	**90**	80
HCP34 2L24 A*	502	12	UVR6/H	2000	**125**	110
HCO38 2S26 A*	540	6	UVR6/H	1848	**90**	85
HCO38 3S26 A*	629	6	UVR6/H	1848	**120**	110
HCO38 1L26 A*	790	6	UVR6/H	1848	**150**	140
HCO38 2L26 A*	885	6	UVR6/H	1848	**180**	165

*According ISO 6858 - EN2282 – Mil Stnd 704F

** Mil Stnd 704F available on request.

MULTI POLE

400 HERTZ

THREE PHASE

TWELVE WIRE

SIX WIRE

DIGITAL AVR
VOLTAGE REGULATOR

AVR DER2
VOLTAGE REGULATOR

All machines have an auxiliary winding 'standard' with 300% short circuit capability.

UVR6/1-H400B AVR has under frequency, over voltage protection, 3ph reference; regulation is +/- 1%.

Line Drop Compensator is also available as an option.

Custom projects available for dedicated power nodes.

The following accessories are available upon request for an additional charge:

- Space Heaters
- Temperature detectors (thermistors or PT100) for stator windings and bearings.
- IP45 or IP54 rated enclosure.
- Remote voltage control.

2/3 pitch windings with skewed slots for maximum reduction of harmonic content.

TOTAL+ treatment standard from HCP32 up to HCO38.

4 layers of polyester in addition to a clear varnish and EG43 overcoat on the main and exciter windings is standard on 400 Hz machines.

2 Pole | 50/60Hz | 3 & 1Phase

Voltage: Various - 12 Lead

RPM: 3000/3600

Insulation: Class H

TWO POLE

HERTZ

SINGLE PHASE

THREE PHASE

TWELVE WIRE

DIGITAL AVR
VOLTAGE REGULATOR

1Phase - Reconnected

			50Hz, 1.0 PF			60Hz, 1.0 PF		
			kVA @ Temp Rise/Ambient			kVA @ Temp Rise/Ambient		
			220/230/240 V ΔΔ		%EFF	277 V Δ		%EFF
MODEL	WEIGHT (kg)	AVR	Continuous 125/40	Continuous 105/40		Continuous 125/40	Continuous 105/40	
ECP3 1S2	56	DSR	**5.5**	5	72.6	**6.6**	5.9	74.2
ECP3 2S2	62	DSR	**7**	6.3	73.9	**8.4**	7.6	75.6
ECP3 3S2	68	DSR	**8**	7.2	74.0	**9.6**	8.6	75.7
ECP3 1L2	80	DSR	**10.5**	9.5	77.9	**12.5**	11.2	79.8
ECP3 2L2	88	DSR	**12.5**	11.4	78.8	**15**	13.5	80.7
ECP28 M2 C	126	DSR	**14.5**	13	79.5	**17.5**	16	81.1
ECP28 1L2 C	136	DSR	**17**	15	80.9	**20.5**	18	82.5
ECP28 2L2 C	141	DSR	**20**	18	81.7	**24**	22	83.3
ECP28 VL2 C	156	DSR	**24**	22	81.9	**29**	26.5	83.5
ECP32 1S2 C	173	DSR	**29**	26	81.4	**35**	32	82.8
ECP32 2S2 C	199	DSR	**33**	29	82.2	**39**	35	84.8
ECP32 M2 C	212	DSR	**43**	39	83.0	**51.5**	47	85.5
ECP32 L2 C	231	DSR	**54**	49	83.1	**65**	59	85.6
ECP34 1S2 A	334	DSR	**67**	60	85.9	**80**	72	88.1
ECP34 2S2 A	403	DSR	**83**	75	86.5	**100**	90	88.4
ECP34 1L2 A	446	DSR	**104**	93	87.0	**125**	113	89.0
ECP34 2L2 A	482	DSR	**113**	103	87.5	**139**	125	89.7
ECO38 1S2 A	510	DSR	**105**	95	87.7	**125**	112	89.7
ECO38 1L2 A	676	DSR	**140**	125	88.2	**167**	153	90.3
ECO38 2L2 A	790	DSR	**199**	182	88.7	**240**	220	91.0

