

Pfeiffer
ELEKTROMOTOREN GMBH



Totally Focused. Totally Independent.

Technical Guide

Ratings Book

Guida Tecnica

Potenze



The world's largest
independent producer of
alternators 1 – 5,000kVA

Contents

Ratings Definitions.....	6
Dynamic Data Support.....	6
Environmental Considerations.....	7



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

4 Pole Industrial | ECO & ECP /4

4 Pole 50Hz Ratings

AVR Controlled Ratings 3ph 400V 50Hz 1500rpm	9
AVR Controlled Ratings 3ph 380V 50Hz 1500rpm	10
AVR Controlled Ratings 3ph 415V 50Hz 1500rpm	11
AVR Controlled Ratings 3ph 415V 50Hz 1500rpm - Broad Voltage	12
AVR Controlled Ratings 3ph 440V 50Hz 1500rpm	13
AVR Controlled Ratings 1ph Reconnected Winding 230V 50Hz 1500rpm	14
AVR Controlled Ratings 1ph Dedicated Winding 230V 50Hz 1500rpm	15

4 Pole 60Hz Ratings

AVR Controlled Ratings 3ph 480V 60Hz 1800rpm	16
AVR Controlled Ratings 3ph 460V 60Hz 1800rpm	17
AVR Controlled Ratings 3ph 440V 60Hz 1800rpm	18
AVR Controlled Ratings 3ph 415V 60Hz 1800rpm	19
AVR Controlled Ratings 3ph 415V 60Hz 1800rpm - Broad Voltage	20
AVR Controlled Ratings 3ph 380V 60Hz 1800rpm	21
AVR Controlled Ratings 3ph Dedicated 380V 60Hz 1800rpm	22
AVR Controlled Ratings 3ph Dedicated 600V 60Hz 1800rpm	23
AVR Controlled Ratings 1ph Reconnected Winding 240V 60Hz 1800rpm	24
AVR Controlled Ratings 1ph Dedicated Winding 240V 60Hz 1800rpm	25

Total Protection Ratings

Total Protection Ratings 3ph, 50Hz 1500rpm 400V or 60Hz 1800rpm 480V	26
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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 Ratings Book](#)



Power Products Brushless Alternator with AVR

1-5,000kVA | Medium or High Voltage

For Power Products Alternator Range please refer to Power Products data sheets.



LT3N Brushless Alternators
with Capacitor 50 or 60Hz 1Phase
Lighting Tower | LT3N

LT3N Lighting Tower Style 2 and 4 pole **27**



NPE Brushless Alternators
with AVR 50 or 60Hz 1Phase or 3Phase
Space Saver | NPE

NPE Alternator Range 4 Pole **28**

NPE Alternator Range 2 Pole **29**



TE34 IP54 Brushless Alternators with AVR 50 or 60Hz
Totally Enclosed | TE34

Totally Enclosed Alternators **30**



400Hz Brushless Alternators with
AVR 50 or 60Hz 1Phase or 3Phase
400Hz | HC

HC Alternator 14/20/24 Pole 400Hz **31**



ECO & ECP Brushless Alternators
with AVR 50 or 60Hz 1Phase or 3Phase
2 Pole Industrial | ECO ECP /2

2 Pole Industrial Ratings **32**



S15, S16 & S20 Brushless Alternators with Capacitor and
Optional AVR or Brushed with AVR, 50 or 60Hz
2 Pole Portable 1Ph | S15, S16, S20 | ES16, ES20

2 Pole Portable Ratings Single Phase **33**



T16 & T20 Brushed Alternators with Transformer
or Brushed with AVR, 50 or 60Hz
2 Pole Portable 3Ph | T16, T20 | ET16F, ET20F

2 Pole Portable Ratings Three Phase **34**

Contents (Continued)

Additional Information

Wiring Connection Diagram	35
SAE Coupling and Mounting Guide	37

Rating Definitions

Standby Rating

Standby Rating is selected for supplying emergency power for the duration of normal power interruption. Overload on this rating is not allowed.

From the generator point of view, if the emergency power is required continuously for more than one hour sizing is in accordance with 150°/40° or 163°/27° conditions. Also, if the overload duration is less than one hour, then the generator accepts 10% overload above Prime Ratings for 125°/40° or the 125°/27° ratings.

In the 'Ratings Book' you can find 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.

The ratings are then suitable for supplying continuous electrical power, at variable load, for the duration of any utility power failure. These ratings allow temperature to rise above the temperature rise class H limit which can result in a shorter insulation life. The 10% overload is not available at these ratings.

Prime Rating

Prime Rating is the maximum power available at a variable load for an unlimited number of hours: it allows the possibility of a 10% overload.

This is equivalent to Prime Power in accordance with ISO8528 and Overload Power in accordance with ISO3046, AS2789, DIN6271, and BS5514. From the generator point of view, it is sized according to the class B, F, H temperature rise requirements or 125°/27° rating.

In the 'Ratings Book' you can find ratings for:

- ▶ 80°/40°: this condition is equivalent to Class B temperature rise. 10% overload on 1 hour over 6 hours is allowed.
- ▶ 105°/40°: this condition is equivalent to Class F temperature rise. 10% overload on 1 hour over 6 hours is allowed.
- ▶ 125°/40°: this condition is equivalent to Class H temperature rise. 10% overload on 1 hour over 6 hours is allowed.
- ▶ 125°/27°: ratings at this condition are equivalent to those listed for the 150°/40° condition if not listed. 10% overload on 1 hour over 6 hours is allowed.

We suggest that customers contact the local Mecc Alte Sales representative for guidance on generator selection.

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
- ▶ Ambient Temperature
- ▶ Winding
- ▶ Temperature Rise
- ▶ Phase Number
- ▶ Altitude
- ▶ Voltage
- ▶ Ingress 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.



Dynamic Data Support



Altitude Derations/Environmental

Temperature & Altitude

Environmental Concerns

Humidity & Moisture

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

Altitude (meters)	Ambient Temperature (°C)					
	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

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, total 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

Ingress Protection IP Ratings

Mecc Alte offers IP23 across its industrial range. Upgrades are available such as IP23+, 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, so for IP45 the following derates can be considered:

Ingress Protection IP45 Ratings Deration Coefficients

MODEL	DERATE COEFFICIENT	MODEL	DERATE COEFFICIENT	MODEL	DERATE COEFFICIENT
ECP3 1S4	0.846	ECP34 1S4 A	0.765	ECO43 1S4 A	0.775
ECP3 2S4	0.812	ECP34 2S4 A	0.81	ECO43 2S4 A	0.785
ECP3 1L4	0.818	ECP34 1L4 A	0.8	ECO43 1M4 A	0.780
ECP3 2L4	0.815	ECP34 2L4 A	0.8	ECO43 2M4 A	0.774
ECP3 3L4	0.8	ECP34 3L4 A	0.8	ECO43 2L4 A	0.77
ECP28 1VS4 A	0.846	ECO38 1S4 A	0.805	ECO43 VL4 A	0.77
ECP28 2VS4 A	0.845	ECO38 2S4 A	0.8	ECO46 1S4 A	0.733
ECP28 0S4 A	0.852	ECO38 3S4 A	0.8	ECO46 1.5S4 A	0.733
ECP28 S4 A	0.853	ECO38 1L4 A	0.8	ECO46 2S4 A	0.722
ECP28 M4 A	0.85	ECO38 2L4 A	0.8	ECO46 1L4 A	0.729
ECP28 2L4 A	0.84	ECO38 3L4 A	0.8	ECO46 1.5L4 A	0.729
ECP28 VL4 A	0.8	ECO40 1S4 B	0.825	ECO46 2L4 A	0.7
ECP32 2S4 B	0.829	ECO40 2S4 B	0.822	ECO46 VL4 A	0.714
ECP32 3S4 B	0.8	ECO40 3S4 B	0.82		
ECP32 1M4 B	0.8	ECO40 1L4 B	0.818		
ECP32 2M4 B	0.833	ECO40 1.5L4 B	0.768		
ECP32 3L4 B	0.8	ECO40 2L4 B	0.735		
ECP32 4L4 B	0.8	ECO40 VL4 B	0.735		

Please consult your nearest Mecc Alte representative for any rating clarification.



4 Pole | 50Hz | 3Phase

Voltage: 400 | Standard Winding - 12 Lead

RPM: 1500

Insulation: Class H



kVA @ Temp. Rise / Ambient C / 0.8 PF

MODEL	WEIGHT (kg)	LEADS	AVR	163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	7	6.8	6.5	6	5.2
ECP3 2S4	65	12	DSR	8.8	8.3	8	7.5	6.4
ECP3 1L4	79	12	DSR	11.8	11.4	11	10	8.8
ECP3 2L4	87	12	DSR	14.5	14	13.5	12.5	10.8
ECP3 3L4	93	12	DSR	16	15.5	15	14	12
ECP28 1VS4 A	79	12	DSR	8.4	8	7.8	7	6.2
ECP28 2VS4 A	86	12	DSR	11.7	11.3	11	10	8.8
ECP28 0S4 A	96	12	DSR	14.6	14	13.5	12.5	10.8
ECP28 S4 A	104	12	DSR	18	17.5	17	16	13.6
ECP28 M4 A	115	12	DSR	21.5	20.5	20	18.5	16
ECP28 2L4 A	136	12	DSR	26.5	25.5	25	23	20
ECP28 VL4 A	162	12	DSR	32.5	30.5	30	26	24
ECP32 2S4 B	180	12	DSR	39	36.7	35	33	28
ECP32 3S4 B	195	12	DSR	48	46	42.5	39	34
ECP32 1M4 B	225	12	DSR	56	52.5	50	48	40
ECP32 2M4 B	250	12	DSR	71	65.5	63	60	50
ECP32 3L4 B	290	12	DSR	83	78	75	67	60
ECP32 4L4 B	300	12	DSR	87	82	80	71	64
ECP34 1S4 A	331	12	DSR	95	90	85	77	68
ECP34 2S4 A	409	12	DSR	116	110	105	95	84
ECP34 1L4 A	467	12	DSR	148	143	135	121	108
ECP34 2L4 A	481	12	DSR	164	158	150	136	120
ECP34 3L4 A	485	12	DSR	175	169	160	145	128
ECO38 1S4 A	510	12	DSR	196	188	180	170	144
ECO38 2S4 A	560	12	DSR	220	211	200	185	160
ECO38 3S4 A	590	12	DSR	250	237	225	207	180
ECO38 1L4 A	680	12	DSR	275	264	250	230	200
ECO38 2L4 A	765	12	DSR	330	315	300	275	240
ECO38 3L4 A	905	12	DSR	370	360	350	320	280
ECO40 1S4 B	1049	12	DER-1/A	440	417	400	370	320
ECO40 2S4 B	1133	12	DER-1/A	491	468	450	410	360
ECO40 3S4 B	1208	12	DER-1/A	546	521	500	450	400
ECO40 1L4 B	1323	12	DER-1/A	601	567	550	500	440
ECO40 1.5L4 B	1458	12	DER-1/A	675	645	625	564	500
ECO40 2L4 B	1536	12	DER-1/A	735	700	680	630	544
ECO40 VL4 B	1752	12	DER-1/A	825	777	750	690	600
ECO43 1S4 A	1920	12	DER-1/A	900	840	800	730	640
ECO43 2S4 A	2275	12	DER-1/A	1016	975	930	850	744
ECO43 1M4 A	2140	12	DER-1/A	1120	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	1520	1470	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 Δ / 200 Δ Δ / 230 Δ / 400 Δ Voits

