



POWER FROM WITHIN

GUIDA TECNICA
POTENZE

RATINGS BOOK

TECHNICAL GUIDE

All electrical / mechanical data are to be considered as a reference and they can be modified without any notice.

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Ratings Definitions.....	05
Dynamic Data Support.....	05
Environmental Considerations.....	06
International Protection IP Ratings.....	07



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

4 Pole Industrial | ECO & ECP /4

4 Pole 50Hz Ratings

400V 4 Pole 50Hz 3Phase AVR Controlled 1500rpm Standard.....	08
380V 4 Pole 50Hz 3Phase AVR Controlled 1500rpm Standard.....	10
415V 4 Pole 50Hz 3Phase AVR Controlled 1500rpm Standard.....	12
415V 4 Pole 50Hz 3Phase AVR Controlled 1500rpm Broad Voltage.....	14
440V 4 Pole 50Hz 3Phase AVR Controlled 1500rpm Standard.....	16
220V-230V-240V 4 Pole 50Hz 1Phase 1 P.F. AVR Controlled 1500rpm Reconnected.....	18
220V-230V-240V 4 Pole 50Hz 1Phase 0.8 P.F. AVR Controlled 1500rpm Reconnected.....	20
230V 4 Pole 50Hz 1Phase 1 P.F. AVR Controlled 1500rpm Dedicated.....	22
230V 4 Pole 50Hz 1Phase 0.8 P.F. AVR Controlled 1500rpm Dedicated.....	23

4 Pole 60Hz Ratings

480V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Standard.....	24
460V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Standard.....	26
440V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Standard.....	28
415V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Standard.....	30
415V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Broad Voltage.....	32
400V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Standard.....	34
380V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Standard.....	36
380V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Dedicated.....	38
600V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Dedicated.....	40
690V 4 Pole 60Hz 3Phase AVR Controlled 1800rpm Dedicated.....	42
220V-230V-240V 4 Pole 60Hz 1Phase 1 P.F. AVR Controlled 1800rpm Reconnected.....	44
220V-230V-240V 4 Pole 60Hz 1Phase 0.8 P.F. AVR Controlled 1800rpm Reconnected.....	46
240V 4 Pole 60Hz 1Phase 1 P.F. AVR Controlled 1800rpm Dedicated.....	48
240V 4 Pole 60Hz 1Phase 0.8 P.F. AVR Controlled 1800rpm Dedicated.....	49



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



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



LIGHTNING



LT3N Brushless Alternators with Capacitor 50 or 60Hz 1Phase

Lighting Tower | LT3N

LT3N Lighting Tower Style 2 and 4 pole **50**



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

Space Saver | NPE

NPE Alternator Range **from 51 to 53**



RAIL



TE34 IP54 Brushless Alternators with AVR 50 or 60Hz

Totally Enclosed | TE34

Totally Enclosed Alternators **54**



400Hz



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

400Hz | HC

HC Alternator 14/20/24 Pole 400Hz **55**



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

2 Pole Industrial | ECO ECP /2

2 Pole Industrial Ratings **from 56 to 61**



Portable



S15, S16 & S20 Brushless Alternators with Capacitor and Optional AVR or Brushed with AVR, 50 or 60Hz

2 Pole Portable 1Ph | S15, S16, S20 | ES16W, ES16F, ES20

2 Pole Portable Ratings Single Phase **62**



Portable



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 **63**

Additional Information

Wiring Connection Diagram **64**

SAE Coupling and Mounting Guide **65**

Infographic Icons Summary **66**

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 $\leq 70\%$, 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 being 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. Long term 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	$\leq 70\%$	$\leq 100\%$	$\leq 70\%$	$\leq 100\%$
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 support area: support.meccalte.com

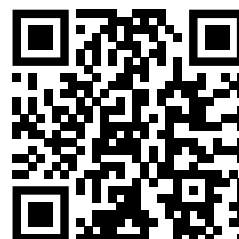
Here you will find our dynamic technical data sheet builder, where you can create your own bespoke data sheet. Following a simple step-by-step process, you can get the information in a format that matches your application and requirement. Picking from a number of variances, you are guided through selection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



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	65	70
≤ 1000	1.07	1	0.96	0.93	0.91	0.89	0.85	0.82
> 1000 ≤ 1500	1.01	0.96	0.92	0.89	0.87	0.84	0.81	0.77
> 1500 ≤ 2000	0.96	0.91	0.87	0.84	0.83	0.79	0.77	0.73
> 2000 ≤ 3000	0.90	0.85	0.81	0.78	0.76	0.73	0.71	0.68
> 3000 ≤ 4000	0.84	0.78	0.75	0.73	0.70	0.68	0.66	0.62
> 4000 ≤ 5000	0.78	0.72	0.69	0.67	0.65	0.62	0.59	0.56
> 5000 ≤ 6000	0.70	0.65	0.63	0.61	0.58	0.55	0.53	0.50

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 consult your Mecc Alte Representative for application reviews and recommendations.

All information are available in our Insulation Protection Systems Guide:
https://www.meccalte.com/downloads/Insulation_system.pdf

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

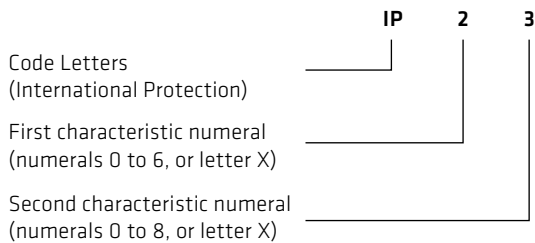
International Protection IP Ratings

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 harmful 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



400V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1500
 Insulation: Class H



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
ECP4 1M4 C	56	12	DSR	7.1	6.8	6.5	6	5.2
ECP4 2M4 C	61	12	DSR	8.8	8.3	8	7.5	6.4
ECP4 3M4 C	65	12	DSR	11	10.3	10	9.1	8
ECP4 4M4 C	72	12	DSR	13.7	13	12.5	11.6	10
ECP4 5M4 C	79	12	DSR	16.5	15.4	15	14.1	12
ECP4 1L4 C	93	12	DSR	20	18.5	18	17	14.4
ECP4 2L4 C	97	12	DSR	22	20.5	20	18.5	16
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
ECP30 1M4 C	105	12	DSR	22	20.5	20	18.5	16
ECP30 2M4 C	118	12	DSR	27.5	25.5	25	23	20
ECP30 3M4 C	130	12	DSR	33	30.5	30	26	24
ECP30 1L4 C	148	12	DSR	38.5	35.6	35	30.3	28
ECP30 2L4 C	158	12	DSR	44	40.7	40	34.7	32
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	525	12	DSR	196	188	180	170	144
ECO38 2S4 C	550	12	DSR	220	211	200	185	160
ECO38 1M4 C	600	12	DSR	250	237	225	207	180
ECO38 2M4 C	653	12	DSR	275	264	250	230	200
ECO38 1L4 C	771	12	DSR	330	315	300	275	240
ECO38 2L4 C	895	12	DSR	370	360	350	320	280
ECO38 VL4 C	957	12	DSR	400	380	370	338	296

115 Δ / 200 Λ / 230 Δ / 400 Λ Volts

MECC ALTE INDUSTRIAL

400V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1500
 Insulation: Class H



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]
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	550	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
ECO47LV 1S4	6039	4	DER-2/A	3300	3162	3056	2750	2444
ECO47LV 2S4	6239	4	DER-2/A	3510	3362	3250	2924	2600
ECO47LV 2M4	6771	4	DER-2/A	3780	3622	3500	3150	2800
ECO47LV 1L4	7415	4	DER-2/A	4460	4274	4130	3716	3304

230 Δ Δ / 400 Δ Δ / 460 Δ Δ / 800 Δ Δ Volts

MECCALTE INDUSTRIAL

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

380V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1500
 Insulation: Class H



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
ECP4 1M4 C	56	12	DSR	7.1	6.8	6.5	6	5.2
ECP4 2M4 C	61	12	DSR	8.8	8.3	8	7.5	6.4
ECP4 3M4 C	65	12	DSR	11	10.3	10	9.1	8
ECP4 4M4 C	72	12	DSR	13.7	13	12.5	11.6	10
ECP4 5M4 C	79	12	DSR	16.5	15.4	15	14.1	12
ECP4 1L4 C	93	12	DSR	20	18.5	18	17	14.4
ECP4 2L4 C	97	12	DSR	22	20.5	20	18.5	16
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
ECP30 1M4 C	105	12	DSR	22	20.5	20	18.5	16
ECP30 2M4 C	118	12	DSR	27.5	25.5	25	23	20
ECP30 3M4 C	130	12	DSR	33	30.5	30	26	24
ECP30 1L4 C	148	12	DSR	38.5	35.6	35	30.3	28
ECP30 2L4 C	158	12	DSR	44	40.7	40	34.7	32
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	525	12	DSR	196	188	180	170	144
ECO38 2S4 C	550	12	DSR	220	211	200	185	160
ECO38 1M4 C	600	12	DSR	250	237	225	207	180
ECO38 2M4 C	653	12	DSR	275	264	250	230	200
ECO38 1L4 C	771	12	DSR	330	315	300	275	240
ECO38 2L4 C	895	12	DSR	370	360	350	320	280
ECO38 VL4 C	957	12	DSR	380	370	360	329	288

110 Δ / 190 Δ / 220 Δ / 380 Δ Volts

MECC ALTE INDUSTRIAL

380V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1500
 Insulation: Class H



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]
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	550	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	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
ECO47LV 1S4	6039	4	DER-2/A	3128	2998	2898	2606	2318
ECO47LV 2S4	6239	4	DER-2/A	3334	3194	3088	2778	2470
ECO47LV 2M4	6771	4	DER-2/A	3590	3440	3325	3000	2660
ECO47LV 1L4	7415	4	DER-2/A	4236	4060	3924	3530	3138