3Phase

			50Hz, 0.8 PF			60Hz, 0.8 PF				
			kVA @ Temp Rise/Ambient			kVA @ Temp Rise/Ambient				
			115/200/230/400 V			138/240/277/480 V			120/208/240/415 V	
			Continuous		%EFF	Continuous		%EFF	Continuous	
MODEL	WEIGHT (kg)	AVR	125/40	105/40		125/40	105/40		125/40	105/40
ECP3 1S2	56	DSR	**8**	7.2	78.5	**9.6**	8.6	79.9	**8.5**	7
ECP3 2S2	62	DSR	**10**	9	80.5	**12**	10.8	82.8	**10.5**	9
ECP3 3S2	68	DSR	**12.5**	11	83.0	**15**	13	84.5	**13**	10.5
ECP3 1L2	80	DSR	**16**	14.5	84.5	**19.2**	17	86.1	**17**	14
ECP3 2L2	88	DSR	**20**	18	85.5	**24**	21,5	87.2	**21**	18
ECP28 M2 C	126	DSR	**22**	20	85.2	**26.5**	24	86.2	**22**	20
ECP28 1L2 C	136	DSR	**27**	25	86.4	**32.5**	30	87.9	**27**	24.5
ECP28 2L2 C	141	DSR	**31.5**	30	87.2	**38**	36	89.2	**32**	30
ECP28 VL2 C	156	DSR	**40**	37	87.8	**48**	44	89.7	**40**	37.5
ECP32 1S2 C	173	DSR	**44**	40	87.4	**53**	48	89.2	**46**	41.5
ECP32 2S2 C	199	DSR	**50**	45	88.1	**60**	54	89.5	**53**	47.7
ECP32 M2 C	214	DSR	**66**	60	88.4	**79.5**	72	90.2	**68**	61.5
ECP32 L2 C	231	DSR	**82**	75	89.0	**98.5**	90	90.5	**84**	76
ECP34 1S2 A	334	DSR	**100**	90	90.0	**120**	108	91.8	**105**	95
ECP34 2S2 A	403	DSR	**125**	113	90.7	**150**	135	92.2	**130**	120
ECP34 1L2 A	446	DSR	**156**	140	91.2	**187**	169	92.8	**160**	145
ECP34 2L2 A	482	DSR	**170**	154	91.8	**208**	188	93.5	**175**	160
ECO38 1S2 A	510	DSR	**158**	142	91.7	**188**	169	93.1	**163**	150
ECO38 1L2 A	676	DSR	**208**	188	92.2	**250**	225	93.5	**215**	197
ECO38 2L2 A	790	DSR	**300**	270	92.8	**360**	324	93.9	**315**	288

2 Pole | 50/60Hz | 1Phase

Voltage: Various - 4 Lead
RPM: 3000/3600
Insulation: Class H

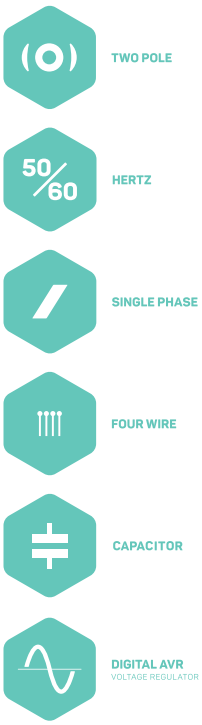
mecc alte
Portable

2 Pole | 1Phase (Capacitor)		kVA @ 1.0 PF, 50Hz		kVA @ 1.0 PF, 60Hz	
MODEL	**WEIGHT** (kg)	**115/230 V**	**%EFF**	**120/240 V**	**%EFF**
S15W-45	8.1	1.2	68.8	1.45	69.7
S15W-60	10.4	1.8	70.2	2.2	71.2
S15W-75	12.4	2.1	71.4	2.5	71.8
S15W-85	13.4	2.4	71.8	2.9	72.2
S15W-102	14.8	2.8	72	3.4	72.3
S16W-75	14.3	2.5	74	3	74.6
S16W-90	16.1	3.5	75	4.2	75.6
S16W-105	17.7	4.1	76	4.9	76.6
S16W-130	21	5	77	6	77.6
S16W-150	23.7	5.7	78	6.8	78.6
S16W-75 HD	14.6	2.5	74	3	74.6
S16W-90 HD	16.4	3.5	75	4.2	75.6
S16W-105 HD	18	4.1	76	4.9	76.6
S16W-130 HD	21.3	5	77	6	77.6
S16W-150 HD	24	5.7	78	6.8	78.6
S20W-95	27.4	6	77.5	7.2	78.2
S20W-110	30.5	7	78.4	8.4	79.2
S20W-130	34.9	8.5	79	10.2	79.8
S16F-150	28	5.5	79	6.6	79.6
S16F-180	31	6.5	79.5	7.8	80.1
S20FS-130	41.7	8.5	79	10.5	79.4
S20FS-160	48.7	10.0	79.2	12	79.6
S20F-200	56.5	12.0	80.3	14.4	80.8
S20F-230	60	13.0	82.1	15.5	82.7

Above machines are brushless with capacitior control and optional AVR.