230 Δ Δ / 400 Δ Δ / 460 Δ / 800 Δ Voits

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



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	7	6.8	6.5	6	5.2
ECP3 2S4	65	12	DSR	8.8	8.3	8	7.5	6.4
ECP3 1L4	79	12	DSR	11.8	11.4	11	10	8.8
ECP3 2L4	87	12	DSR	14.5	14	13.5	12.5	10.8
ECP3 3L4	93	12	DSR	16	15.5	15	14	12
ECP28 1VS4 A	79	12	DSR	8.4	8	7.8	7	6.2
ECP28 2VS4 A	86	12	DSR	11.7	11.3	11	10	8.8
ECP28 0S4 A	96	12	DSR	14.6	14	13.5	12.5	10.8
ECP28 S4 A	104	12	DSR	18	17.5	17	16	13.6
ECP28 M4 A	115	12	DSR	21.5	20.5	20	18.5	16
ECP28 2L4 A	136	12	DSR	26.5	25.5	25	23	20
ECP28 VL4 A	162	12	DSR	32.5	30.5	30	26	24
ECP32 2S4 B	180	12	DSR	39	36.7	35	33	28
ECP32 3S4 B	195	12	DSR	48	46	42.5	39	34
ECP32 1M4 B	225	12	DSR	56	52.5	50	48	40
ECP32 2M4 B	250	12	DSR	71	65.5	63	60	50
ECP32 3L4 B	290	12	DSR	80	75	72	67	58
ECP32 4L4 B	300	12	DSR	87	82	80	71	64
ECP34 1S4 A	331	12	DSR	95	90	85	77	68
ECP34 2S4 A	409	12	DSR	116	110	105	95	84
ECP34 1L4 A	467	12	DSR	148	143	135	121	108
ECP34 2L4 A	481	12	DSR	164	158	150	136	120
ECP34 3L4 A	485	12	DSR	170	164	155	140	124
ECO38 1S4 A	510	12	DSR	196	188	180	170	144
ECO38 2S4 A	560	12	DSR	220	211	200	185	160
ECO38 3S4 A	590	12	DSR	250	237	225	207	180
ECO38 1L4 A	680	12	DSR	275	264	250	230	200
ECO38 2L4 A	765	12	DSR	330	315	300	275	240
ECO38 3L4 A	905	12	DSR	370	360	350	320	280
ECO40 1S4 B	1049	12	DER-1/A	440	417	400	370	320
ECO40 2S4 B	1133	12	DER-1/A	491	468	450	410	360
ECO40 3S4 B	1208	12	DER-1/A	546	521	500	450	400
ECO40 1L4 B	1323	12	DER-1/A	601	567	550	500	440
ECO40 1.5L4 B	1458	12	DER-1/A	675	654	625	564	500
ECO40 2L4 B	1536	12	DER-1/A	735	700	680	630	544
ECO40 VL4 B	1752	12	DER-1/A	825	777	750	690	600
ECO43 1S4 A	1920	12	DER-1/A	900	840	800	730	640
ECO43 2S4 A	2275	12	DER-1/A	1016	975	930	850	744
ECO43 1M4 A	2140	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	1520	1470	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

110 Δ Δ / 190 Δ Δ / 220 Δ Δ / 380 Δ Δ

220 Δ Δ / 380 Δ Δ / 440 Δ Δ / 760 Δ Δ

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



kVA @ Temp. Rise / Ambient C / 0.8 PF

MODEL	WEIGHT (kg)	LEADS	AVR	163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	7	6.8	6.5	6	5.2
ECP3 2S4	65	12	DSR	8.8	8.3	8	7.5	6.4
ECP3 1L4	79	12	DSR	11.8	11.4	11	10	8.8
ECP3 2L4	87	12	DSR	14.5	14	13.5	12.5	10.8
ECP3 3L4	93	12	DSR	16	15.5	15	14	12
ECP28 1VS4 A	79	12	DSR	8.4	8	7.8	7	6.2
ECP28 2VS4 A	86	12	DSR	11.7	11.3	11	10	8.8
ECP28 0S4 A	96	12	DSR	14.6	14	13.5	12.5	10.8
ECP28 S4 A	104	12	DSR	18	17.5	17	16	13.6
ECP28 M4 A	115	12	DSR	21.5	20.5	20	18.5	16
ECP28 2L4 A	136	12	DSR	26.5	25.5	25	23	20
ECP28 VL4 A	162	12	DSR	32.5	30.5	30	26	24
ECP32 2S4 B	180	12	DSR	39	36.7	35	33	28
ECP32 3S4 B	195	12	DSR	45	43	40	37	32
ECP32 1M4 B	225	12	DSR	56	52.5	50	48	40
ECP32 2M4 B	250	12	DSR	71	65.5	63	60	50
ECP32 3L4 B	290	12	DSR	83	78	75	67	60
ECP32 4L4 B	300	12	DSR	87	82	80	71	64
ECP34 1S4 A	331	12	DSR	95	90	85	77	68
ECP34 2S4 A	409	12	DSR	116	110	105	95	84
ECP34 1L4 A	467	12	DSR	148	143	135	121	108
ECP34 2L4 A	481	12	DSR	164	158	150	136	120
ECP34 3L4 A	485	12	DSR	175	169	160	145	128
ECO38 1S4 A	510	12	DSR	196	188	180	170	144
ECO38 2S4 A	560	12	DSR	220	211	200	185	160
ECO38 3S4 A	590	12	DSR	250	237	225	207	180
ECO38 1L4 A	680	12	DSR	275	264	250	230	200
ECO38 2L4 A	765	12	DSR	330	315	300	275	240
ECO38 3L4 A	905	12	DSR	370	360	350	320	280
ECO40 1S4 B	1049	12	DER-1/A	440	417	400	370	320
ECO40 2S4 B	1133	12	DER-1/A	491	468	450	410	360
ECO40 3S4 B	1208	12	DER-1/A	546	521	500	450	400
ECO40 1L4 B	1323	12	DER-1/A	590	557	540	490	432
ECO40 1.5L4 B	1458	12	DER-1/A	675	645	625	564	500
ECO40 2L4 B	1536	12	DER-1/A	735	700	680	630	544
ECO40 VL4 B	1752	12	DER-1/A	825	777	750	690	600
ECO43 1S4 A	1920	12	DER-1/A	900	840	800	730	640
ECO43 2S4 A	2275	12	DER-1/A	1016	975	930	850	744
ECO43 1M4 A	2140	12	DER-1/A	1120	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	1440	1400	1330	1210	1064
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

120 Δ / 208 Λ / 240 Δ / 415 Λ Volts

240 Δ / 415 Λ / 480 Δ / 830 Λ 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: 415 | Broad Voltage - 12 Lead

RPM: 1500

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	7	6.8	6.5	6	5.2
ECP3 2S4	65	12	DSR	8.8	8.3	8	7.5	6.4
ECP3 1L4	79	12	DSR	11.8	11.4	11	10	8.8
ECP3 2L4	87	12	DSR	14.5	14	13.5	12.5	10.8
ECP3 3L4	93	12	DSR	16	15.5	15	14	12
ECP28 1VS4 A	79	12	DSR	8.4	8	7.8	7	6.2
ECP28 2VS4 A	86	12	DSR	11.7	11.3	11	10	8.8
ECP28 0S4 A	96	12	DSR	14.6	14	13.5	12.5	10.8
ECP28 S4 A	104	12	DSR	18	17.5	17	16	13.6
ECP28 M4 A	115	12	DSR	21.5	20.5	20	18.5	16
ECP28 2L4 A	136	12	DSR	26.5	25.5	25	23	20
ECP28 VL4 A	162	12	DSR	32.5	30.5	30	26	24
ECP32 2S4 B	180	12	DSR	39	36.7	35	33	28
ECP32 3S4 B	195	12	DSR	45	43	40	37	32
ECP32 1M4 B	225	12	DSR	56	52.5	50	48	40
ECP32 2M4 B	250	12	DSR	71	65.5	63	60	50
ECP32 3L4 B	290	12	DSR	83	78	75	67	60
ECP32 4L4 B	300	12	DSR	87	82	80	71	64
ECP34 1S4 A	331	12	DSR	95	90	85	77	68
ECP34 2S4 A	409	12	DSR	116	110	105	95	84
ECP34 1L4 A	467	12	DSR	148	143	135	121	108
ECP34 2L4 A	481	12	DSR	164	158	150	136	120
ECP34 3L4 A	485	12	DSR	175	169	160	145	128
ECO38 1S4 A	510	12	DSR	196	188	180	170	144
ECO38 2S4 A	560	12	DSR	220	211	200	185	160
ECO38 3S4 A	590	12	DSR	250	237	225	207	180
ECO38 1L4 A	680	12	DSR	275	264	250	230	200
ECO38 2L4 A	765	12	DSR	330	315	300	275	240
ECO38 3L4 A	905	12	DSR	370	360	350	320	280
ECO40 1S4 B	1049	12	DER-1/A	440	417	400	370	320
ECO40 2S4 B	1133	12	DER-1/A	491	468	450	410	360
ECO40 3S4 B	1208	12	DER-1/A	546	521	500	450	400
ECO40 1L4 B	1323	12	DER-1/A	590	557	540	490	432
ECO40 1.5L4 B	1458	12	DER-1/A	675	645	625	564	500
ECO40 2L4 B	1536	12	DER-1/A	735	700	680	630	544
ECO40 VL4 B	1752	12	DER-1/A	825	777	750	690	600
ECO43 1S4 A	1920	12	DER-1/A	900	840	800	730	640
ECO43 2S4 A	2275	12	DER-1/A	1016	975	930	850	744
ECO43 1M4 A	2140	12	DER-1/A	1120	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	1440	1400	1330	1210	1064
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: 440 | Standard Winding - 12 Lead