220 ΔΔ / 380 ΔΔ / 440 Δ / 760 Δ Volts

MECCALTE INDUSTRIAL

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

415V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1500
 Insulation: Class H



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
ECP4 1M4 C	56	12	DSR	7.1	6.8	6.5	6	5.2
ECP4 2M4 C	61	12	DSR	8.8	8.3	8	7.5	6.4
ECP4 3M4 C	65	12	DSR	11	10.3	10	9.1	8
ECP4 4M4 C	72	12	DSR	13.7	13	12.5	11.6	10
ECP4 5M4 C	79	12	DSR	16.5	15.4	15	14.1	12
ECP4 1L4 C	93	12	DSR	20	18.5	18	17	14.4
ECP4 2L4 C	97	12	DSR	22	20.5	20	18.5	16
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
ECP30 1M4 C	105	12	DSR	22	20.5	20	18.5	16
ECP30 2M4 C	118	12	DSR	27.5	25.5	25	23	20
ECP30 3M4 C	130	12	DSR	33	30.5	30	26	24
ECP30 1L4 C	148	12	DSR	38.5	35.6	35	30.3	28
ECP30 2L4 C	158	12	DSR	44	40.7	40	34.7	32
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	525	12	DSR	196	188	180	170	144
ECO38 2S4 C	550	12	DSR	220	211	200	185	160
ECO38 1M4 C	600	12	DSR	250	237	225	207	180
ECO38 2M4 C	653	12	DSR	275	264	250	230	200
ECO38 1L4 C	771	12	DSR	330	315	300	275	240
ECO38 2L4 C	895	12	DSR	370	360	350	320	280
ECO38 VL4 C	957	12	DSR	400	380	370	338	296

120 Δ / 208 Λ / 240 Δ / 415 Λ Volts

MECC ALTE INDUSTRIAL

415V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead

RPM: 1500

Insulation: Class H



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]
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	550	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
ECO47LV 1S4	6039	4	DER-2/A	3128	2998	2898	2606	2318
ECO47LV 2S4	6239	4	DER-2/A	3334	3194	3088	2778	2470
ECO47LV 2M4	6771	4	DER-2/A	3590	3440	3325	3000	2660
ECO47LV 1L4	7415	4	DER-2/A	4236	4060	3924	3530	3138

240 ΔΔ / 415 ΔΔ / 480 Δ / 830 Δ Volts

MECCALTE INDUSTRIAL

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

380V-400V-415V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - Broad Voltage - 12 Lead

RPM: 1500

Insulation: Class H



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
ECP4 1M4 C	56	12	DSR	7.1	6.8	6.5	6	5.2
ECP4 2M4 C	61	12	DSR	8.8	8.3	8	7.5	6.4
ECP4 3M4 C	65	12	DSR	11	10.3	10	9.1	8
ECP4 4M4 C	72	12	DSR	13.7	13	12.5	11.6	10
ECP4 5M4 C	79	12	DSR	16.5	15.4	15	14.1	12
ECP4 1L4 C	93	12	DSR	20	18.5	18	17	14.4
ECP4 2L4 C	97	12	DSR	22	20.5	20	18.5	16
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
ECP30 1M4 C	105	12	DSR	22	20.5	20	18.5	16
ECP30 2M4 C	118	12	DSR	27.5	25.5	25	23	20
ECP30 3M4 C	130	12	DSR	33	30.5	30	26	24
ECP30 1L4 C	148	12	DSR	38.5	35.6	35	30.3	28
ECP30 2L4 C	158	12	DSR	44	40.7	40	34.7	32
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	525	12	DSR	196	188	180	170	144
ECO38 2S4 C	550	12	DSR	220	211	200	185	160
ECO38 1M4 C	600	12	DSR	250	237	225	207	180
ECO38 2M4 C	653	12	DSR	275	264	250	230	200
ECO38 1L4 C	771	12	DSR	330	315	300	275	240
ECO38 2L4 C	895	12	DSR	370	360	350	320	280
ECO38 VL4 C	957	12	DSR	380	370	360	329	288

380V - 400V - 415V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - Broad Voltage - 12 Lead
 RPM: 1500
 Insulation: Class H



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]
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	550	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
ECO47LV 1S4	6039	4	DER-2/A	3128	2998	2898	2606	2318
ECO47LV 2S4	6239	4	DER-2/A	3334	3194	3088	2778	2470
ECO47LV 2M4	6771	4	DER-2/A	3590	3440	3325	2992	2660
ECO47LV 1L4	7415	4	DER-2/A	4236	4060	3924	3530	3138

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

440V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1500
 Insulation: Class H



MECC ALTE INDUSTRIAL

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	5.9	5.6	5.5	5	4.4
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
ECP4 1M4 C	56	12	DSR	6	5.6	5.5	5	4.4
ECP4 2M4 C	61	12	DSR	7.4	7	6.8	6.4	5.4
ECP4 3M4 C	65	12	DSR	10	9.3	9	8.4	7.2
ECP4 4M4 C	72	12	DSR	12.8	11.9	11.5	10.7	9.2
ECP4 5M4 C	79	12	DSR	15.4	14.4	14	13.2	11.2
ECP4 1L4 C	93	12	DSR	18.3	17	16.5	15.3	13.2
ECP4 2L4 C	97	12	DSR	20.4	19	18.5	17.5	14.8
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	-	-	-	-	-
ECP30 1M4 C	105	12	DSR	20.4	19	18.5	17.5	15
ECP30 2M4 C	118	12	DSR	25.2	23.7	23	21.4	18.4
ECP30 3M4 C	130	12	DSR	29.5	27.8	27	25.1	21.6
ECP30 1L4 C	148	12	DSR	34.4	32.4	31.5	29.3	25.2
ECP30 2L4 C	158	12	DSR	39	37	36	33.5	28.8
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	525	12	DSR	180	173	165	155	132
ECO38 2S4 C	550	12	DSR	209	200	190	175	152
ECO38 1M4 C	600	12	DSR	234	221	210	190	168
ECO38 2M4 C	653	12	DSR	253	243	230	215	184
ECO38 1L4 C	771	12	DSR	319	305	290	265	232
ECO38 2L4 C	895	12	DSR	360	350	340	310	272
ECO38 VL4 C	957	12	DSR	370	360	350	319	280

127 Δ / 220 Δ / 254 Δ / 440 Δ Volts

440V

4 Pole | 50Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead

RPM: 1500

Insulation: Class H



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]
ECO40 1S4 C	1049	12	DER-1/A	404	386	370	342	296
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
ECO47LV 1S4	6039	4	DER-2/A	2994	2868	2773	2494	2218
ECO47LV 2S4	6239	4	DER-2/A	3190	3056	2955	2658	2362
ECO47LV 2M4	6771	4	DER-2/A	3436	3292	3182	2862	2544
ECO47LV 1L4	7415	4	DER-2/A	4054	3884	3755	3378	3002

254 Δ Δ / 440 Λ Λ / 508 Δ / 880 Λ Volts

MECCALTE INDUSTRIAL

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

Warning: Using a standard winding of a prescribed voltage and then adjusting to a different voltage, can lead to performances different to those published for the rated voltage of that winding. This may be in regard to power, efficiency, reactance, transient responses and overload ability. It is therefore recommended to visit the <http://support.meccalte.com> website and the DDS area specifically to produce a custom datasheet for the voltage requested. In this way you are assured of the correct performances.

220V - 230V - 240V

4 Pole | 50Hz | 1Phase | 1 PF | AVR Controlled

Winding: Standard - Reconnected - 12 Lead

RPM: 1500

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1 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	5	4.8	4.6	4.3	3.7
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
ECP4 1M4 C	56	12	DSR	5	4.8	4.6	4.3	3.7
ECP4 2M4 C	61	12	DSR	5.7	5.5	5.3	4.9	4.2
ECP4 3M4 C	65	12	DSR	6.5	6.2	6	5.6	4.8
ECP4 4M4 C	72	12	DSR	8.2	7.7	7.5	7	6
ECP4 5M4 C	79	12	DSR	9.8	9.2	9	8.4	7.2
ECP4 1L4 C	93	12	DSR	12	11.3	11	10.2	8.8
ECP4 2L4 C	97	12	DSR	14.2	13.5	13	11.8	10.4
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
ECP30 1M4 C	105	12	DSR	14.7	14	13.5	12.3	10.8
ECP30 2M4 C	118	12	DSR	18	16.7	16.5	15.1	13.2
ECP30 3M4 C	130	12	DSR	22.3	21	20.5	18.3	16.4
ECP30 1L4 C	148	12	DSR	24	22.5	22	19.6	17.6
ECP30 2L4 C	158	12	DSR	26	24.6	24	21.4	19.2
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

SERIES DELTA / ZIG-ZAG / 1PHASE DOUBLE DELTA

MECC ALTE INDUSTRIAL

220V - 230V - 240V

4 Pole | 50Hz | 1Phase | 1 PF | AVR Controlled

Winding: Standard - Reconnected - 12 Lead

RPM: 1500

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1 PF				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]
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	525	12	DSR	95	89	87	78	70
ECO38 2S4 C	550	12	DSR	100	90	88	81	71
ECO38 1M4 C	600	12	DSR	125	115	111	100	88
ECO38 2M4 C	653	12	DSR	135	125	122	109	97
ECO38 1L4 C	771	12	DSR	150	140	136	123	108
ECO38 2L4 C	895	12	DSR	170	160	156	140	125
ECO38 VL4 C	957	12	DSR	174	164	160	144	128
ECO40 1S4 C	1049	12	DER-1/A	211	207	196	180	156
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

SERIES DELTA / ZIG-ZAG / 1PH DOUBLE DELTA

PARALLEL DELTA

MECCALTE INDUSTRIAL

2 of 2

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 applications.