2 Pole | 1Phase (AVR)		kVA @ 1.0 PF, 50Hz		kVA @ 1.0 PF, 60Hz	
MODEL	**WEIGHT** (kg)	**115/230 V**	**%EFF**	**120/240 V**	**%EFF**
ES16W-75 HD	15.6	2.3	73.7	2.7	74.2
ES16W-90 HD	17.5	3	74.2	3.6	74.8
ES16W-105 HD	19.6	3.5	77	4.2	77.7
ES16W-130 HD	22.8	4.5	79.4	5.4	80
ES16W-150 HD	25.5	5	79.7	6	80.3
ES16F-130	25.8	4.5	79.4	5.5	80
ES16F-160	29.8	5.5	79.8	6.8	80.5
ES20FS-130	41.2	8	79.4	9.6	79.8
ES20FS-160	48.2	9.5	79.6	11.4	80
ES20F-200	56	11	80.7	13.2	81.2

Above machines are brush type with AVR control.



2 Pole | 50/60Hz | 3Phase

Voltage: Various - 6 Lead
RPM: 3000/3600
Insulation: Class H

mecc alte Portable

TWO POLE
HERTZ
THREE PHASE
SIX WIRE
COMPOUND
DIGITAL AVR
VOLTAGE REGULATOR

2 Pole | 3Phase (Transformer)		kVA @ 0.8 PF, 50Hz		kVA @ 0.8 PF, 60Hz	
MODEL	**WEIGHT** (kg)	**230/400 V**	**%EFF**	**277/480 V**	**%EFF**
T16F-130	30.5	6.0	79.8	7.2	80.3
T16F-160	34.5	7.5	82.0	9	82.5
T20FS-130	44.7	10	81.5	12	83.0
T20FS-160	51.7	12.5	82.0	15	83.5
T20F-200	59.5	15	82.6	18	83.8

Above machines are brush type with transformer control.

2 Pole | 3Phase (AVR)		kVA @ 0.8 PF, 50Hz		kVA @ 0.8 PF, 60Hz	
MODEL	**WEIGHT** (kg)	**230/400 V**	**%EFF**	**277/480 V**	**%EFF**
ET16F-130	30	5.5	80.2	6.6	80.6
ET16F-160	34	6.5	82.3	7.8	82.5
ET20FS-130	44.2	9	81.9	11	83.6
ET20FS-160	51.2	11.5	82.4	14	83.9
ET20F-200	59	13.5	82.9	16.5	84.1

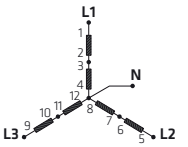
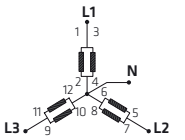
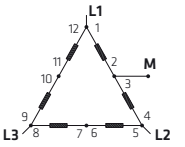
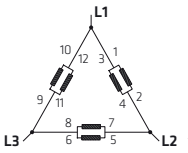
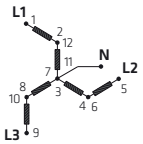
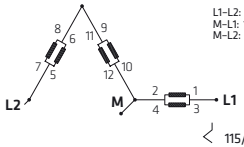
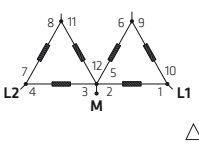
Above machines are brush type with AVR control.

50Hz Connections

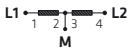
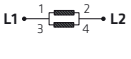
The following are the most common connection arrangements utilized with Mecc Alte generators. Always verify that the connections of all the leads from the main stator are consistent with the nameplate voltage required. Connection diagrams are supplied with every generator and should be used as the primary source of information. Please consult the factory for any questions regarding these connections.