RPM: 1500

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	5.9	5.6	5.5	5	4.4
ECP3 2S4	65	12	DSR	7.4	7	6.8	6.4	5.4
ECP3 1L4	79	12	DSR	9.6	9.4	9	8	7.2
ECP3 2L4	87	12	DSR	11.8	11.4	11	10	8.8
ECP3 3L4	93	12	DSR	12.8	12.4	12	10.5	9.6
ECP28 1VS4 A	79	12	DSR	-	-	-	-	-
ECP28 2VS4 A	86	12	DSR	-	-	-	-	-
ECP28 0S4 A	96	12	DSR	-	-	-	-	-
ECP28 S4 A	104	12	DSR	16.4	16	15.5	14.5	12.4
ECP28 M4 A	115	12	DSR	19.4	18.5	18	17	14.4
ECP28 2L4 A	136	12	DSR	-	-	-	-	-
ECP28 VL4 A	162	12	DSR	-	-	-	-	-
ECP32 2S4 B	180	12	DSR	31	29.5	28	26	22.5
ECP32 3S4 B	195	12	DSR	36.2	34.3	32	31	27.5
ECP32 1M4 B	225	12	DSR	45	42	40	38	32
ECP32 2M4 B	250	12	DSR	54	50	48	43	39
ECP32 3L4 B	290	12	DSR	78	73	70	62	56
ECP32 4L4 B	300	12	DSR	82	77	75	66	60
ECP34 1S4 A	331	12	DSR	78	75	70	63	56
ECP34 2S4 A	409	12	DSR	94	90	85	77	68
ECP34 1L4 A	467	12	DSR	124	120	114	103	91
ECP34 2L4 A	481	12	DSR	136	131	125	113	100
ECP34 3L4 A	485	12	DSR	164	158	150	135	120
ECO38 1S4 A	510	12	DSR	180	173	165	155	132
ECO38 2S4 A	560	12	DSR	209	200	190	175	152
ECO38 3S4 A	590	12	DSR	234	221	210	190	168
ECO38 1L4 A	680	12	DSR	253	243	230	215	184
ECO38 2L4 A	765	12	DSR	319	305	290	265	232
ECO38 3L4 A	905	12	DSR	360	350	340	310	272
ECO40 1S4 B	1049	12	DER-1/A	404	386	370	342	296
ECO40 2S4 B	1133	12	DER-1/A	393	375	360	330	288
ECO40 3S4 B	1208	12	DER-1/A	503	479	460	414	368
ECO40 1L4 B	1323	12	DER-1/A	546	515	500	454	400
ECO40 1.5L4 B	1458	12	DER-1/A	616	588	570	515	456
ECO40 2L4 B	1536	12	DER-1/A	560	535	520	483	416
ECO40 VL4 B	1752	12	DER-1/A	740	700	680	630	544
ECO43 1S4 A	1920	12	DER-1/A	815	790	750	663	600
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

127 Δ Δ / 220 Δ Δ / 254 Δ / 440 Δ

254 Δ Δ / 440 Δ Δ / 508 Δ / 880 Δ

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 | 1Phase

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

RPM: 1500

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1.0 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	5	4.8	4.6	4.3	3.7
ECP3 2S4	65	12	DSR	6.4	6	5.8	5.7	4.6
ECP3 1L4	79	12	DSR	8.5	8.2	8	7.3	6.4
ECP3 2L4	87	12	DSR	10	9.8	9.6	8.9	7.7
ECP3 3L4	93	12	DSR	10.7	10.3	10	9.1	8
ECP28 1VS4 A	79	12	DSR	5.3	5.1	5	4.6	4
ECP28 2VS4 A	86	12	DSR	7.5	7.2	7	6.4	5.6
ECP28 0S4 A	96	12	DSR	9	8.7	8.5	7.8	6.8
ECP28 S4 A	104	12	DSR	12.2	11.8	11.5	10.7	9.2
ECP28 M4 A	115	12	DSR	14.5	14	13.5	12.3	10.8
ECP28 2L4 A	136	12	DSR	17.5	16.7	16.5	15.1	13.2
ECP28 VL4 A	162	12	DSR	22.2	21	20.5	18.3	16.4
ECP32 2S4 B	180	12	DSR	25	24	23	22	18
ECP32 3S4 B	195	12	DSR	30	29	27	26	22
ECP32 1M4 B	225	12	DSR	33	32	30	29	24
ECP32 2M4 B	250	12	DSR	41	40	38	35	31
ECP32 3L4 B	290	12	DSR	49	46	45	42	36
ECP32 4L4 B	300	12	DSR	51	48	47	44	38
ECP34 1S4 A	331	12	DSR	61.9	60	59	55	47.2
ECP34 2S4 A	409	12	DSR	66	64	62	56	50
ECP34 1L4 A	467	12	DSR	78.8	76	74	68	59
ECP34 2L4 A	481	12	DSR	87.7	85	83	74	66
ECP34 3L4 A	485	12	DSR	89.8	87	85	76	68
ECO38 1S4 A	510	12	DSR	95	89	87	78	70
ECO38 2S4 A	560	12	DSR	100	90	88	81	71
ECO38 3S4 A	590	12	DSR	125	115	111	100	88
ECO38 1L4 A	680	12	DSR	135	125	122	109	97
ECO38 2L4 A	765	12	DSR	150	140	136	123	108
ECO38 3L4 A	905	12	DSR	170	160	156	140	125
ECO40 1S4 B	1049	12	DER-1/A	211	207	196	180	156
ECO40 2S4 B	1133	12	DER-1/A	237	232	220	204	176
ECO40 3S4 B	1208	12	DER-1/A	302	285	276	246	221
ECO40 1L4 B	1323	12	DER-1/A	315	307	292	266	233
ECO40 1.5L4 B	1458	12	DER-1/A	335	320	310	280	248
ECO40 2L4 B	1536	12	DER-1/A	360	345	335	310	268
ECO40 VL4 B	1752	12	DER-1/A	470	450	435	366	348

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

Consult Factory to choose for your application.

Ratings with damper cage.

Indicated voltage references to Zigzag connection.

Delta or Double Delta single phase connection available.

4 Pole | 50Hz | 1Phase

Voltage: 220/230/240 | Dedicated Winding - 4 Lead

RPM: 1500

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1.0 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	4	DSR	5.4	5.1	5	4.6	4
ECP3 2S4	65	4	DSR	6.6	6.2	6	5.6	4.8
ECP3 1L4	79	4	DSR	9.1	8.8	8.5	7.7	6.8
ECP3 2L4	87	4	DSR	10.7	10.3	10	9.3	8
ECP3 3L4	93	4	DSR	11.7	11.3	11	9.8	8.8
ECP28 1VS4 A	79	4	DSR	5.9	5.6	5.5	5	4.4
ECP28 2VS4 A	86	4	DSR	8	7.7	7.5	6.9	6
ECP28 0S4 A	96	4	DSR	9.7	9.2	9	8.2	7.2
ECP28 S4 A	104	4	DSR	13.2	12.8	12.5	11.7	10
ECP28 M4 A	115	4	DSR	15.6	14.8	14.5	13.2	11.6
ECP28 2L4 A	136	4	DSR	19.1	18.3	18	16.3	14.4
ECP28 VL4 A	162	4	DSR	23.8	22.6	22	20	17.6
ECP32 2S4 B	180	4	DSR	31	29	28	26.5	22.4
ECP32 3S4 B	195	4	DSR	35	32	31	28.5	24.8
ECP32 1M4 B	225	4	DSR	40	37	36	34.5	28.8
ECP32 2M4 B	250	4	DSR	45	41	40	38	32
ECP32 3L4 B	290	4	DSR	50	47.1	46	41	37
ECP32 4L4 B	300	4	DSR	51	48	47	44	38
ECP34 1S4 A	331	4	DSR	72.5	67	65	61	52
ECP34 2S4 A	409	4	DSR	78	73	70	64	56
ECP34 1L4 A	467	4	DSR	87.5	83	80	73	64
ECP34 2L4 A	481	4	DSR	90.5	85	83	76	66
ECP34 3L4 A	485	4	DSR	94	88	86	79	69

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

Consult Factory to choose for your application.

Ratings with damper cage.