220V - 230V - 240V

4 Pole | 50Hz | 1Phase | 0.8 PF | AVR Controlled

Winding: Standard - Reconnected - 12 Lead

RPM: 1500

Insulation: Class H



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	4.6	4.3	4.2	3.9	3.4
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
ECP4 1M4 C	56	12	DSR	4.6	4.3	4.2	3.9	3.4
ECP4 2M4 C	61	12	DSR	5.2	5	4.8	4.4	3.8
ECP4 3M4 C	65	12	DSR	6	5.7	5.5	5.1	4.4
ECP4 4M4 C	72	12	DSR	7.3	6.9	6.7	6.3	5.4
ECP4 5M4 C	79	12	DSR	8.7	8.2	8	7.5	6.4
ECP4 1L4 C	93	12	DSR	10.8	10.2	9.9	9.2	7.9
ECP4 2L4 C	97	12	DSR	12.8	12.2	11.7	10.6	9.4
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
ECP30 1M4 C	105	12	DSR	13.3	12.7	12.2	11.1	9.8
ECP30 2M4 C	118	12	DSR	16.2	15.1	14.9	13.6	11.9
ECP30 3M4 C	130	12	DSR	20	19	18.5	16.5	14.8
ECP30 1L4 C	148	12	DSR	22	20.3	19.8	17.6	15.8
ECP30 2L4 C	158	12	DSR	23	22	21.5	19.2	17.2
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

SERIES DELTA / ZIG-ZAG / 1PHASE DOUBLE DELTA

MECC ALTE INDUSTRIAL

220V - 230V - 240V

4 Pole | 50Hz | 1Phase | 0.8 PF | AVR Controlled

Winding: Standard - Reconnected - 12 Lead

RPM: 1500

Insulation: Class H



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]
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	525	12	DSR	85	80	78	70	62
ECO38 2S4 C	550	12	DSR	88	83	81	75	65
ECO38 1M4 C	600	12	DSR	110	105	101	91	81
ECO38 2M4 C	653	12	DSR	119	112	109	97	87
ECO38 1L4 C	771	12	DSR	131	124	120	109	96
ECO38 2L4 C	895	12	DSR	148	139	136	122	109
ECO38 VL4 C	957	12	DSR	152	143	140	125	112
ECO40 1S4 C	1049	12	DER-1/A	199	193	183	168	146
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

SERIES DELTA / ZIG-ZAG / 1PH DOUBLE DELTA

PARALLEL DELTA

MECCALTE INDUSTRIAL

2 of 2

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 applications.

230V

4 Pole | 50Hz | 1Phase | 1 PF | AVR Controlled

Winding: Dedicated - 4 Lead

RPM: 1500

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1 PF				
				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
ECP4 1M4 C	56	4	DSR	5.5	5.1	5	4.5	4
ECP4 2M4 C	61	4	DSR	6.5	6.2	6	5.5	4.8
ECP4 3M4 C	65	4	DSR	7.6	7.2	7	6.4	5.6
ECP4 4M4 C	72	4	DSR	9.3	8.7	8.5	7.7	6.8
ECP4 5M4 C	79	4	DSR	11.4	10.8	10.5	9.8	8.4
ECP4 1L4 C	93	4	DSR	13.6	12.8	12.5	11.7	10
ECP4 2L4 C	97	4	DSR	15.8	14.8	14.5	13.2	11.6
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
ECP30 1M4 C	105	4	DSR	15.8	14.8	14.5	13.2	11.6
ECP30 2M4 C	118	4	DSR	19.6	18.3	18	16.3	14.4
ECP30 3M4 C	130	4	DSR	24	22.6	22	20	17.6
ECP30 1L4 C	148	4	DSR	28	26.4	25.5	24	20
ECP30 2L4 C	158	4	DSR	31.7	30	29	26.6	23.6
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.

230V

4 Pole | 50Hz | 1Phase | 0.8 PF | AVR Controlled

Winding: Dedicated - 4 Lead

RPM: 1500

Insulation: Class H



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	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
ECP4 1M4 C	56	4	DSR	5	4.6	4.5	4	3.6
ECP4 2M4 C	61	4	DSR	6	5.6	5.4	5	4.3
ECP4 3M4 C	65	4	DSR	6.5	6.2	6	5.5	4.8
ECP4 4M4 C	72	4	DSR	8.4	7.9	7.7	7	6.2
ECP4 5M4 C	79	4	DSR	10.4	9.8	9.5	9	7.6
ECP4 1L4 C	93	4	DSR	12.3	11.6	11.3	10.6	9
ECP4 2L4 C	97	4	DSR	14.2	13.3	13	12	10.4
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
ECP30 1M4 C	105	4	DSR	14.2	13.3	13	12	10.4
ECP30 2M4 C	118	4	DSR	17.7	16.4	16.2	14.8	13
ECP30 3M4 C	130	4	DSR	21.8	20.5	20	18	16
ECP30 1L4 C	148	4	DSR	23	22	21	19	16.8
ECP30 2L4 C	158	4	DSR	25.6	24.4	23.5	21.7	19
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.

480V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1800
 Insulation: Class H



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	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
ECP4 1M4 C	56	12	DSR	8.5	8	7.8	7.2	6.2
ECP4 2M4 C	61	12	DSR	10.5	10	9.6	9	7.7
ECP4 3M4 C	65	12	DSR	13.2	12.4	12	10.9	9.6
ECP4 4M4 C	72	12	DSR	16.5	15.5	15	13.9	12
ECP4 5M4 C	79	12	DSR	19.8	18.5	18	16.8	14.4
ECP4 1L4 C	93	12	DSR	24	22.2	22	20.2	17.6
ECP4 2L4 C	97	12	DSR	26.4	24.6	24	22	19.2
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
ECP30 1M4 C	105	12	DSR	26.4	24.6	24	22	19.2
ECP30 2M4 C	118	12	DSR	33	30.6	30	27.5	24
ECP30 3M4 C	130	12	DSR	39.6	36.6	36	32	28.8
ECP30 1L4 C	148	12	DSR	46.2	42.7	42	37.3	33.6
ECP30 2L4 C	158	12	DSR	52.8	48.8	48	42.7	38.4
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	525	12	DSR	236	230	220	205	176
ECO38 2S4 C	550	12	DSR	264	253	240	220	192
ECO38 1M4 C	600	12	DSR	300	284	270	250	216
ECO38 2M4 C	653	12	DSR	330	316	300	280	240
ECO38 1L4 C	771	12	DSR	396	378	360	330	288
ECO38 2L4 C	895	12	DSR	444	438	420	385	336
ECO38 VL4 C	957	12	DSR	465	453	440	403	352

138 Δ Δ / 240 Δ Δ / 277 Δ Δ / 480 Δ Δ Volts

MECC ALTE INDUSTRIAL

480V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1800
 Insulation: Class H



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]
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	660	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
ECO47LV 1S4	6039	4	DER-2/A	3960	3794	3667	3300	2932
ECO47LV 2S4	6239	4	DER-2/A	4212	4035	3900	3508	3120
ECO47LV 2M4	6771	4	DER-2/A	4536	4346	4200	3780	3360
ECO47LV 1L4	7415	4	DER-2/A	5352	5128	4956	4458	3964

277 ΔΔ / 480 ΔΔ / 554 Δ / 960 Δ Volts

“All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative”.

460V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1800
 Insulation: Class H



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	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
ECP4 1M4 C	56	12	DSR	8.5	8	7.8	7.2	6.2
ECP4 2M4 C	61	12	DSR	10.5	10	9.6	9	7.7
ECP4 3M4 C	65	12	DSR	13.2	12.4	12	10.9	9.6
ECP4 4M4 C	72	12	DSR	16.5	15.5	15	13.9	12
ECP4 5M4 C	79	12	DSR	19.8	18.5	18	16.8	14.4
ECP4 1L4 C	93	12	DSR	24	22.2	22	20.2	17.6
ECP4 2L4 C	97	12	DSR	26.4	24.6	24	22	19.2
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
ECP30 1M4 C	105	12	DSR	26.4	24.6	24	22	19.2
ECP30 2M4 C	118	12	DSR	33	30.6	30	27.5	24
ECP30 3M4 C	130	12	DSR	39.6	36.6	36	32	28.8
ECP30 1L4 C	148	12	DSR	46.2	42.7	42	37.3	33.6
ECP30 2L4 C	158	12	DSR	52.8	48.8	48	42.7	38.4
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	525	12	DSR	236	230	220	205	176
ECO38 2S4 C	550	12	DSR	264	253	240	220	192
ECO38 1M4 C	600	12	DSR	300	284	270	250	216
ECO38 2M4 C	653	12	DSR	330	316	300	280	240
ECO38 1L4 C	771	12	DSR	396	378	360	330	288
ECO38 2L4 C	895	12	DSR	444	438	420	385	336
ECO38 VL4 C	957	12	DSR	455	442	430	394	344

133 Δ Δ / 230 Δ Δ / 266 Δ / 460 Δ Volts

MECC ALTE INDUSTRIAL

460V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead

RPM: 1800

Insulation: Class H



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]
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	660	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
ECO47LV 1S4	6039	4	DER-2/A	3788	3630	3508	3156	2806
ECO47LV 2S4	6239	4	DER-2/A	4036	3868	3738	3362	2990
ECO47LV 2M4	6771	4	DER-2/A	4346	4164	4025	3622	3220
ECO47LV 1L4	7415	4	DER-2/A	5128	4914	4750	4274	3798