50 HERTZ

Three Phase

50Hz			Series 3, 28, 31, 32, 34, 38				Series 40, 43, 46			
Series Star	 L1–L2–L3: 400V 3ø L1–L2: 400V L1–L3: 400V L2–L3: 400V N–L1: 230V N–L2: 230V N–L3: 230V 400 VOLT, 3PHASE	L-L	380	**400**	415	440	760	**800**	830	880
		L-N	220	**230**	240	254	440	**460**	480	508
Parallel Star	 L1–L2–L3: 200V 3ø L1–L2: 200V L1–L3: 200V L2–L3: 200V N–L1: 115V N–L2: 115V N–L3: 115V 200 VOLT, 3PHASE 115 VOLT, 1PHASE	L-L	190	**200**	208	220	380	**400**	415	440
		L-N	110	**115**	120	127	220	**230**	240	254
Series Delta	 L1–L2–L3: 230V 3ø L1–L2: 230V L1–L3: 230V L2–L3: 230V M–L1: 115V M–L2: 115V 230 VOLT, 3PHASE 115/230 V OLT, 1PHASE	L-L	220	**230**	240	254	440	**460**	480	508
		L-M	110	**115**	120	127	220	**230**	240	254
Parallel Delta	 L1–L2–L3: 115V 3ø L1–L2: 115V L1–L3: 115V L2–L3: 115V 115 VOLT, 3PHASE 115 VOLT, 1PHASE (L1-L2)	L-L	110	**115**	120	127	220	**230**	240	254
Zig-Zag (*)	 L1–L2–L3: 346V 3ø L1–L2: 200V L1–L3: 200V L2–L3: 200V 346 VOLT, 3PHASE 200 VOLT, 1PHASE (L1-L2)	L-L	330	**346**	360	380	660	**690**	720	760
		L-N	191	**200**	208	220	380	**400**	415	440
Single Phase Parallel Zig-Zag	 L1–L2: 230V M–L1: 115V M–L2: 115V 115/230 VOLT, 1PHASE	L-L	220	**230**	240	254	440	**460**	480	508
		L-M	110	**115**	120	127	220	**230**	240	254
Single Phase Double Delta (**)	 L1–L2: 230V M–L1: 115V M–L2: 115V 115/230 VOLT, 1PHASE	L-L	220	**230**	240	254	440	**460**	480	508
		L-M	110	**115**	120	127	220	**230**	240	254

Single Phase (Dedicated Winding)

50Hz			Series 3, 28, 31, 32, 34		
Series	 L1–L2: 230V M–L1: 115V M–L2: 115V 115/230 VOLT, 1PHASE	L-L	220	**230**	240
		L-M	110	**115**	120
Parallel	 L1–L2: 115V 115 VOLT, 1PHASE	L-L	110	**115**	120

In case of single phase load, it is important that the phase current does not exceed the nominal value.

(*) Rated power must be multiplied by 0.866.

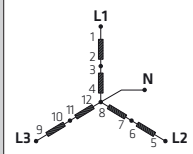
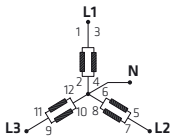
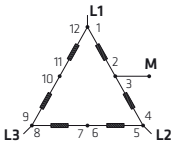
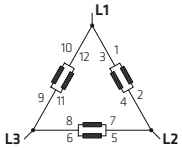
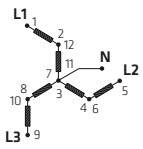
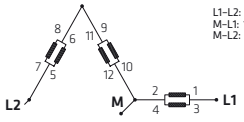
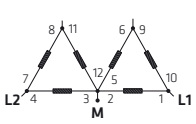
(**) Half of rated power is obtainable when connecting between L1-M or L2-M.

60Hz Connections

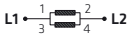
The following are the most common connection arrangements utilized with Mecc Alte generators. Always verify that the connections of all the leads from the main stator are consistent with the nameplate voltage required. Connection diagrams are supplied with every generator and should be used as the primary source of information. Please consult the factory for any questions regarding these connections.