4 Pole | 60Hz | 3Phase

Voltage: 480 | Standard Winding - 12 Lead

RPM: 1800

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	8.4	8	7.8	7.2	6.2
ECP3 2S4	65	12	DSR	10.5	10	9.6	9	7.7
ECP3 1L4	79	12	DSR	14.3	13.8	13.2	12	10.6
ECP3 2L4	87	12	DSR	17.5	16.9	16.2	15	13
ECP3 3L4	93	12	DSR	19.3	18.8	18	16.5	14.4
ECP28 1VS4 A	79	12	DSR	10	9.7	9.4	8.5	7.5
ECP28 2VS4 A	86	12	DSR	14	13.6	13.2	12	10.6
ECP28 0S4 A	96	12	DSR	17.5	16.7	16.2	15	13
ECP28 S4 A	104	12	DSR	21.6	21	20.4	19	16.3
ECP28 M4 A	115	12	DSR	25.8	24.6	24	22	19.2
ECP28 2L4 A	136	12	DSR	31.8	30.6	30	27.5	24
ECP28 VL4 A	162	12	DSR	38.4	36.6	36	32	29
ECP32 2S4 B	180	12	DSR	47	44	42	40	34
ECP32 3S4 B	195	12	DSR	57	54	51	49	41
ECP32 1M4 B	225	12	DSR	67	63	60	58	48
ECP32 2M4 B	250	12	DSR	83	78	75.5	72	60
ECP32 3L4 B	290	12	DSR	100	93.7	90	83	72
ECP32 4L4 B	300	12	DSR	104	98	96	88	77
ECP34 1S4 A	331	12	DSR	114	108	102	92	81
ECP34 2S4 A	409	12	DSR	139	132	126	114	101
ECP34 1L4 A	467	12	DSR	178	172	162	146	130
ECP34 2L4 A	481	12	DSR	196	189	180	163	144
ECP34 3L4 A	485	12	DSR	210	202	192	173	154
ECO38 1S4 A	510	12	DSR	236	230	220	205	176
ECO38 2S4 A	560	12	DSR	264	253	240	220	192
ECO38 3S4 A	590	12	DSR	300	284	270	250	216
ECO38 1L4 A	680	12	DSR	330	316	300	280	240
ECO38 2L4 A	765	12	DSR	396	378	360	330	288
ECO38 3L4 A	905	12	DSR	444	432	420	385	336
ECO40 1S4 B	1049	12	DER-1/A	525	500	480	440	384
ECO40 2S4 B	1133	12	DER-1/A	590	563	540	490	432
ECO40 3S4 B	1208	12	DER-1/A	656	625	600	540	480
ECO40 1L4 B	1323	12	DER-1/A	722	680	660	600	528
ECO40 1.5L4 B	1458	12	DER-1/A	810	775	750	677	600
ECO40 2L4 B	1536	12	DER-1/A	882	840	816	756	653
ECO40 VL4 B	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	2275	12	DER-1/A	1220	1170	1116	1020	893
ECO43 1M4 A	2140	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	1870	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 Δ Δ / 277 Δ / 480 Δ Volts

277 Δ Δ / 480 Δ Δ / 554 Δ / 960 Δ 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



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	8.4	8	7.8	7.2	6.2
ECP3 2S4	65	12	DSR	10.5	10	9.6	9	7.7
ECP3 1L4	79	12	DSR	14.3	13.8	13.2	12	10.6
ECP3 2L4	87	12	DSR	17.5	16.9	16.2	15	13
ECP3 3L4	93	12	DSR	19.3	18.8	18	16.5	14.4
ECP28 1VS4 A	79	12	DSR	10	9.7	9.4	8.5	7.5
ECP28 2VS4 A	86	12	DSR	14	13.6	13.2	12	10.6
ECP28 0S4 A	96	12	DSR	17.5	16.7	16.2	15	13
ECP28 S4 A	104	12	DSR	21.6	21	20.4	19	16.3
ECP28 M4 A	115	12	DSR	25.8	24.6	24	22	19.2
ECP28 2L4 A	136	12	DSR	31.8	30.6	30	27.5	24
ECP28 VL4 A	162	12	DSR	38.4	36.6	36	32	29
ECP32 2S4 B	180	12	DSR	47	44	42	40	34
ECP32 3S4 B	195	12	DSR	57	54	51	49	41
ECP32 1M4 B	225	12	DSR	67	63	60	58	48
ECP32 2M4 B	250	12	DSR	83	78	75.5	72	60
ECP32 3L4 B	290	12	DSR	97	91	87	83	70
ECP32 4L4 B	300	12	DSR	104	98	96	88	77
ECP34 1S4 A	331	12	DSR	114	108	102	92	81
ECP34 2S4 A	409	12	DSR	139	132	126	114	101
ECP34 1L4 A	467	12	DSR	178	172	162	146	130
ECP34 2L4 A	481	12	DSR	196	189	180	163	144
ECP34 3L4 A	485	12	DSR	210	202	192	173	154
ECO38 1S4 A	510	12	DSR	236	230	220	205	176
ECO38 2S4 A	560	12	DSR	264	253	240	220	192
ECO38 3S4 A	590	12	DSR	300	284	270	250	216
ECO38 1L4 A	680	12	DSR	330	316	300	280	240
ECO38 2L4 A	765	12	DSR	396	378	360	330	288
ECO38 3L4 A	905	12	DSR	444	432	420	385	336
ECO40 1S4 B	1049	12	DER-1/A	525	500	480	440	384
ECO40 2S4 B	1133	12	DER-1/A	590	563	540	490	432
ECO40 3S4 B	1208	12	DER-1/A	656	625	600	540	480
ECO40 1L4 B	1323	12	DER-1/A	722	680	660	600	528
ECO40 1.5L4 B	1458	12	DER-1/A	810	775	750	677	600
ECO40 2L4 B	1536	12	DER-1/A	882	840	816	756	653
ECO40 VL4 B	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	2275	12	DER-1/A	1220	1170	1116	1020	893
ECO43 1M4 A	2140	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	1870	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

133 Δ Δ / 230 Δ Δ / 266 Δ Δ / 460 Δ Δ

266 Δ Δ / 530 Δ Δ / 480 Δ Δ / 920 Δ Δ

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



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	8.4	8	7.8	7.2	6.2
ECP3 2S4	65	12	DSR	10.5	10	9.6	9	7.7
ECP3 1L4	79	12	DSR	14.3	13.8	13.2	12	10.6
ECP3 2L4	87	12	DSR	17.5	16.9	16.2	15	13
ECP3 3L4	93	12	DSR	19.3	18.8	18	16.5	14.4
ECP28 1VS4 A	79	12	DSR	9.4	9	8.8	7.8	7
ECP28 2VS4 A	86	12	DSR	13.1	12.8	12.4	11	9.9
ECP28 0S4 A	96	12	DSR	16.2	15.5	15	13.5	12
ECP28 S4 A	104	12	DSR	19.7	19.1	18.6	17.5	15
ECP28 M4 A	115	12	DSR	25	23.6	23	20	18.4
ECP28 2L4 A	136	12	DSR	29	28	27.5	25.5	22
ECP28 VL4 A	162	12	DSR	38.4	36.6	36	32	28.8
ECP32 2S4 B	180	12	DSR	45	42	40	38	32
ECP32 3S4 B	195	12	DSR	54	51	48	46	38
ECP32 1M4 B	225	12	DSR	67	63	60	58	48
ECP32 2M4 B	250	12	DSR	80	75	73	70	58
ECP32 3L4 B	290	12	DSR	91	86	82	80	66
ECP32 4L4 B	300	12	DSR	100	94	92	85	74
ECP34 1S4 A	331	12	DSR	114	108	102	92	81
ECP34 2S4 A	409	12	DSR	139	132	126	114	101
ECP34 1L4 A	467	12	DSR	165	159	150	135	120
ECP34 2L4 A	481	12	DSR	185	178	170	150	136
ECP34 3L4 A	485	12	DSR	202	195	185	160	148
ECO38 1S4 A	510	12	DSR	236	230	220	205	176
ECO38 2S4 A	560	12	DSR	264	253	240	220	192
ECO38 3S4 A	590	12	DSR	300	284	270	250	216
ECO38 1L4 A	680	12	DSR	330	316	300	280	240
ECO38 2L4 A	765	12	DSR	374	357	340	310	272
ECO38 3L4 A	905	12	DSR	444	432	420	385	336
ECO40 1S4 B	1049	12	DER-1/A	492	469	450	410	360
ECO40 2S4 B	1133	12	DER-1/A	557	532	510	460	408
ECO40 3S4 B	1208	12	DER-1/A	634	604	580	520	464
ECO40 1L4 B	1323	12	DER-1/A	669	649	630	570	504
ECO40 1.5L4 B	1458	12	DER-1/A	762	730	705	636	564
ECO40 2L4 B	1536	12	DER-1/A	843	803	780	720	624
ECO40 VL4 B	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	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 Δ / 220 Δ Δ / 254 Δ Δ / 440 Δ Δ