266 ΔΔ / 460 ΔΔ / 530 Δ / 920 Δ Volts

MECCALTE INDUSTRIAL

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

440V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1800
 Insulation: Class H



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	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
ECP4 1M4 C	56	12	DSR	8.5	8	7.8	7.2	6.2
ECP4 2M4 C	61	12	DSR	10.5	10	9.6	9	7.7
ECP4 3M4 C	65	12	DSR	12.4	11.6	11.3	10	9
ECP4 4M4 C	72	12	DSR	15.3	14.3	13.9	12.5	11.1
ECP4 5M4 C	79	12	DSR	18.1	16.8	16.4	15.4	13.1
ECP4 1L4 C	93	12	DSR	21.7	20	19.5	19	15.6
ECP4 2L4 C	97	12	DSR	25.3	24	23	20	18.4
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
ECP30 1M4 C	105	12	DSR	25.3	23.6	23	20	18.4
ECP30 2M4 C	118	12	DSR	30.3	28	27.5	26	22
ECP30 3M4 C	130	12	DSR	39.6	37	36	32	28.8
ECP30 1L4 C	148	12	DSR	46.2	43	42	37	33.6
ECP30 2L4 C	158	12	DSR	52.8	49	48	43	38.4
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	525	12	DSR	236	230	220	205	176
ECO38 2S4 C	550	12	DSR	264	253	240	220	192
ECO38 1M4 C	600	12	DSR	300	284	270	250	216
ECO38 2M4 C	653	12	DSR	330	316	300	280	240
ECO38 1L4 C	771	12	DSR	374	357	340	310	272
ECO38 2L4 C	895	12	DSR	444	438	420	385	336
ECO38 VL4 C	957	12	DSR	455	442	430	394	344

127 Δ / 220 Δ / 254 Δ / 440 Δ Volts

MECC ALTE INDUSTRIAL

440V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead

RPM: 1800

Insulation: Class H



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]
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
ECO47LV 1S4	6039	4	DER-2/A	3622	3472	3355	3018	2684
ECO47LV 2S4	6239	4	DER-2/A	3860	3700	3575	3216	2860
ECO47LV 2M4	6771	4	DER-2/A	4158	3984	3850	3464	3080
ECO47LV 1L4	7415	4	DER-2/A	4906	4702	4543	4088	3634

254 Δ Δ / 440 Δ Δ / 508 Δ Δ / 880 Δ Δ Volts

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

Warning: Using a standard winding of a prescribed voltage and then adjusting to a different voltage, can lead to performances different to those published for the rated voltage of that winding. This may be in regard to power, efficiency, reactance, transient responses and overload ability. It is therefore recommended to visit the <http://support.meccalte.com> website and the DDS area specifically to produce a custom datasheet for the voltage requested. In this way you are assured of the correct performances.

415V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1800
 Insulation: Class H



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
ECP4 1M4 C	56	12	DSR	7.7	7.2	7	6.5	5.6
ECP4 2M4 C	61	12	DSR	9.9	9.4	9	7.5	7.2
ECP4 3M4 C	65	12	DSR	11.5	10.7	10.5	9.5	8.4
ECP4 4M4 C	72	12	DSR	14.3	13.3	13	12	10.4
ECP4 5M4 C	79	12	DSR	17	15.9	15.4	14.6	12.4
ECP4 1L4 C	93	12	DSR	20.6	19	18.5	17	14.8
ECP4 2L4 C	97	12	DSR	23	22	21	19	16.8
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
ECP30 1M4 C	105	12	DSR	23.1	21.5	21	19	16.8
ECP30 2M4 C	118	12	DSR	28.6	27	26	24	20.8
ECP30 3M4 C	130	12	DSR	36.3	34	33	29	26.4
ECP30 1L4 C	148	12	DSR	42.4	39	38.5	34	30.8
ECP30 2L4 C	158	12	DSR	48.4	45	44	39	35.2
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	525	12	DSR	225	220	210	195	168
ECO38 2S4 C	550	12	DSR	253	242	230	210	184
ECO38 1M4 C	600	12	DSR	289	274	260	240	208
ECO38 2M4 C	653	12	DSR	319	305	290	270	232
ECO38 1L4 C	771	12	DSR	358	341	325	300	260
ECO38 2L4 C	895	12	DSR	402	391	380	350	304
ECO38 VL4 C	957	12	DSR	413	401	390	359	312

120 Δ / 208 Δ / 240 Δ / 415 V

MECC ALTE INDUSTRIAL

415V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead

RPM: 1800

Insulation: Class H



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]
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
ECO47LV 1S4	6039	4	DER-2/A	3416	3274	3164	2846	2530
ECO47LV 2S4	6239	4	DER-2/A	3640	3488	3372	3034	2696
ECO47LV 2M4	6771	4	DER-2/A	3920	3758	3631	3268	2904
ECO47LV 1L4	7415	4	DER-2/A	4626	4434	4285	3856	3426

240 ΔΔ / 415 ΔΔ / 480 Δ / 830 Δ Volts

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is fedded by auxiliary winding.

On ECO47 the voltage regulator is fedded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

Warning: Using a standard winding of a prescribed voltage and then adjusting to a different voltage, can lead to performances different to those published for the rated voltage of that winding. This may be in regard to power, efficiency, reactance, transient responses and overload ability. It is therefore recommended to visit the <http://support.meccalte.com> website and the DDS area specifically to produce a custom datasheet for the voltage requested. In this way you are assured of the correct performances.

415V - 440V - 460V - 480V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - Broad Voltage - 12 Lead

RPM: 1800

Insulation: Class H



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
ECP4 1M4 C	56	12	DSR	7.7	7.2	7	6.5	5.6
ECP4 2M4 C	61	12	DSR	9.9	9.4	9	7.5	7.2
ECP4 3M4 C	65	12	DSR	11.5	10.7	10.5	9.5	8.4
ECP4 4M4 C	72	12	DSR	14.3	13.3	13	12	10.4
ECP4 5M4 C	79	12	DSR	17	15.9	15.4	14.6	12.4
ECP4 1L4 C	93	12	DSR	20.6	19	18.5	17	14.8
ECP4 2L4 C	97	12	DSR	23	22	21	19	16.8
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
ECP30 1M4 C	105	12	DSR	23.1	21.5	21	19	16.8
ECP30 2M4 C	118	12	DSR	28.6	27	26	24	20.8
ECP30 3M4 C	130	12	DSR	36.3	34	33	29	26.4
ECP30 1L4 C	148	12	DSR	42.4	39	38.5	34	30.8
ECP30 2L4 C	158	12	DSR	48.4	45	44	39	35.2
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	525	12	DSR	225	220	210	195	168
ECO38 2S4 C	550	12	DSR	253	242	230	210	184
ECO38 1M4 C	600	12	DSR	289	274	260	240	208
ECO38 2M4 C	653	12	DSR	319	305	290	270	232
ECO38 1L4 C	771	12	DSR	358	341	325	300	260
ECO38 2L4 C	895	12	DSR	402	391	380	350	304
ECO38 VL4 C	957	12	DSR	413	401	390	359	312

415V - 440V - 460V - 480V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - Broad Voltage - 12 Lead

RPM: 1800

Insulation: Class H



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]
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
ECO47LV 1S4	6039	4	DER-2/A	3416	3274	3164	2846	2530
ECO47LV 2S4	6239	4	DER-2/A	3640	3488	3372	3034	2696
ECO47LV 2M4	6771	4	DER-2/A	3920	3758	3631	3268	2904
ECO47LV 1L4	7415	4	DER-2/A	4626	4434	4285	3856	3426

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is feeded by auxiliary winding.

On ECO47 the voltage regulator is feeded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

Warning: Using a standard winding of a prescribed voltage and then adjusting to a different voltage, can lead to performances different to those published for the rated voltage of that winding. This may be in regard to power, efficiency, reactance, transient responses and overload ability. It is therefore recommended to visit the <http://support.meccalte.com> website and the DDS area specifically to produce a custom datasheet for the voltage requested. In this way you are assured of the correct performances.

400V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1800
 Insulation: Class H



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	7.3	7.1	6.8	6.2	5.4
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
ECP4 1M4 C	56	12	DSR	7.4	7.1	6.8	6.2	5.4
ECP4 2M4 C	61	12	DSR	9.3	8.9	8.5	7.8	6.8
ECP4 3M4 C	65	12	DSR	11.2	10.5	10.2	9.3	8.1
ECP4 4M4 C	72	12	DSR	14.1	13.1	12.8	12.1	10.2
ECP4 5M4 C	79	12	DSR	16.8	15.7	15.3	14.4	12.2
ECP4 1L4 C	93	12	DSR	20.3	19	18.3	17	14.6
ECP4 2L4 C	97	12	DSR	22.6	21	20.5	19	16.4
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
ECP30 1M4 C	105	12	DSR	22.5	20.9	20.5	19	16.4
ECP30 2M4 C	118	12	DSR	28	26	25.5	24	20.4
ECP30 3M4 C	130	12	DSR	34.7	32	31.5	27	25.2
ECP30 1L4 C	148	12	DSR	40.4	38	36.8	32	29.4
ECP30 2L4 C	158	12	DSR	46.1	43	42	36	33.6
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	165	158	150	132	120
ECP34 2L4 C	440	12	DSR	187	178	170	155	136
ECO38 1S4 C	525	12	DSR	212	204	195	185	156
ECO38 2S4 C	550	12	DSR	235	224	213	197	170
ECO38 1M4 C	600	12	DSR	265	252	240	220	192
ECO38 2M4 C	653	12	DSR	297	284	270	250	216
ECO38 1L4 C	771	12	DSR	345	330	315	290	252
ECO38 2L4 C	895	12	DSR	408	388	370	340	296
ECO38 VL4 C	957	12	DSR	419	398	380	349	304

115 Δ / 200 Δ / 230 Δ / 400 Δ Volts

MECC ALTE INDUSTRIAL

400V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead

RPM: 1800

Insulation: Class H



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]
ECO40 1S4 C	1049	12	DER-1/A	448	427	410	375	328
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
ECO47LV 1S4	6039	4	DER-2/A	3294	3156	3050	2744	2440
ECO47LV 2S4	6239	4	DER-2/A	3510	3362	3250	2924	2600
ECO47LV 2M4	6771	4	DER-2/A	3780	3622	3500	3150	2800
ECO47LV 1L4	7415	4	DER-2/A	4460	4274	4130	3716	3306

230 ΔΔ / 400 ΔΔ / 460 Δ / 800 Δ Volts

MECCALTE INDUSTRIAL

2 of 2

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is fedded by auxiliary winding.