60 HERTZ

Three Phase

60Hz			Series 3, 28, 31, 32, 34, 38				Series 40, 43, 46			
Series Star	 L1-L2-L3: 480V 3ø L1-L2: 480V L1-L3: 480V L2-L3: 480V N-L1: 277V N-L2: 277V N-L3: 277V 480 VOLT, 3PHASE	L-L	415	440	460	**480**	830	880	920	960
		L-N	240	254	266	**277**	480	508	530	554
Parallel Star	 L1-L2-L3: 240V 3ø L1-L2: 240V L1-L3: 240V L2-L3: 240V N-L1: 139V N-L2: 139V N-L3: 139V 240 VOLT, 3PHASE 139 VOLT, 1PHASE	L-L	208	220	230	**240**	415	440	460	480
		L-N	120	127	133	**139**	240	254	266	277
Series Delta	 L1-L2-L3: 277V 3ø L1-L2: 277V L1-L3: 277V L2-L3: 277V M-L1: 139V M-L2: 139V 277 VOLT, 3PHASE 139/277 VOLT, 1PHASE	L-L	240	254	266	**277**	480	508	530	554
		L-M	120	127	133	**139**	240	252	266	277
Parallel Delta	 L1-L2-L3: 139V 3ø L1-L2: 139V L1-L3: 139V L2-L3: 239V 139 VOLT, 3PHASE 139 VOLT, 1PHASE (L1-L2)	L-L	120	127	133	**139**	240	252	266	277
Zig-Zag (*)	 L1-L2-L3: 415V 3ø L1-L2: 240V L1-L3: 240V L2-L3: 240V 415 VOLT, 3PHASE 240 VOLT, 1PHASE (L1-L2)	L-L	359	380	400	**415**	720	760	800	830
		L-N	207	220	230	**240**	415	440	460	480
Single Phase Parallel Zig-Zag	 L1-L2: 277V M-L1: 139V M-L2: 139V 139/277 VOLT, 1PHASE	L-L	240	254	266	**277**	440	460	480	554
		L-M	120	127	133	**139**	220	230	240	277
Single Phase Double Delta (**)	 L1-L2: 277V M-L1: 139V M-L2: 139V 139/277 VOLT, 1PHASE	L-L	240	254	266	**277**	440	460	480	554
		L-M	120	127	133	**139**	220	230	240	277

Single Phase (Dedicated Winding)

60Hz			Series 3, 28, 31, 32, 34		
Series	 L1-L2: 230V M-L1: 115V M-L2: 115V 115/230 VOLT, 1PHASE	L-L	220	230	**240**
		L-M	110	115	**120**
Parallel	 L1-L2: 115V 115 VOLT, 1PHASE	L-L	110	115	**120**

In case of single phase load, it is important that the phase current does not exceed the nominal value.

(*) Rated power must be multiplied by 0.866.

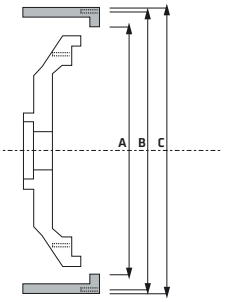
(**) Half of rated power is obtainable when connecting between L1-M or L2-M.

SAE Flywheel Housing Dimensions

Mounting Arrangements.

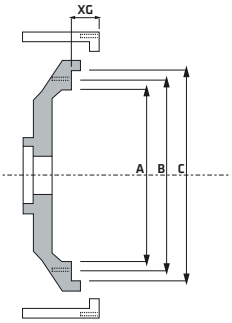
S.A.E. Flywheel Housing Dimensions, mm (in)

SAE No.	A	B	C	Holes	Size
00	787,4 (31)	850,9 (33.5)	883 (34.75)	16	M12 (1/2)
0	647,7 (25.5)	679,5 (26.75)	711 (28)	16	M12 (1/2)
1/2	584,2 (23)	619,1 (24 3/8)	648 (25.5)	12	M12 (1/2)
1	511,2 (20 1/8)	530,2 (20 7/8)	552 (21.75)	12	M10 (7/16)
2	447,7 (17 5/8)	466,7 (18 3/8)	489 (19.25)	12	M10 (3/8)
3	409,6 (16 1/8)	428,6 (16 7/8)	451 (17.75)	12	M10 (3/8)
4	362 (14.25)	381 (15)	403 (15 7/8)	12	M10 (3/8)
5	314,3 (12 3/8)	333,4 (13 1/8)	356 (14)	8	M10 (3/8)



S.A.E. Flywheel Dimensions, mm (in)