254 Δ Δ / 440 Δ Δ / 508 Δ Δ / 880 Δ Δ

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



kVA @ Temp. Rise / Ambient C / 0.8 PF

MODEL	WEIGHT (kg)	LEADS	AVR	163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	7.5	7.2	7	6.5	5.6
ECP3 2S4	65	12	DSR	9.8	9.4	9	7.5	7.2
ECP3 1L4	79	12	DSR	12.9	12.4	12	11	9.6
ECP3 2L4	87	12	DSR	15.1	14.6	14	12.5	11.2
ECP3 3L4	93	12	DSR	17.1	16.7	16	14.5	12.8
ECP28 1VS4 A	79	12	DSR	8.8	8.6	8.3	7.5	6.6
ECP28 2VS4 A	86	12	DSR	12.2	11.8	11.5	10.5	9.2
ECP28 0S4 A	96	12	DSR	15.1	14.4	14	13	11.2
ECP28 S4 A	104	12	DSR	18.5	18	17.5	16.5	14
ECP28 M4 A	115	12	DSR	22.5	21.5	21	19	16.8
ECP28 2L4 A	136	12	DSR	27.5	26.5	26	24	20.8
ECP28 VL4 A	162	12	DSR	35.2	33.5	33	29	26.4
ECP32 2S4 B	180	12	DSR	41	39	37	35	29.6
ECP32 3S4 B	195	12	DSR	50	48	45	41	36
ECP32 1M4 B	225	12	DSR	62	58	55	53	44
ECP32 2M4 B	250	12	DSR	76	72	70	64	56
ECP32 3L4 B	290	12	DSR	87	81	78	73	62
ECP32 4L4 B	300	12	DSR	92	87	85	78	68
ECP34 1S4 A	331	12	DSR	106	101	95	85.5	76
ECP34 2S4 A	409	12	DSR	127	120	115	104	92
ECP34 1L4 A	467	12	DSR	153	148	140	125	112
ECP34 2L4 A	481	12	DSR	163	158	150	132	120
ECP34 3L4 A	485	12	DSR	180	174	165	150	132
ECO38 1S4 A	510	12	DSR	225	220	210	195	168
ECO38 2S4 A	560	12	DSR	253	242	230	210	184
ECO38 3S4 A	590	12	DSR	289	274	260	240	208
ECO38 1L4 A	680	12	DSR	319	305	290	270	232
ECO38 2L4 A	765	12	DSR	358	341	325	300	260
ECO38 3L4 A	905	12	DSR	402	391	380	350	304
ECO40 1S4 B	1049	12	DER-1/A	459	438	420	383	336
ECO40 2S4 B	1133	12	DER-1/A	524	500	480	435	384
ECO40 3S4 B	1208	12	DER-1/A	590	563	540	484	432
ECO40 1L4 B	1323	12	DER-1/A	623	587	570	515	456
ECO40 1.5L4 B	1458	12	DER-1/A	720	688	665	605	532
ECO40 2L4 B	1536	12	DER-1/A	778	741	720	665	576
ECO40 VL4 B	1752	12	DER-1/A	930	885	860	790	688
ECO43 1S4 A	1920	12	DER-1/A	962	924	880	800	704
ECO43 2S4 A	2275	12	DER-1/A	1115	1069	1020	935	816
ECO43 1M4 A	2140	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 / 208 Δ / 240 Δ / 415 Δ / 415 A Volts

240 Δ / 415 Δ / 480 Δ / 830 Δ / 830 A 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 | Broad Voltage - 12 Lead

RPM: 1800

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	7.5	7.2	7	6.5	5.6
ECP3 2S4	65	12	DSR	9.8	9.4	9	7.5	7.2
ECP3 1L4	79	12	DSR	12.9	12.4	12	11	9.6
ECP3 2L4	87	12	DSR	15.1	14.6	14	12.5	11.2
ECP3 3L4	93	12	DSR	17.1	16.7	16	14.5	12.8
ECP28 1VS4 A	79	12	DSR	8.8	8.6	8.3	7.5	6.6
ECP28 2VS4 A	86	12	DSR	12.2	11.8	11.5	10.5	9.2
ECP28 0S4 A	96	12	DSR	15.1	14.4	14	13	11.2
ECP28 S4 A	104	12	DSR	18.5	18	17.5	16.5	14
ECP28 M4 A	115	12	DSR	22.5	21.5	21	19	16.8
ECP28 2L4 A	136	12	DSR	27.5	26.5	26	24	20.8
ECP28 VL4 A	162	12	DSR	35.2	33.5	33	29	26.4
ECP32 2S4 B	180	12	DSR	41	39	37	35	29.6
ECP32 3S4 B	195	12	DSR	50	48	45	41	36
ECP32 1M4 B	225	12	DSR	62	58	55	53	44
ECP32 2M4 B	250	12	DSR	76	72	70	64	56
ECP32 3L4 B	290	12	DSR	87	81	78	73	62
ECP32 4L4 B	300	12	DSR	92	87	85	78	68
ECP34 1S4 A	331	12	DSR	106	101	95	85.5	76
ECP34 2S4 A	409	12	DSR	127	120	115	104	92
ECP34 1L4 A	467	12	DSR	153	148	140	125	112
ECP34 2L4 A	481	12	DSR	163	158	150	132	120
ECP34 3L4 A	485	12	DSR	180	174	165	150	132
ECO38 1S4 A	510	12	DSR	225	220	210	195	168
ECO38 2S4 A	560	12	DSR	253	242	230	210	184
ECO38 3S4 A	590	12	DSR	289	274	260	240	208
ECO38 1L4 A	680	12	DSR	319	305	290	270	232
ECO38 2L4 A	765	12	DSR	358	341	325	300	260
ECO38 3L4 A	905	12	DSR	402	391	380	350	304
ECO40 1S4 B	1049	12	DER-1/A	459	438	420	383	336
ECO40 2S4 B	1133	12	DER-1/A	524	500	480	435	384
ECO40 3S4 B	1208	12	DER-1/A	590	563	540	484	432
ECO40 1L4 B	1323	12	DER-1/A	623	587	570	515	456
ECO40 1.5L4 B	1458	12	DER-1/A	720	688	665	605	532
ECO40 2L4 B	1536	12	DER-1/A	778	741	720	665	576
ECO40 VL4 B	1752	12	DER-1/A	930	885	860	790	688
ECO43 1S4 A	1920	12	DER-1/A	962	924	880	800	704
ECO43 2S4 A	2275	12	DER-1/A	1115	1069	1020	935	816
ECO43 1M4 A	2140	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.

4 Pole | 60Hz | 3Phase

Voltage: 380 | Standard Winding - 12 Lead

RPM: 1800

Insulation: Class H



kVA @ Temp. Rise / Ambient C / 0.8 PF

MODEL	WEIGHT (kg)	LEADS	AVR	163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	7	6.8	6.5	6	5.2
ECP3 2S4	65	12	DSR	8.8	8.3	8	7.3	6.4
ECP3 1L4	79	12	DSR	11.8	11.4	11	10	8.8
ECP3 2L4	87	12	DSR	14.5	14	13.5	12.3	10.8
ECP3 3L4	93	12	DSR	16	15.5	15	13.7	12
ECP28 1VS4 A	79	12	DSR	8.3	8.1	7.8	7	6.2
ECP28 2VS4 A	86	12	DSR	11.7	11.3	11	10	8.8
ECP28 0S4 A	96	12	DSR	14.6	13.9	13.5	12.5	10.8
ECP28 S4 A	104	12	DSR	18	17.5	17	16	13.6
ECP28 M4 A	115	12	DSR	21.5	20.5	20	18.5	16
ECP28 2L4 A	136	12	DSR	26.5	25.5	25	23	20
ECP28 VL4 A	162	12	DSR	32	31	30	26	24
ECP32 2S4 B	180	12	DSR	39	36.7	35	33	28
ECP32 3S4 B	195	12	DSR	48	46	42.5	39	34
ECP32 1M4 B	225	12	DSR	56	52.5	50	48	40
ECP32 2M4 B	250	12	DSR	71	65.5	63	58	50
ECP32 3L4 B	290	12	DSR	83	80	75	67	60
ECP32 4L4 B	300	12	DSR	88	83	80	72	66
ECP34 1S4 A	331	12	DSR	95	90	85	77	68
ECP34 2S4 A	409	12	DSR	116	110	105	95	84
ECP34 1L4 A	467	12	DSR	148	143	135	122	108
ECP34 2L4 A	481	12	DSR	164	158	150	136	120
ECP34 3L4 A	485	12	DSR	175	169	160	145	128
ECO38 1S4 A	510	12	DSR	196	188	180	170	144
ECO38 2S4 A	560	12	DSR	220	211	200	185	160
ECO38 3S4 A	590	12	DSR	250	237	225	207	180
ECO38 1L4 A	680	12	DSR	275	263	250	230	200
ECO38 2L4 A	765	12	DSR	330	315	300	275	240
ECO38 3L4 A	905	12	DSR	370	360	350	320	280
ECO40 1S4 B	1049	12	DER-1/A	448	427	410	375	328
ECO40 2S4 B	1133	12	DER-1/A	502	480	460	421	368
ECO40 3S4 B	1208	12	DER-1/A	558	531	510	467	408
ECO40 1L4 B	1323	12	DER-1/A	613	577	560	513	448
ECO40 1.5L4 B	1458	12	DER-1/A	686	657	635	580	508
ECO40 2L4 B	1536	12	DER-1/A	746	710	690	632	552
ECO40 VL4 B	1752	12	DER-1/A	824	785	763	700	610
ECO43 1S4 A	1920	12	DER-1/A	896	861	820	751	656
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 ΔΔ / 190 ΔΔ / 220 Δ / 380 Δ Volts

220 ΔΔ / 380 ΔΔ / 440 Δ / 760 Δ 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.

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

4 Pole | 60Hz | 3Phase

Voltage: 380 | Special Winding - Dedicated - 12 Lead

RPM: 1800

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	8.4	8	7.8	7.2	6.2
ECP3 2S4	65	12	DSR	10.5	10	9.6	9	7.7
ECP3 1L4	79	12	DSR	14.3	13.8	13.2	12	10.6
ECP3 2L4	87	12	DSR	17.5	16.9	16.2	15	13
ECP3 3L4	93	12	DSR	19.3	18.8	18	16.5	14.4
ECP28 1VS4 A	79	12	DSR	10	9.7	9.4	8.5	7.5
ECP28 2VS4 A	86	12	DSR	14	13.6	13.2	12	10.6
ECP28 0S4 A	96	12	DSR	17.5	16.7	16.2	15	13
ECP28 S4 A	104	12	DSR	21.6	21	20.4	19	16.3
ECP28 M4 A	115	12	DSR	25.8	24.6	24	22	19.2
ECP28 2L4 A	136	12	DSR	31.8	30.6	30	27.5	24
ECP28 VL4 A	162	12	DSR	38.4	36.6	36	32	29
ECP32 2S4 B	180	12	DSR	47	44	42	40	34
ECP32 3S4 B	195	12	DSR	57	54	51	49	41
ECP32 1M4 B	225	12	DSR	67	63	60	58	48
ECP32 2M4 B	250	12	DSR	83	78	75.5	72	60
ECP32 3L4 B	290	12	DSR	100	93.7	90	83	72
ECP32 4L4 B	300	12	DSR	104	98	96	88	77
ECP34 1S4 A	331	12	DSR	114	108	102	92	81
ECP34 2S4 A	409	12	DSR	139	132	126	114	101
ECP34 1L4 A	467	12	DSR	178	172	162	146	130
ECP34 2L4 A	481	12	DSR	196	189	180	163	144
ECP34 3L4 A	485	12	DSR	210	202	192	173	154
ECO38 1S4 A	510	12	DSR	236	230	220	205	176
ECO38 2S4 A	560	12	DSR	264	253	240	220	192
ECO38 3S4 A	590	12	DSR	300	284	270	250	216
ECO38 1L4 A	680	12	DSR	330	316	300	280	240
ECO38 2L4 A	765	12	DSR	396	378	360	330	288
ECO38 3L4 A	905	12	DSR	444	432	420	385	336
ECO40 1S4 B	1049	12	DER-1/A	525	500	480	440	384
ECO40 2S4 B	1133	12	DER-1/A	590	563	540	490	432
ECO40 3S4 B	1208	12	DER-1/A	656	625	600	540	480
ECO40 1L4 B	1323	12	DER-1/A	690	650	630	573	504
ECO40 1.5L4 B	1458	12	DER-1/A	810	775	750	677	600
ECO40 2L4 B	1536	12	DER-1/A	882	840	816	756	653
ECO40 VL4 B	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	1870	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	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	-	-	-	-	-