On ECO47 the voltage regulator is fedded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

Warning: Using a standard winding of a prescribed voltage and then adjusting to a different voltage, can lead to performances different to those published for the rated voltage of that winding. This may be in regard to power, efficiency, reactance, transient responses and overload ability. It is therefore recommended to visit the <http://support.meccalte.com> website and the DDS area specifically to produce a custom datasheet for the voltage requested. In this way you are assured of the correct performances.

380V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1800
 Insulation: Class H



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	7.3	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
ECP4 1M4 C	56	12	DSR	7.1	6.8	5	6	5.2
ECP4 2M4 C	61	12	DSR	8.8	8.3	8	7.3	6.4
ECP4 3M4 C	65	12	DSR	11	10.3	10	9.1	8
ECP4 4M4 C	72	12	DSR	13.7	12.9	12.5	11.6	10
ECP4 5M4 C	79	12	DSR	16.5	15.4	15	14.1	12
ECP4 1L4 C	93	12	DSR	20	19	18	17	14.4
ECP4 2L4 C	97	12	DSR	22	21	20	19	16
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
ECP30 1M4 C	105	12	DSR	22	20.5	20	18.5	16
ECP30 2M4 C	118	12	DSR	27.5	26	25	23	20
ECP30 3M4 C	130	12	DSR	33	31	30	26	24
ECP30 1L4 C	148	12	DSR	38.5	36	35	30	28
ECP30 2L4 C	158	12	DSR	44	41	40	35	32
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	525	12	DSR	196	188	180	170	144
ECO38 2S4 C	550	12	DSR	220	211	200	185	160
ECO38 1M4 C	600	12	DSR	250	237	225	207	180
ECO38 2M4 C	653	12	DSR	275	263	250	230	200
ECO38 1L4 C	771	12	DSR	330	315	300	275	240
ECO38 2L4 C	895	12	DSR	370	360	350	320	280
ECO38 VL4 C	957	12	DSR	380	370	360	329	288

110 Δ / 190 Δ / 220 Δ / 380 Δ Volts

MECC ALTE INDUSTRIAL

380V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Standard - 12 Lead
 RPM: 1800
 Insulation: Class H



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]
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
ECO47LV 1S4	6039	4	DER-2/A	3128	2998	2898	2606	2318
ECO47LV 2S4	6239	4	DER-2/A	3334	3194	3088	2778	2470
ECO47LV 2M4	6771	4	DER-2/A	3590	3440	3325	2992	2660
ECO47LV 1L4	7415	4	DER-2/A	4236	4060	3924	3530	3138

220 Δ Δ / 380 Δ Δ / 440 Δ Δ / 760 Δ Δ Volts

"All machines have 300% short circuit capability.

On ECP3-ECO46 range the voltage regulator is fedded by auxiliary winding.

On ECO47 the voltage regulator is fedded by PMG.

Indicated rating refences to series or parallel star connection as published table.

On ECO40, ECO43, ECO46 and ECO47 the standard connection is parallel star. For any different configuration please consult Meccalte representative".

Warning: Using a standard winding of a prescribed voltage and then adjusting to a different voltage, can lead to performances different to those published for the rated voltage of that winding. This may be in regard to power, efficiency, reactance, transient responses and overload ability. It is therefore recommended to visit the <http://support.meccalte.com> website and the DDS area specifically to produce a custom datasheet for the voltage requested. In this way you are assured of the correct performances.

380V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Special - Dedicated - 12 Lead
 RPM: 1800
 Insulation: Class H



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	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
ECP4 1M4 C	56	12	DSR	8.5	8	7.8	7.2	6.2
ECP4 2M4 C	61	12	DSR	10.5	10	9.6	9	7.7
ECP4 3M4 C	65	12	DSR	13.2	12.4	12	10.9	9.6
ECP4 4M4 C	72	12	DSR	16.5	15.5	15	13.9	12
ECP4 5M4 C	79	12	DSR	19.8	18.5	18	16.8	14.4
ECP4 1L4 C	93	12	DSR	24	22.2	22	20.2	17.6
ECP4 2L4 C	97	12	DSR	26.4	24.6	24	22	19.2
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
ECP30 1M4 C	105	12	DSR	26.4	24.6	24	22	19.2
ECP30 2M4 C	118	12	DSR	33	30.6	30	27.5	24
ECP30 3M4 C	130	12	DSR	39.6	36.6	36	32	28.8
ECP30 1L4 C	148	12	DSR	46.2	42.7	42	37.3	33.6
ECP30 2L4 C	158	12	DSR	52.8	48.8	48	42.7	38.4
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	525	12	DSR	236	230	220	205	176
ECO38 2S4 C	550	12	DSR	264	253	240	220	192
ECO38 1M4 C	600	12	DSR	300	284	270	250	216
ECO38 2M4 C	653	12	DSR	330	316	300	280	240
ECO38 1L4 C	771	12	DSR	396	378	360	330	288
ECO38 2L4 C	895	12	DSR	444	438	420	385	336
ECO38 VL4 C	957	12	DSR	465	453	440	403	352

380V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Special - Dedicated - 12 Lead
 RPM: 1800
 Insulation: Class H



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]
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	660	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	-	-	-	-	-
ECO47LV 1S4	6039	4	DER-2/A	3952	3786	3660	3292	2928
ECO47LV 2S4	6239	4	DER-2/A	4212	4035	3900	3508	3120
ECO47LV 2M4	6771	4	DER-2/A	4536	4346	4200	3780	3360
ECO47LV 1L4	7415	4	DER-2/A	5352	5128	4955	4458	3964

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

These are 'special' machines.

Check factory for delivery lead times.

600V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Special - Dedicated - 12 Lead
 RPM: 1800
 Insulation: Class H



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	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
ECP4 1M4 C	56	12	DSR	8.5	8	7.8	7.2	6.2
ECP4 2M4 C	61	12	DSR	10.5	10	9.6	9	7.7
ECP4 3M4 C	65	12	DSR	13.2	12.4	12	10.9	9.6
ECP4 4M4 C	72	12	DSR	16.5	15.5	15	13.9	12
ECP4 5M4 C	79	12	DSR	19.8	18.5	18	16.8	14.4
ECP4 1L4 C	93	12	DSR	24	22.2	22	20.2	17.6
ECP4 2L4 C	97	12	DSR	26.4	24.6	24	22	19.2
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
ECP30 1M4 C	105	12	DSR	26.4	24.6	24	22	19.2
ECP30 2M4 C	118	12	DSR	33	30.6	30	27.5	24
ECP30 3M4 C	130	12	DSR	39.6	36.6	36	32	28.8
ECP30 1L4 C	148	12	DSR	46.2	42.7	42	37.3	33.6
ECP30 2L4 C	158	12	DSR	52.8	48.8	48	42.7	38.4
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	525	12	DSR	236	230	220	205	176
ECO38 2S4 C	550	12	DSR	264	253	240	220	192
ECO38 1M4 C	600	12	DSR	300	284	270	250	216
ECO38 2M4 C	653	12	DSR	308	295	280	260	224
ECO38 1L4 C	771	12	DSR	396	378	360	330	288
ECO38 2L4 C	895	12	DSR	444	438	420	385	336
ECO38 VL4 C	957	12	DSR	465	453	440	403	352

600V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Special - Dedicated - 12 Lead
 RPM: 1800
 Insulation: Class H



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]
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	660	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
ECO47LV 1S4	6039	4	DER-2/A	3952	3786	3660	3292	2928
ECO47LV 2S4	6239	4	DER-2/A	4212	4035	3900	3508	3120
ECO47LV 2M4	6771	4	DER-2/A	4536	4346	4200	3780	3360
ECO47LV 1L4	7415	4	DER-2/A	5352	5128	4955	4458	3964

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' machines.

Check factory for delivery lead times.