Flywheel	A	B	C	XG	Holes	Size
21	584,2 (23)	641,35 (25.25)	673,1 (26.5)	0	12	M16 (5/8)
18	498,5 (19 5/8)	542,35 (21 3/8)	571,5 (22.5)	15,7 (5/8)	6	M16 (5/8)
14	409,6 (16 1/8)	438,15 (17.25)	466,72 (18 3/8)	25,4 (1)	8	M12 (1/2)
11 1/2	314,3 (12.375)	333,37 (13.125)	352,42 (13 7/8)	39,6 (1 9/16)	8	M10 (3/8)
10	276,2 (10 7/8)	295,27 (11 5/8)	314,32 (12 3/8)	53,8 (2 1/8)	8	M10 (3/8)
8	225,4 (8 7/8)	244,47 (9 5/8)	263,52 (10 3/8)	62 (2 7/16)	6	M10 (3/8)
7 1/2	206,4 (8 1/8)	222,25 (8.75)	241,3 (9 1/2)	30,2 (1 3/16)	8	M8 (5/16)
6 1/2	184,2 (7.25)	200 (7 7/8)	215,9 (8 1/2)	30,2 (1 3/16)	6	M8 (5/16)



Available Mounting Arrangements

Adaptor	Coupling	ECP3	ECP28	ECP32	ECP34	ECO38	ECO40	ECO43	ECO46	NPE32/31
5	6.5	•	•	•						•
	7.5	•	•	•						•
	8	•	•	•						•
4	6.5	•	•	•						•
	7.5	•	•	•						•
	8	•	•	•						•
	10	•	•	•						•
3	8	•	•	•						•
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MECC ALTE SPA (HQ)

Via Roma
20 – 36051 Creazzo
Vicenza – ITALY

T: +39 0444 396111
F: +39 0444 396166
E: info@meccalte.it
aftersales@meccalte.it

MECC ALTE PORTABLE

Via A. Volta
1 37038 Soave
Verona – ITALY

T: +39 0456 173411
F: +39 0456 101880
E: info@meccalte.it
aftersales@meccalte.it

MECC ALTE POWER PRODUCTS

Via Melaro
2 – 36075 Montecchio
Maggiore (VI) – ITALY

T: +39 0444 1831295
F: +39 0444 1831306
E: info@meccalte.it
aftersales@meccalte.it

ZANARDI ALTERNATORI

Via Dei Laghi
48/B – 36077 Altavilla
Vicenza – ITALY

T: +39 0444 370799
F: +39 0444 370330
E: info@zanardialternatori.it

UNITED KINGDOM

Mecc Alte U.K. LTD
6 Lands' End Way
Oakham
Rutland LE15 6RF

T: +44 (0) 1572 771160
F: +44 (0) 1572 771161
E: info@meccalte.co.uk
aftersales@meccalte.co.uk

SPAIN

Mecc Alte España S.A.
C/ Rio Taibilla, 2
Polig. Ind. Los Valeros
03178 Benijofar (Alicante)

T: +34 (0) 96 6702152
F: +34 (0) 96 6700103
E: info@meccalte.es
aftersales@meccalte.es

CHINA

Mecc Alte Alternator Haimen LTD
755 Nanhai East Rd
Jiangsu HEDZ 226100 PRC

T: +86 (0) 513 82325758
F: +86 (0) 513 82325768
E: info@meccalte.cn
aftersales@meccalte.cn

INDIA

Mecc Alte India PVT LTD
Plot NO: 1, Sanaswadi
Talegaon
Dhamdhere Road Taluka:
Shirur, District:
Pune - 412208
Maharashtra, India

T: +91 2137 673200
F: +91 2137 673299
E: info@meccalte.in
aftersales@meccalte.in

U.S.A. AND CANADA

Mecc Alte Inc.
1229 Adams Drive
McHenry, IL, 60051

T: +1 815 344 0530
F: +1 815 344 0535
E: info@meccalte.us
aftersales@meccalte.us

GERMANY

Mecc Alte Generatoren GmbH
Ensener Weg 21
D-51149 Köln

T: +49 (0) 2203 60541-0
F: +49 (0) 2203 60541-49
E: info@meccalte.de
aftersales@meccalte.de

AUSTRALIA

Mecc Alte Alternators PTY LTD
10 Duncan Road, PO Box 1046
Dry Creek, 5094, South
Australia

T: +61 (0) 8 8349 8422
F: +61 (0) 8 8349 8455
E: info@meccalte.com.au
aftersales@meccalte.com.au

FRANCE

Mecc Alte International S.A.
Z.E. la Gagnerie
16330 St. Amant de Boixe

T: +33 (0) 545 397562
F: +33 (0) 545 398820
E: info@meccalte.fr
aftersales@meccalte.fr

FAR EAST

Mecc Alte (F.E.) PTE LTD
10V Enterprise Road, Enterprise 10
Singapore 627679

T: +65 62 657122
F: +65 62 653991
E: info@meccalte.com.sg
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