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



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 0.8 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	8.4	8	7.8	7.2	6.2
ECP3 2S4	65	12	DSR	10.5	10	9.6	9	7.7
ECP3 1L4	79	12	DSR	14.3	13.8	13.2	12	10.6
ECP3 2L4	87	12	DSR	17.5	16.9	16.2	15	13
ECP3 3L4	93	12	DSR	19.3	18.8	18	16.5	14.4
ECP28 1VS4 A	79	12	DSR	10	9.7	9.4	8.5	7.5
ECP28 2VS4 A	86	12	DSR	14	13.6	13.2	12	10.6
ECP28 0S4 A	96	12	DSR	17.5	16.7	16.2	15	13
ECP28 S4 A	104	12	DSR	21.6	21	20.4	19	16.3
ECP28 M4 A	115	12	DSR	25.8	24.6	24	22	19.2
ECP28 2L4 A	136	12	DSR	31.8	30.6	30	27.5	24
ECP28 VL4 A	162	12	DSR	38.4	36.6	36	32	29
ECP32 2S4 B	180	12	DSR	47	44	42	40	34
ECP32 3S4 B	195	12	DSR	57	54	51	49	41
ECP32 1M4 B	225	12	DSR	67	63	60	58	48
ECP32 2M4 B	250	12	DSR	83	78	75.5	72	60
ECP32 3L4 B	290	12	DSR	100	93.7	90	83	72
ECP32 4L4 B	300	12	DSR	104	98	96	88	77
ECP34 1S4 A	331	12	DSR	114	108	102	92	81
ECP34 2S4 A	409	12	DSR	139	132	126	114	101
ECP34 1L4 A	467	12	DSR	178	172	162	146	130
ECP34 2L4 A	481	12	DSR	196	189	180	163	144
ECP34 3L4 A	485	12	DSR	210	202	192	173	154
ECO38 1S4 A	510	12	DSR	236	230	220	205	176
ECO38 2S4 A	560	12	DSR	264	253	240	220	192
ECO38 3S4 A	590	12	DSR	300	284	270	250	216
ECO38 1L4 A	680	12	DSR	308	295	280	260	224
ECO38 2L4 A	765	12	DSR	396	378	360	330	288
ECO38 3L4 A	905	12	DSR	444	432	420	385	336
ECO40 1S4 B	1049	12	DER-1/A	525	500	480	440	384
ECO40 2S4 B	1133	12	DER-1/A	590	563	540	490	432
ECO40 3S4 B	1208	12	DER-1/A	656	625	600	540	480
ECO40 1L4 B	1323	12	DER-1/A	722	680	660	600	528
ECO40 1.5L4 B	1458	12	DER-1/A	810	775	750	677	600
ECO40 2L4 B	1536	12	DER-1/A	809	772	770	713	616
ECO40 VL4 B	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	2275	12	DER-1/A	1220	1170	1116	1020	893
ECO43 1M4 A	2140	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 | 1Phase

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

RPM: 1800

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1.0 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	12	DSR	5.3	5	4.8	4.4	3.8
ECP3 2S4	65	12	DSR	6.8	6.4	6.2	5.8	5
ECP3 1L4	79	12	DSR	9	8.5	8.2	7.5	6.6
ECP3 2L4	87	12	DSR	10.7	10	9.8	9	7.8
ECP3 3L4	93	12	DSR	11.5	10.8	10.5	9.6	8.4
ECP28 1VS4 A	79	12	DSR	5.7	5.6	5.5	5	4.4
ECP28 2VS4 A	86	12	DSR	8	7.8	7.6	7	6.1
ECP28 0S4 A	96	12	DSR	9.8	9.6	9.4	8.6	7.5
ECP28 S4 A	104	12	DSR	12.7	12.3	12	11	9.6
ECP28 M4 A	115	12	DSR	15.1	14.5	14	13	11
ECP28 2L4 A	136	12	DSR	18	17.6	17	15	13.6
ECP28 VL4 A	162	12	DSR	23	22	21	19.5	16.8
ECP32 2S4 B	180	12	DSR	27	26	24	23	19
ECP32 3S4 B	195	12	DSR	31	30	28	27	23
ECP32 1M4 B	225	12	DSR	35	34	32	31	26
ECP32 2M4 B	250	12	DSR	43.5	42	40	37	32
ECP32 3L4 B	290	12	DSR	52	50	48	45	38
ECP32 4L4 B	300	12	DSR	55	53	51	48	41
ECP34 1S4 A	331	12	DSR	61.6	60	58	55	46.4
ECP34 2S4 A	409	12	DSR	64.6	63	61	56	49
ECP34 1L4 A	467	12	DSR	77.4	75	73	66	58
ECP34 2L4 A	481	12	DSR	87.2	85	82	74	66
ECP34 3L4 A	485	12	DSR	88.2	86	84	76	67
ECO38 1S4 A	510	12	DSR	95	88	86	78	69
ECO38 2S4 A	560	12	DSR	97	91	88	80	70
ECO38 3S4 A	590	12	DSR	118	114	110	100	88
ECO38 1L4 A	680	12	DSR	130	124	120	108	96
ECO38 2L4 A	765	12	DSR	148	141	135	123	108
ECO38 3L4 A	905	12	DSR	170	160	155	140	124
ECO40 1S4 B	1049	12	DER-1/A	210	206	195	179	155
ECO40 2S4 B	1133	12	DER-1/A	236	230	219	203	175
ECO40 3S4 B	1208	12	DER-1/A	300	283	275	245	220
ECO40 1L4 B	1323	12	DER-1/A	313	305	290	264	232
ECO40 1.5L4 B	1458	12	DER-1/A	330	315	305	275	244
ECO40 2L4 B	1536	12	DER-1/A	350	340	330	307	264
ECO40 VL4 B	1752	12	DER-1/A	430	410	400	375	320

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

All the above machines are 12 lead. The Weights are the same as the 'standard' 3 phase Models.

Indicated voltage references to Zigzag connection.

Delta or Double Delta single phase connections available.

Consult Factory to choose for your application.

4 Pole | 60Hz | 1Phase

Voltage: 220/230/240 | Dedicated Winding - 4 Lead

RPM: 1800

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1.0 PF				
				163/27	150/40	125/40 [H]	105/40 [F]	80/40 [B]
ECP3 1S4	59	4	DSR	6.2	6.1	6	5.6	4.8
ECP3 2S4	65	4	DSR	7.8	7.7	7.5	7.1	6
ECP3 1L4	79	4	DSR	10.5	10.3	10	9.2	8
ECP3 2L4	87	4	DSR	12.5	12.4	12	11.1	9.6
ECP3 3L4	93	4	DSR	14.1	13.9	13.5	12.5	10.8
ECP28 1VS4 A	79	4	DSR	6.7	6.6	6.5	6	5.2
ECP28 2VS4 A	86	4	DSR	9.3	9.2	9	8.2	7.2
ECP28 0S4 A	96	4	DSR	11.4	11.3	11	10	8.8
ECP28 S4 A	104	4	DSR	15.5	15.4	15	13.9	12
ECP28 M4 A	115	4	DSR	17.4	17.3	17	15.9	13.6
ECP28 2L4 A	136	4	DSR	22.4	22.3	22	20.4	17.6
ECP28 VL4 A	162	4	DSR	25.8	25.7	25	22	20
ECP32 2S4 B	180	4	DSR	37.5	37	36	34.5	28.8
ECP32 3S4 B	195	4	DSR	42.5	41	40	38	32
ECP32 1M4 B	225	4	DSR	46	45	44	42	35
ECP32 2M4 B	250	4	DSR	51	50	48	45.5	38
ECP32 3L4 B	290	4	DSR	58	57	55	52	44
ECP32 4L4 B	300	4	DSR	60	59	57	54	46
ECP34 1S4 A	331	4	DSR	82.5	80	78	73	62
ECP34 2S4 A	409	4	DSR	88	87	84	76	67
ECP34 1L4 A	467	4	DSR	104	101	98	90	78
ECP34 2L4 A	481	4	DSR	105	103	100	92	80
ECP34 3L4 A	485	4	DSR	110	108	105	96	84

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

All the above machines are 4 lead. Ratings with damper cage.

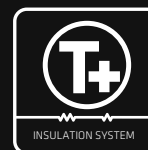
Consult Factory to choose for your application.