690V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Special - Dedicated - 12 Lead
 RPM: 1800
 Insulation: Class H



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	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
ECP4 1M4 C	56	12	DSR	8.5	8	7.8	7.2	6.2
ECP4 2M4 C	61	12	DSR	10.5	10	9.6	9	7.7
ECP4 3M4 C	65	12	DSR	13.2	12.4	12	10.9	9.6
ECP4 4M4 C	72	12	DSR	16.5	15.5	15	13.9	12
ECP4 5M4 C	79	12	DSR	19.8	18.5	18	16.8	14.4
ECP4 1L4 C	93	12	DSR	24	22.2	22	20.2	17.6
ECP4 2L4 C	97	12	DSR	26.4	24.6	24	22	19.2
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
ECP30 1M4 C	105	12	DSR	26.4	24.6	24	22	19.2
ECP30 2M4 C	118	12	DSR	33	30.6	30	27.5	24
ECP30 3M4 C	130	12	DSR	39.6	36.6	36	32	28.8
ECP30 1L4 C	148	12	DSR	46.2	42.7	42	37.3	33.6
ECP30 2L4 C	158	12	DSR	52.8	48.8	48	42.7	38.4
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	525	12	DSR	236	230	220	205	176
ECO38 2S4 C	550	12	DSR	264	253	240	220	192
ECO38 1M4 C	600	12	DSR	300	284	270	250	216
ECO38 2M4 C	653	12	DSR	330	316	300	280	240
ECO38 1L4 C	771	12	DSR	396	378	360	330	288
ECO38 2L4 C	895	12	DSR	444	438	420	385	336
ECO38 VL4 C	957	12	DSR	465	453	440	403	352

690V

4 Pole | 60Hz | 3Phase | 0.8 PF | AVR Controlled

Winding: Special - Dedicated - 12 Lead
 RPM: 1800
 Insulation: Class H



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]
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	660	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
ECO47LV 1S4	6039	4	DER-2/A	*	*	*	*	*
ECO47LV 2S4	6239	4	DER-2/A	*	*	*	*	*
ECO47LV 2M4	6771	4	DER-2/A	*	*	*	*	*
ECO47LV 1L4	7415	4	DER-2/A	*	*	*	*	*

*Special voltage for ECO47 available on request.

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' machines.

Check factory for delivery lead times.

220V - 230V - 240V

4 Pole | 60Hz | 1Phase | 1 PF | AVR Controlled

Winding: Standard - Reconnected - 12 Lead

RPM: 1800

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1 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	5.3	5	4.8	4.4	3.8
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
ECP4 1M4 C	56	12	DSR	5.3	5	4.8	4.4	3.8
ECP4 2M4 C	61	12	DSR	6	5.7	5.5	5.1	4.4
ECP4 3M4 C	65	12	DSR	6.9	6.5	6.3	5.8	5
ECP4 4M4 C	72	12	DSR	8.5	8	7.8	7.2	6.2
ECP4 5M4 C	79	12	DSR	10.3	9.6	9.4	8.6	7.5
ECP4 1L4 C	93	12	DSR	13.1	12.3	12	11	9.6
ECP4 2L4 C	97	12	DSR	15.3	14.5	14	13	11.2
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
ECP30 1M4 C	105	12	DSR	15.3	14.5	14	13	11.2
ECP30 2M4 C	118	12	DSR	18.5	17.6	17	15	13.6
ECP30 3M4 C	130	12	DSR	23	22	21	19.5	16.8
ECP30 1L4 C	148	12	DSR	25.2	24	23	21.4	18.4
ECP30 2L4 C	158	12	DSR	27.4	26.2	25	23.2	20
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

MECC ALTE INDUSTRIAL

SERIES DELTA / ZIG-ZAG / 1PHASE DOUBLE DELTA

220V - 230V - 240V

4 Pole | 60Hz | 1Phase | 1 PF | AVR Controlled

Winding: Standard - Reconnected - 12 Lead

RPM: 1800

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1 PF				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]
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	525	12	DSR	95	88	86	78	69
ECO38 2S4 C	550	12	DSR	97	91	88	80	70
ECO38 1M4 C	600	12	DSR	118	114	110	100	88
ECO38 2M4 C	653	12	DSR	130	124	120	108	96
ECO38 1L4 C	771	12	DSR	148	141	135	123	108
ECO38 2L4 C	895	12	DSR	170	160	155	140	124
ECO38 VL4 C	957	12	DSR	174	164	159	144	127
ECO40 1S4 C	1049	12	DER-1/A	210	206	195	179	155
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

SERIES DELTA / ZIG-ZAG / 1PH DOUBLE DELTA

PARALLEL DELTA

MECC ALTE INDUSTRIAL

2 of 2

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 applications.

220V - 230V - 240V

4 Pole | 60Hz | 1Phase | 0.8 PF | AVR Controlled

Winding: Standard - Reconnected - 12 Lead

RPM: 1800

Insulation: Class H



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	4.8	4.6	4.4	4	3.5
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
ECP4 1M4 C	56	12	DSR	4.9	4.5	4.4	4	3.5
ECP4 2M4 C	61	12	DSR	5.5	5.2	5	4.6	4
ECP4 3M4 C	65	12	DSR	6.4	6	5.8	5.3	4.6
ECP4 4M4 C	72	12	DSR	7.6	7.2	7	6.5	5.6
ECP4 5M4 C	79	12	DSR	9.1	8.6	8.4	7.7	6.7
ECP4 1L4 C	93	12	DSR	11.8	11.1	10.8	9.9	8.6
ECP4 2L4 C	97	12	DSR	13.8	13.1	12.6	11.7	10.1
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
ECP30 1M4 C	105	12	DSR	13.7	13.1	12.6	11.7	10.1
ECP30 2M4 C	118	12	DSR	16.7	15.8	15.3	13.5	12.2
ECP30 3M4 C	130	12	DSR	20.6	19.8	18.9	17.6	15.1
ECP30 1L4 C	148	12	DSR	22	21.1	20.2	18.8	16.2
ECP30 2L4 C	158	12	DSR	24	23.1	22	20.4	17.6
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

SERIES DELTA / ZIG-ZAG / 1PHASE DOUBLE DELTA

MECC ALTE INDUSTRIAL

220V - 230V - 240V

4 Pole | 60Hz | 1Phase | 0.8 PF | AVR Controlled

Winding: Standard - Reconnected - 12 Lead

RPM: 1800

Insulation: Class H



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]
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	525	12	DSR	85	80	78	71	62
ECO38 2S4 C	550	12	DSR	87	83	80	73	64
ECO38 1M4 C	600	12	DSR	109	104	100	91	80
ECO38 2M4 C	653	12	DSR	118	112	108	97	86
ECO38 1L4 C	771	12	DSR	130	124	119	108	95
ECO38 2L4 C	895	12	DSR	148	140	136	123	109
ECO38 VL4 C	957	12	DSR	152	144	140	126	112
ECO40 1S4 C	1049	12	DER-1/A	201	194	184	169	147
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

SERIES DELTA / ZIG-ZAG / 1PH DOUBLE DELTA

PARALLEL DELTA

MECC ALTE INDUSTRIAL

2 of 2

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 applications.

240V

4 Pole | 60Hz | 1Phase | 1 PF | AVR Controlled

Winding: Dedicated - 4 Lead

RPM: 1800

Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C / 1 PF				
				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
ECP4 1M4 C	56	4	DSR	6.5	6.1	6	5.5	4.8
ECP4 2M4 C	61	4	DSR	8.2	7.9	7.5	6.8	6
ECP4 3M4 C	65	4	DSR	9.3	8.9	8.5	7.7	6.9
ECP4 4M4 C	72	4	DSR	11.4	10.8	10.5	9.5	8.4
ECP4 5M4 C	79	4	DSR	13.6	12.8	12.5	11.6	10
ECP4 1L4 C	93	4	DSR	16.4	15.4	15	13.9	12
ECP4 2L4 C	97	4	DSR	18.5	17.3	17	15.9	13.6
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
ECP30 1M4 C	105	4	DSR	18.5	17.3	17	15.9	13.6
ECP30 2M4 C	118	4	DSR	24	22.3	22	20.4	17.6
ECP30 3M4 C	130	4	DSR	27.3	25.7	25	22	20
ECP30 1L4 C	148	4	DSR	33.6	32	31	29.7	25
ECP30 2L4 C	158	4	DSR	40.6	38	37	35.2	29.8
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.

240V

4 Pole | 60Hz | 1Phase | 0.8 PF | AVR Controlled

Winding: Dedicated - 4 Lead

RPM: 1800

Insulation: Class H



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	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
ECP4 1M4 C	56	4	DSR	6	5.6	5.5	5	4.4
ECP4 2M4 C	61	4	DSR	7.2	6.7	6.5	5.9	5.2
ECP4 3M4 C	65	4	DSR	8.1	7.6	7.4	6.7	5.9
ECP4 4M4 C	72	4	DSR	10.1	9.5	9.3	8.5	7.4
ECP4 5M4 C	79	4	DSR	12.3	11.6	11.3	10.9	9
ECP4 1L4 C	93	4	DSR	14.7	13.9	13.5	13	10.8
ECP4 2L4 C	97	4	DSR	17.1	16	15.7	14.4	12.6
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
ECP30 1M4 C	105	4	DSR	17.1	16	15.7	14.4	12.6
ECP30 2M4 C	118	4	DSR	20.7	19.3	19	17.4	15.2
ECP30 3M4 C	130	4	DSR	24	22.6	22	20	17.6
ECP30 1L4 C	148	4	DSR	28	26.8	26	24.4	20.8
ECP30 2L4 C	158	4	DSR	34.5	32.5	30	28.9	24
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.

LT3N

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

Winding: Standard - 4 Lead
 RPM: 1500/1800
 Insulation: Class H



4 Pole			kVA @ 230/115V, 50Hz, 1 PF			Eff %
MODEL	WEIGHT (kg)	LENGTH (mm)	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]	
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 PF			Eff %
MODEL	WEIGHT (kg)	LENGTH (mm)	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]	
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 PF			Eff %
MODEL	WEIGHT (kg)	LENGTH (mm)	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]	
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 PF			Eff %
MODEL	WEIGHT (kg)	LENGTH (mm)	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 80/40 [B]	
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.

NPE 32

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

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



MECC ALTE SPACE SAVER

3Phase			kVA 115/200/230/400V 50 Hz, 0.8 PF					kVA 138/240/277/480V 60 Hz, 0.8 PF				
			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 PF					kVA 120/240V 60 Hz, 1 PF				
			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	4	6.5	6.3	6	5.8	4.8	8.7	8.3	8	7.6	6.4
NPE32 2S4 C	83	4	9.8	9.4	9	8.6	7.2	12	11.5	11	10.5	8.8
NPE32 1M4 C	98	4	14.7	14.3	13.5	13	10.8	18	17.3	16.5	15.9	13.2
NPE32 2M4 C	109	4	18.5	17.9	17	16.4	13.6	22.9	22.2	21	19.8	16.8
NPE32 L4 C	120	4	21.8	21.1	20	18.9	16	27.3	26.1	25	23.9	20
NPE32 VL4 C	145	4	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 PF					kVA 220V/230V/240V 60 Hz, 1 PF				
			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.

NPE 32

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

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



MECC ALTE SPACE SAVER

3Phase

MODEL	WEIGHT (kg)	LEADS	kVA 115/200/230/400V 50 Hz, 0.8 PF		kVA 138/240/277/480V 60 Hz, 0.8 PF	
			Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 125/40 [H]	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 PF		kVA 120/240V 60 Hz, 1 PF	
			Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 125/40 [H]	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 PF		kVA 220V/230V/240V 60 Hz, 1 PF	
			Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 125/40 [H]	Continuous 105/40 [F]
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

NPE 34

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

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



MECC ALTE SPACE SAVER

3Phase			kVA 115/200/230/400V 50 Hz, 0.8 PF					kVA 138/240/277/480V 60 Hz, 0.8 PF				
			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
NPE34 1S4 C	210	12	47	45,7	43	38,8	34,4	56,5	54,5	51,5	46,7	41,3
NPE34 2S4 C	230	12	55	52,5	50	45	40	65,5	63	60	54,5	48
NPE34 1M4 C	250	12	65,5	63,5	60	54	48	79	76	72	65	57,5
NPE34 2M4 C	271	12	76,5	74	70	63	56	92	89	84	76	67
NPE34 VL4 C	315	12	98,5	95	90	81,5	72	114	110	105	95	84

1Phase (Dedicated Winding)			kVA 115/230V 50 Hz, 1 PF					kVA 120/240V 60 Hz, 1 PF				
			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
NPE34 1S4 C	210	4	33	31	30	28	24	39	37	36	34	29
NPE34 2S4 C	230	4	38	37	35	32	28	46	44	42	38	34
NPE34 1M4 C	250	4	44	42	40	36	32	52	50	48	44	38
NPE34 2M4 C	271	4	50	48	46	42	37	61	58	56	51	45
NPE34 VL4 C	315	4	65	62	60	55	48	78	74	72	66	58

1Phase (Re-connected)			kVA 220/230/240V 50 Hz, 1 PF					kVA 220/230/240V 60 Hz, 1 PF				
			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
NPE34 1S4 C	210	12	27,3	25,4	25	23,3	20	28,3	27	26	24,7	20,8
NPE34 2S4 C	230	12	31,6	30	29	26,2	23,2	32,7	31	30	27,5	24
NPE34 1M4 C	250	12	37	35	34	31	27,2	38,2	36	35	31,4	28
NPE34 2M4 C	271	12	44,7	42	41	37,7	32,8	46,9	44,2	43	38,9	34,4
NPE34 VL4 C	315	12	51	48	47	42	37,6	53,5	51	49	44,2	39,2

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.

Totally Enclosed

4 Pole | 50/60Hz | 3Phase | 0.8 PF

Winding: 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 black severe environment protection, 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, 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.

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ 50Hz Temp. Rise/Amb. C/ 0.8 PF			
				115 / 200 / 230 / 400 V			
				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

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ 60Hz Temp. Rise/Amb. C/ 0.8 PF			
				138 / 240 / 276 / 480 V			
				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

Consult Factory for pricing.

Above generators are built to IP55 standards.

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



INGRESS PROTECTION

HC Alternator

14/20/24/26 Pole | 400Hz | 3Phase | 0.8 PF

Winding: Standard - 115/200V | 208V - 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	
					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.

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 Industrial

2 Pole | 50 Hz | 3 Phase | 0.8 PF | AVR Controlled

Voltage: 115 / 200 / 230 / 400 Volts
Winding: Standard 12 Leads
RPM: 3000
Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	8,6	8,3	8	7,2	6,4
ECP3 2S2	62	12	DSR	11,2	10,4	10	9	8
ECP3 3S2	68	12	DSR	14	13	12,5	11	10
ECP3 1L2	80	12	DSR	17,2	16,6	16	14,5	12,8
ECP3 2L2	88	12	DSR	21,5	20,6	20	18	16
ECP28 M2 C	126	12	DSR	24	23	22	20	17,6
ECP28 1L2 C	136	12	DSR	29	28	27	25	21,6
ECP28 2L2 C	141	12	DSR	33,5	32,4	31,5	30	25,2
ECP28 VL2 C	156	12	DSR	43	41,3	40	37	32
ECP32 1S2 C	173	12	DSR	48	46	44	40	35,2
ECP32 2S2 C	199	12	DSR	54	52	50	45	40
ECP32 M2 C	212	12	DSR	71	69	66	60	52,8
ECP32 L2 C	231	12	DSR	89	85,5	82	75	65,6
ECP34 1S2 A	344	12	DSR	110	105	100	90	80
ECP34 2S2 A	413	12	DSR	135	130	125	113	100
ECP34 1L2 A	456	12	DSR	168	162	156	140	124
ECP34 2L2 A	492	12	DSR	184	177	170	154	136
ECO38 1S2 A	510	12	DSR	*	*	158	142	*
ECO38 1L2 A	676	12	DSR	*	*	208	188	*
ECO38 2L2 A	790	12	DSR	*	*	300	270	*

Voltage: 110 / 190 / 220 / 380 Volts
Winding: Standard 12 Leads
RPM: 3000
Insulation: Class H

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	8,6	8,3	8	7,2	6,4
ECP3 2S2	62	12	DSR	11,2	10,4	10	9	8
ECP3 3S2	68	12	DSR	14	13	12,5	11	10
ECP3 1L2	80	12	DSR	17,2	16,6	16	14,5	12,8
ECP3 2L2	88	12	DSR	21,5	20,6	20	18	16
ECP28 M2 C	126	12	DSR	24	23	22	20	17,6
ECP28 1L2 C	136	12	DSR	29	28	27	25	21,6
ECP28 2L2 C	141	12	DSR	33,5	32,4	31,5	30	25,2
ECP28 VL2 C	156	12	DSR	43	41,3	40	37	32
ECP32 1S2 C	173	12	DSR	48	46	44	40	35,2
ECP32 2S2 C	199	12	DSR	54	52	50	45	40
ECP32 M2 C	212	12	DSR	71	69	66	60	52,8
ECP32 L2 C	231	12	DSR	89	85,5	82	75	65,6
ECP34 1S2 A	344	12	DSR	110	105	100	90	80
ECP34 2S2 A	413	12	DSR	135	130	125	113	100
ECP34 1L2 A	456	12	DSR	168	162	156	140	124
ECP34 2L2 A	492	12	DSR	184	177	170	154	136

For different nominal voltages and not expressed ratings, please consult Factory.

2 Pole Industrial

2 Pole | 50 Hz | 3 Phase | 0.8 PF | AVR Controlled

Voltage: 120 / 208 / 240 / 415 Volts
Winding: Standard 12 Leads
RPM: 3000
Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	8,6	8,3	8	7,2	6,4
ECP3 2S2	62	12	DSR	11,2	10,4	10	9	8
ECP3 3S2	68	12	DSR	14	13	12,5	11	10
ECP3 1L2	80	12	DSR	17,2	16,6	16	14,5	12,8
ECP3 2L2	88	12	DSR	21,5	20,6	20	18	16
ECP28 M2 C	126	12	DSR	24	23	22	20	17,6
ECP28 1L2 C	136	12	DSR	27	26	25	23	20
ECP28 2L2 C	141	12	DSR	33,5	32,4	31,5	30	25,2
ECP28 VL2 C	156	12	DSR	43	41,3	40	37	32
ECP32 1S2 C	173	12	DSR	48	46	44	40	35,2
ECP32 2S2 C	199	12	DSR	54	52	50	45	40
ECP32 M2 C	212	12	DSR	70	67,5	65	59	52
ECP32 L2 C	231	12	DSR	87	83,5	80	73	64
ECP34 1S2 A	344	12	DSR	110	105	100	90	80
ECP34 2S2 A	413	12	DSR	135	130	125	113	100
ECP34 1L2 A	456	12	DSR	168	162	156	140	124
ECP34 2L2 A	492	12	DSR	184	177	170	154	136

Voltage: 127 / 220 / 254 / 440 Volts
Winding: Standard 12 Leads
RPM: 3000
Insulation: Class H

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	7,3	7	6,8	6	5,4
ECP3 2S2	62	12	DSR	9,4	8,8	8,5	7,5	6,8
ECP3 3S2	68	12	DSR	11,6	10,9	10,5	9	8,4
ECP3 1L2	80	12	DSR	14	13,4	13	11,5	10,4
ECP3 2L2	88	12	DSR	17,5	16,5	16	14,3	12,8
ECP28 M2 C	126	12	DSR	20,7	20	19	17,3	15,2
ECP28 1L2 C	136	12	DSR	24,7	24	23	21	18,4
ECP28 2L2 C	141	12	DSR	28,7	27,8	27	24,5	21,6
ECP28 VL2 C	156	12	DSR	36,6	35	34	31	27,2
ECP32 1S2 C	173	12	DSR	41,5	39,7	38	34,5	30,4
ECP32 2S2 C	199	12	DSR	46	44,2	42,5	38,5	34
ECP32 M2 C	212	12	DSR	59	57,5	55	50	44
ECP32 L2 C	231	12	DSR	73	70	67	61	53,5
ECP34 1S2 A	344	12	DSR	93,5	90	85	75	68
ECP34 2S2 A	413	12	DSR	118	114	110	100	88
ECP34 1L2 A	456	12	DSR	140	135	130	115	104
ECP34 2L2 A	492	12	DSR	162	156	150	135	120

For different nominal voltages and not expressed ratings, please consult Factory.