4 Pole | 50/60Hz | 3Phase

Voltage: 400 | 480

RPM: 1500 | 1800

Insulation: Class H



Total, Total + Protection

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C			
				50Hz		60Hz	
				125/40 [H]	105/40 [F]	125/40 [H]	105/40 [F]
ECP3 1S4	59	12	DSR	6.5	6	7.8	7.2
ECP3 2S4	65	12	DSR	8	7.5	9.6	9
ECP3 1L4	79	12	DSR	11	10	13.2	12
ECP3 2L4	87	12	DSR	13.5	12.5	16.2	15
ECP3 3L4	93	12	DSR	15	14	18	16.5
ECP28 1VS4 A	79	12	DSR	7.8	7	9.4	8.5
ECP28 2VS4 A	86	12	DSR	11	10	13.2	12
ECP28 0S4 A	96	12	DSR	13.5	12.5	16.2	15
ECP28 S4 A	104	12	DSR	17	16	20.4	19
ECP28 M4 A	115	12	DSR	20	18.5	24	22
ECP28 2L4 A	136	12	DSR	25	23	30	27.5
ECP28 VL4 A	162	12	DSR	29	25	35	31
ECP32 2S4 B	180	12	DSR	35	33	42	40
ECP32 3S4 B	195	12	DSR	42.5	39	51	49
ECP32 1M4 B	225	12	DSR	50	48	60	58
ECP32 2M4 B	250	12	DSR	63	60	75.5	72
ECP32 3L4 B	290	12	DSR	72	64	87	80
ECP32 4L4 B	300	12	DSR	78	69	93	85
ECP34 1S4 A	331	12	DSR	85	77	102	92
ECP34 2S4 A	409	12	DSR	105	95	126	114
ECP34 1L4 A	467	12	DSR	135	121	162	146
ECP34 2L4 A	481	12	DSR	150	136	180	163
ECP34 3L4 A	485	12	DSR	155	140	186	168
ECO38 1S4 A	510	12	DSR	180	170	220	205
ECO38 2S4 A	560	12	DSR	200	185	240	220
ECO38 3S4 A	590	12	DSR	225	207	270	250
ECO38 1L4 A	680	12	DSR	250	230	300	280
ECO38 2L4 A	765	12	DSR	291	266	349	320
ECO38 3L4 A	905	12	DSR	340	310	407	373
ECO40 1S4 B	1049	12	DER-1/A	400	370	480	440
ECO40 2S4 B	1133	12	DER-1/A	450	410	540	490
ECO40 3S4 B	1208	12	DER-1/A	500	450	600	540
ECO40 1L4 B	1323	12	DER-1/A	550	500	660	600
ECO40 1.5L4 B	1458	12	DER-1/A	606	547	727	657
ECO40 2L4 B	1536	12	DER-1/A	660	611	791	733
ECO40 VL4 B	1752	12	DER-1/A	727	670	873	805
ECO43 1S4 A	1920	12	DER-1/A	800	730	960	875
ECO43 2S4 A	2140	12	DER-1/A	930	850	1116	1020
ECO43 1M4 A	2275	12	DER-1/A	1025	950	1250	1140
ECO43 2M4 A	2370	12	DER-1/A	1115	1018	1358	1261
ECO43 2L4 A	2700	12	DER-1/A	1261	1164	1513	1397
ECO43 VL4 A	2980	12	DER-1/A	1358	1241	1649	1494
ECO46 1S4 A	3005	12	DER-1/A	1455	1309	1746	1571
ECO46 1.5S4 A	3375	12	DER-1/A	1601	1435	1921	1727
ECO46 2S4 A	3560	12	DER-1/A	1746	1552	2095	1862
ECO46 1L4 A	3805	12	DER-1/A	2037	1843	2444	2212
ECO46 1.5L4 A	4255	12	DER-1/A	2231	1988	2677	2386
ECO46 2L4 A	4375	12	DER-1/A	2425	2182	2910	2619
ECO46 VL4 A	5120	12	DER-1/A	2716	2425	3308	2958

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

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

RPM: 1500/1800

Insulation: Class H

4 Pole			kVA @ 230/115V, 50Hz, 1.0 pf			
MODEL	WEIGHT (kg)	LENGTH (mm)	125/40	105/40	80/40	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			kVA @ 240/120V, 60Hz, 1.0 pf			
MODEL	WEIGHT (kg)	LENGTH (mm)	125/40	105/40	80/40	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			kVA @ 230/115V, 50Hz, 1.0 pf			
MODEL	WEIGHT (kg)	LENGTH (mm)	125/40	105/40	80/40	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			kVA @ 240/120V, 60Hz, 1.0 pf			
MODEL	WEIGHT (kg)	LENGTH (mm)	125/40	105/40	80/40	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

3Phase

MODEL	WEIGHT (kg)	LEADS	kVA 115/200/230/400V 50 Hz, 0.8pf		kVA 138/240/277/480V 60 Hz, 0.8pf	
			125/40	105/40	125/40	105/40
NPE 32-A/4	77	12	7.5	7.3	9	8.4
NPE 32-B/4	83	12	11.5	10.5	14	12.5
NPE 32-C/4	90	12	13	12	16	14.5
NPE 32-D/4	102	12	17	15.5	21	19
NPE 32-E/4	120	12	25	23	31	28.5
NPE 32-F/4	134	12	27.5	25	34	31

1Phase (Dedicated Winding)

MODEL	WEIGHT (kg)	LEADS	kVA 115/230V 50 Hz, 1.0pf		kVA 120/240V 60 Hz, 1.0pf	
			125/40	105/40	125/40	105/40
NPE 32-A/4	75	4	6.4	6.2	8.4	8
NPE 32-B/4	81	4	8.7	8.3	10.5	10
NPE 32-C/4	88	4	10.8	10.4	13	12.5
NPE 32-D/4	100	4	13.8	13.3	17	16
NPE 32-E/4	118	4	18.5	17.5	22	21
NPE 32-F/4	132	4	22.5	21	26.5	25

1Phase (Re-connected)

MODEL	WEIGHT (kg)	LEADS	kVA 115/230V 50 Hz, 1.0pf		kVA 120/240V 60 Hz, 1.0pf	
			125/40	105/40	125/40	105/40
NPE 32-A/4	75	12	5		6	
NPE 32-B/4	81	12	7.5		9.3	
NPE 32-C/4	88	12	8.6		10.6	
NPE 32-D/4	100	12	11.3		14	
NPE 32-E/4	118	12	16.6		20.6	
NPE 32-F/4	132	12	18.3		22.6	

Space Efficient - designed for length reduction.

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

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

Voltage: Various

RPM: 3000/3600

Insulation: Class H

3Phase			kVA 115/200/230/400V 50 Hz, 0.8pf		kVA 138/240/277/480V 60 Hz, 0.8pf	
MODEL	WEIGHT (kg)	LEADS	125/40	105/40	125/40	105/40
NPE 31-A/2	77	12	8	7.8	10	9.3
NPE 31-B/2	83	12	10.5	9.6	13	11.6
NPE 31-C/2	90	12	13.5	12.3	16.5	15
NPE 31-D/2	102	12	21	19	25.2	23
NPE 31-E/2	120	12	26	23.8	31.5	29
NPE 31-F/2	134	12	32	28.8	38.4	35

1Phase (Dedicated Winding)			kVA 115/230V 50 Hz, 1.0pf		kVA 120/240V 60 Hz, 1.0pf	
MODEL	WEIGHT (kg)	LEADS	125/40	105/40	125/40	105/40
NPE 31-A/2	75	4	5.6	5	6.7	6.4
NPE 31-B/2	81	4	8	7.3	9.2	8.8
NPE 31-C/2	88	4	12	11	14.4	13.2
NPE 31-D/2	100	4	15	13.6	18	16.3
NPE 31-E/2	118	4	21	19	25.2	23
NPE 31-F/2	132	4	25	23	30	27.5

1Phase (Re-connected)			kVA 115/230V 50 Hz, 1.0pf		kVA 120/240V 60 Hz, 1.0pf	
MODEL	WEIGHT (kg)	LEADS	125/40	105/40	125/40	105/40
NPE 31-A/2	77	12	5.3		6.6	
NPE 31-B/2	83	12	7		8.6	
NPE 31-C/2	90	12	9		11	
NPE 31-D/2	102	12	14		16.8	
NPE 31-E/2	120	12	17.3		21	
NPE 31-F/2	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



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 Butylh Rubber, provides unparalleled mechanical strength and superior protection against airborne 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, Butylh Rubber overcoat 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	125/40	105/40	80/40	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	125/40	105/40	80/40	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

Consult Factory for pricing.

Above generators are built to IP55 standards.

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



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

Voltage: 115/200 – 208 - 6 /12 Lead

RPM: 3428/2400/2000/1848

Insulation: Class H



Multi-Pole | 400Hz

MODEL	WEIGHT (kg)	LEADS	AVR	RPM	kVA @ Temp. Rise / Ambient C	
					125/40	105/40
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 BS 2G 219 – EN2292 – ISO 6858 – Mil Stnd 704F

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.
- ▶ Paralleling CT’s for parallel operation.
- ▶ Black Butylh Rubber overcoat for superior winding protection in hazardous environments as option.
- ▶ Remote voltage control.

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

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

1Phase - Reconnected

MODEL	WEIGHT (kg)	AVR	50Hz, 1.0 PF			60Hz, 1.0 PF		
			kVA @ Temp Rise/Ambient		%EFF	kVA @ Temp Rise/Ambient		%EFF
			220/230/240 V ΔΔ			277 V Δ		
			125/40	105/40		125/40	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 A	126	DSR	14.5	13	79.5	17.5	16	81.1
ECP28 2L2 A	136	DSR	17	15	80.9	20.5	18	82.5
ECP28 3L2 A	141	DSR	20	18	81.7	24	22	83.3
ECP28 VL2 A	156	DSR	24	22	81.9	29	26.5	83.5
ECP32 2S2 A	173	DSR	29	26	81.4	35	32	82.8
ECP32 3S2 A	199	DSR	36	32	82.2	43	39	84.8
ECP32 1L2 A	212	DSR	43	39	83.0	51.5	47	85.5
ECP32 2L2 A	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
ECO37 1SN2	510	DSR	105	95	87.7	125	112	89.7
ECO37 1LN2	676	DSR	140	125	88.2	167	153	90.3
ECO37 2LN2	790	DSR	199	182	88.7	240	220	91.0

3Phase

MODEL	WEIGHT (kg)	AVR	50Hz, 0.8 PF			60Hz, 0.8 PF				
			kVA @ Temp Rise/Ambient		%EFF	kVA @ Temp Rise/Ambient				
			115/200/230/400 V			138/240/277/480 V		120/208/240/415 V		
			125/40	105/40	%EFF	125/40	105/40	%EFF	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 A	126	DSR	22	20	85.2	26.5	24	86.2	22	20
ECP28 2L2 A	136	DSR	27	25	86.4	32.5	30	87.9	27	24.5
ECP28 3L2 A	141	DSR	31.5	30	87.2	38	36	89.2	32	30
ECP28 VL2 A	156	DSR	40	37	87.8	48	44	89.7	40	37.5
ECP32 2S2 A	173	DSR	44	40	87.4	53	48	89.2	46	41.5
ECP32 3S2 A	199	DSR	55	50	88.1	66	60	89.5	58	52.5
ECP32 1L2 A	214	DSR	66	60	88.4	79.5	72	90.2	68	61.5
ECP32 2L2 A	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
ECO37 1SN2	510	DSR	158	142	91.7	188	169	93.1	163	150
ECO37 1LN2	676	DSR	208	188	92.2	250	225	93.5	215	197
ECO37 2LN2	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



2 Pole | 1Phase (Capacitor)

MODEL	WEIGHT (kg)	kVA @ 1.0 PF, 50Hz		kVA @ 1.0 PF, 60Hz	
		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
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 capacitor control and optional AVR.

2 Pole | 1Phase (AVR)

MODEL	WEIGHT (kg)	kVA @ 1.0 PF, 50Hz		kVA @ 1.0 PF, 60Hz	
		115/230 V	%EFF	120/240 V	%EFF
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



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

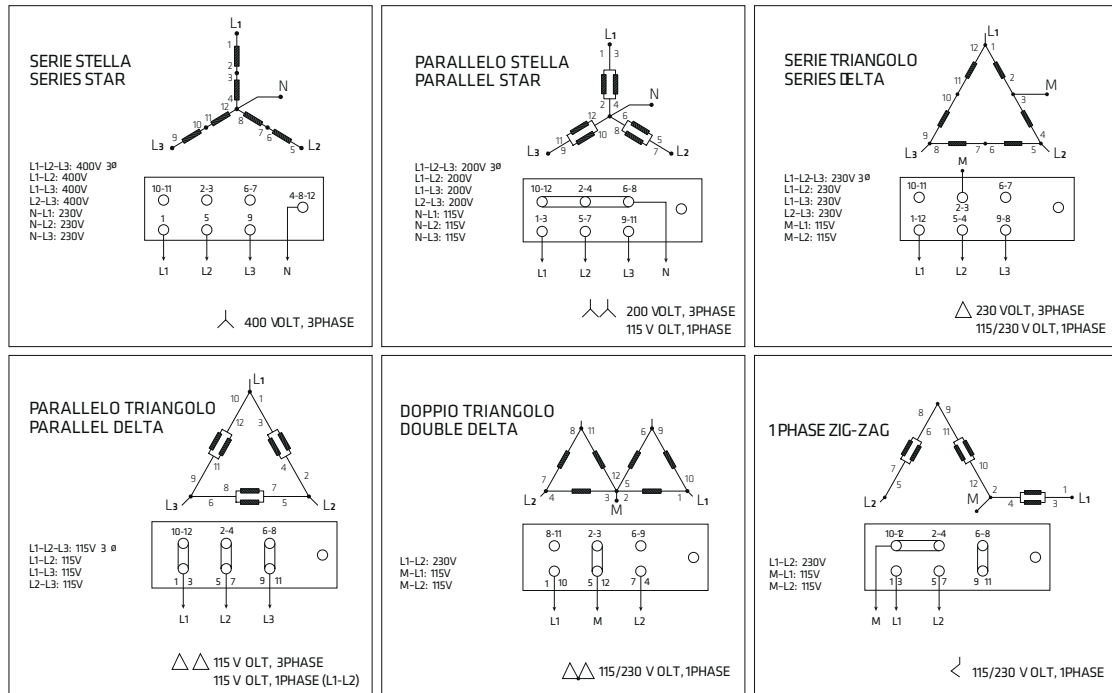
Above machines are brush type with transformer control.

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.



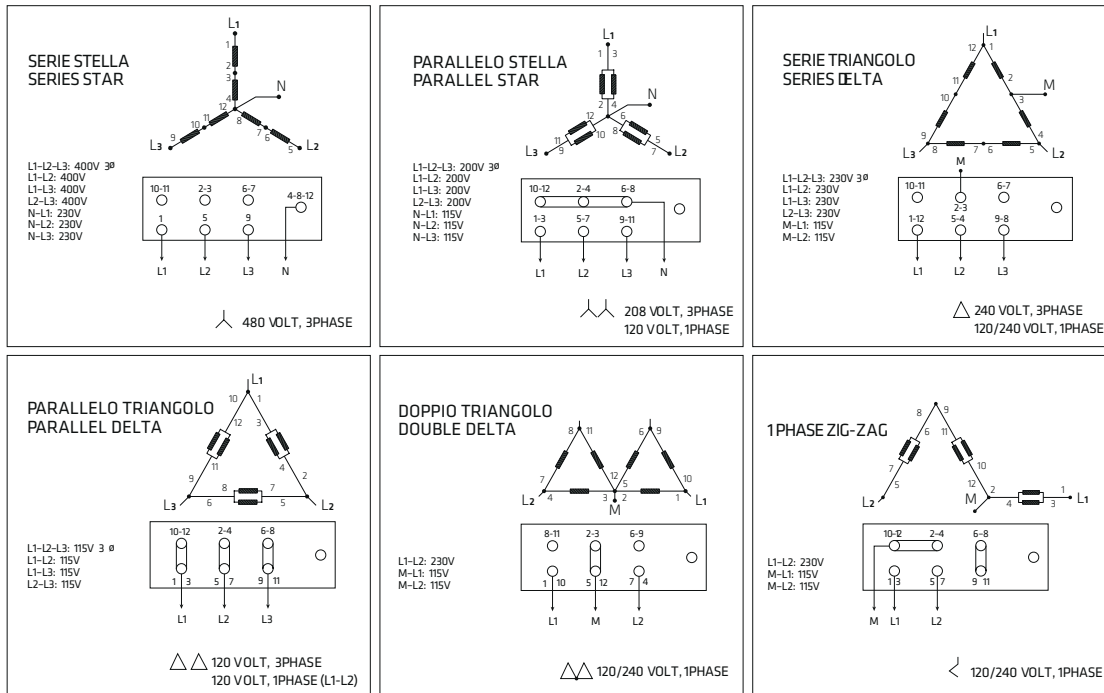
50Hz		Series 3, 28, 31, 32, 34, 38				Series 40, 43, 46			
Series Star	L-L	380	400	415	440	760	800	830	880
	L-N	220	230	240	254	440	460	480	508
Parallel Star	L-L	190	200	208	220	380	400	415	440
	L-N	110	115	120	127	220	230	240	254
Series Delta	L-L	220	230	240	254	440	460	480	508
	L-M	110	115	120	127	220	230	240	254
Parallel Delta	L-L	110	115	120	127	220	230	240	254
Zig-Zag	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	L-L	220	230	240	254	440	460	480	508
	L-M	110	115	120	127	220	230	240	254
Single Phase Double Delta	L-L	220	230	240	254	440	460	480	508
	L-M	110	115	120	127	220	230	240	254

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

In three phase zig-zag connection the rated power must be multiplied by 0.866.

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.



60Hz		Series 3, 28, 31, 32, 34, 38				Series 40, 43, 46			
Series Star	L-L	415	440	460	480	830	880	920	960
	L-N	240	254	266	277	480	508	530	554
Parallel Star	L-L	208	220	230	240	415	440	460	480
	L-N	120	127	133	139	240	254	266	277
Series Delta	L-L	240	254	266	277	480	508	530	554
	L-M	120	127	133	139	240	252	266	277
Parallel Delta	L-L	120	127	133	139	240	252	266	277
	Zig-Zag	L-L	359	380	400	415	720	760	800
Single Phase Parallel Zig-Zag	L-N	207	220	230	240	415	440	460	480
	L-L	240	254	266	277	440	460	480	554
Single Phase Double Delta	L-M	120	127	133	139	220	230	240	277
	L-L	240	254	266	277	440	460	480	554
	L-M	120	127	133	139	220	230	240	277

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

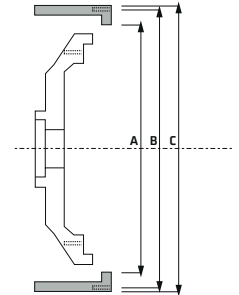
In three phase zig-zag connection the rated power must be multiplied by 0.866.

SAE Flywheel Housing Dimensions

Mounting Arrangements.

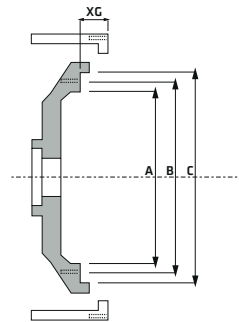
S.A.E. Flywheel Housing Dimensions, mm (in)

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	ECO3	ECO28	ECO32	ECP34	ECO38N	ECO40	ECO43N	ECO46	NPE 32
5	6.5	•	•	•						•
	7.5	•	•	•						•
	8	•	•	•						•
4	6.5	•	•	•						•
	7.5	•	•	•						•
	8	•	•	•						•
	10	•	•	•						•
3	8	•	•	•						•
	10	•	•	•	•					•
	11.5	•	•	•	•	•				•
2	10		•	•	•	•				
	11.5		•	•	•	•				
1	11.5			•	•	•				
	14			•	•	•	•	•		
1/2	14					•	•	•		
	18						•	•		
0	14						•	•		
	18							•	•	•
00	18							•	•	•
	21								•	•

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