2 Pole Industrial

2 Pole | 60 Hz | 3 Phase | 0.8 PF | AVR Controlled

Voltage: 138 / 240 / 277 / 480 Volts
Winding: Standard 12 Leads
RPM: 3600
Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	10,4	10	9,6	8,6	7,7
ECP3 2S2	62	12	DSR	13,5	12,5	12	10,8	9,6
ECP3 3S2	68	12	DSR	16,9	15,6	15	13	12
ECP3 1L2	80	12	DSR	20,8	20	19,2	17	15,4
ECP3 2L2	88	12	DSR	26	24,7	24	21,5	19,2
ECP28 M2 C	126	12	DSR	29	27,5	26,5	24	21,2
ECP28 1L2 C	136	12	DSR	35	33,5	32,5	30	26
ECP28 2L2 C	141	12	DSR	40	39	38	36	30,4
ECP28 VL2 C	156	12	DSR	51,5	49,6	48	44	38,4
ECP32 1S2 C	173	12	DSR	58	55,5	53	48	42,4
ECP32 2S2 C	199	12	DSR	65	63	60	54	48
ECP32 M2 C	212	12	DSR	85	83	79,5	72	63,6
ECP32 L2 C	231	12	DSR	107	103	98,5	90	78,8
ECP34 1S2 A	344	12	DSR	132	127	120	108	96
ECP34 2S2 A	413	12	DSR	162	156	150	135	120
ECP34 1L2 A	456	12	DSR	202	195	187	169	149
ECP34 2L2 A	492	12	DSR	220	213	208	188	166
ECO38 1S2 A	510	12	DSR	*	*	188	169	*
ECO38 1L2 A	676	12	DSR	*	*	250	225	*
ECO38 2L2 A	790	12	DSR	*	*	360	324	*

Voltage: 133 / 230 / 266 / 460 Volts
Winding: Standard 12 Leads
RPM: 3600
Insulation: Class H

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	10,4	10	9,6	8,6	7,7
ECP3 2S2	62	12	DSR	13,5	12,5	12	10,8	9,6
ECP3 3S2	68	12	DSR	16,9	15,6	15	13	12
ECP3 1L2	80	12	DSR	20,8	20	19,2	17	15,4
ECP3 2L2	88	12	DSR	26	24,7	24	21,5	19,2
ECP28 M2 C	126	12	DSR	29	27,5	26,5	24	21,2
ECP28 1L2 C	136	12	DSR	35	33,5	32,5	30	26
ECP28 2L2 C	141	12	DSR	40	39	38	36	30,4
ECP28 VL2 C	156	12	DSR	51,5	49,6	48	44	38,4
ECP32 1S2 C	173	12	DSR	58	55,5	53	48	42,4
ECP32 2S2 C	199	12	DSR	65	63	60	54	48
ECP32 M2 C	212	12	DSR	85	83	79,5	72	63,6
ECP32 L2 C	231	12	DSR	107	103	98,5	90	78,8
ECP34 1S2 A	344	12	DSR	132	127	120	108	96
ECP34 2S2 A	413	12	DSR	162	156	150	135	120
ECP34 1L2 A	456	12	DSR	202	195	187	169	149
ECP34 2L2 A	492	12	DSR	220	213	208	188	166

For different nominal voltages and not expressed ratings, please consult Factory.

2 Pole Industrial

2 Pole | 60 Hz | 3 Phase | 0.8 PF | AVR Controlled

Voltage: 127 / 220 / 254 / 440 Volts
Winding: Standard 12 Leads
RPM: 3600
Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	10,4	10	9,6	8,6	7,7
ECP3 2S2	62	12	DSR	13,5	12,5	12	10,8	9,6
ECP3 3S2	68	12	DSR	16,9	15,6	15	13	12
ECP3 1L2	80	12	DSR	20,8	20	19,2	17	15,4
ECP3 2L2	88	12	DSR	26	24,7	24	21,5	19,2
ECP28 M2 C	126	12	DSR	27,5	26	25	23	20
ECP28 1L2 C	136	12	DSR	33,4	32	31	28,5	25
ECP28 2L2 C	141	12	DSR	38	37	36	34	28,8
ECP28 VL2 C	156	12	DSR	48,3	46,5	45	41,5	36
ECP32 1S2 C	173	12	DSR	56	53,5	51	46	40,8
ECP32 2S2 C	199	12	DSR	62,8	60,4	58	52	46,4
ECP32 M2 C	212	12	DSR	80,2	78,3	75	68	60
ECP32 L2 C	231	12	DSR	101	97	93	85	74,4
ECP34 1S2 A	344	12	DSR	132	127	120	108	96
ECP34 2S2 A	413	12	DSR	162	156	150	135	120
ECP34 1L2 A	456	12	DSR	187	181	174	156	139
ECP34 2L2 A	492	12	DSR	207	200	196	173	156

Voltage: 120 / 208 / 240 / 415 Volts
Winding: Standard 12 Leads
RPM: 3600
Insulation: Class H

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	9,2	8,8	8,5	7	6,8
ECP3 2S2	62	12	DSR	11,8	10,9	10,5	9	8,4
ECP3 3S2	68	12	DSR	14,6	13,5	13	10,5	10,4
ECP3 1L2	80	12	DSR	18,4	17,6	17	14	13,6
ECP3 2L2	88	12	DSR	23	21,6	21	18	16,8
ECP28 M2 C	126	12	DSR	24,2	22,8	22	20	17,6
ECP28 1L2 C	136	12	DSR	29	27,8	27	24,5	21,6
ECP28 2L2 C	141	12	DSR	33,7	32,8	32	30	25,6
ECP28 VL2 C	156	12	DSR	43	41,3	40	37,5	32
ECP32 1S2 C	173	12	DSR	50,5	48,2	46	41,5	36,8
ECP32 2S2 C	199	12	DSR	57	54,5	52	47,5	41,6
ECP32 M2 C	212	12	DSR	75	71	68	61,5	54,5
ECP32 L2 C	231	12	DSR	92,5	88	84	76	67
ECP34 1S2 A	344	12	DSR	115	111	105	95	84
ECP34 2S2 A	413	12	DSR	140	135	130	120	104
ECP34 1L2 A	456	12	DSR	172	166	160	145	128
ECP34 2L2 A	492	12	DSR	185	179	175	160	140
ECO38 1S2 A	510	12	DSR	*	*	163	150	*
ECO38 1L2 A	676	12	DSR	*	*	215	197	*
ECO38 2L2 A	790	12	DSR	*	*	315	288	*

For different nominal voltages and not expressed ratings, please consult Factory.

2 Pole Industrial

50/60 Hz | 1 Phase | 1 PF | AVR Controlled

Voltage: 220/230/240 Volts
Winding: Standard 12 Leads - Reconnected
RPM: 3000
Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	5,9	5,7	5,5	5	4,4
ECP3 2S2	62	12	DSR	7,8	7,3	7	6,3	5,6
ECP3 3S2	68	12	DSR	9	8,3	8	7,2	6,4
ECP3 1L2	80	12	DSR	11,3	10,9	10,5	9,6	8,4
ECP3 2L2	88	12	DSR	13,5	12,8	12,5	11,4	10
ECP28 M2 C	126	12	DSR	15,8	15	14,5	13	11,6
ECP28 1L2 C	136	12	DSR	18,5	17,6	17	15	13,6
ECP28 2L2 C	141	12	DSR	21,8	20,5	20	18	16
ECP28 VL2 C	156	12	DSR	26,2	24,6	24	22	19,2
ECP32 1S2 C	173	12	DSR	31,6	30	29	26	22,2
ECP32 2S2 C	199	12	DSR	36	35	33	29	26,4
ECP32 M2 C	212	12	DSR	47	44	43	39	34,4
ECP32 L2 C	231	12	DSR	59	55,2	54	49	43,2
ECP34 1S2 A	344	12	DSR	73	69	67	60	53,5
ECP34 2S2 A	413	12	DSR	91	85	83	75	66,5
ECP34 1L2 A	456	12	DSR	113	106	104	93	83
ECP34 2L2 A	492	12	DSR	123	116	113	103	90,5

Voltage: 220/230/240 Volts
Winding: Standard 12 Leads - Reconnected
RPM: 3600
Insulation: Class H

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	6,2	6	5,8	5,2	4,6
ECP3 2S2	62	12	DSR	8,3	7,7	7,4	7,5	6
ECP3 3S2	68	12	DSR	9,4	8,7	8,4	7,6	6,7
ECP3 1L2	80	12	DSR	11,8	11,4	11	10	8,8
ECP3 2L2	88	12	DSR	13,5	13,4	13	11,6	10,4
ECP28 M2 C	126	12	DSR	16,4	15,4	15	13	12
ECP28 1L2 C	136	12	DSR	19,6	18,6	18	16	14,4
ECP28 2L2 C	141	12	DSR	23	21,7	21	19	16,8
ECP28 VL2 C	156	12	DSR	27,3	26,2	25	23	20
ECP32 1S2 C	173	12	DSR	31,6	30	29	26	22,2
ECP32 2S2 C	199	12	DSR	36	35	33	29,0	26,4
ECP32 M2 C	212	12	DSR	47	44	43	39	34,4
ECP32 L2 C	231	12	DSR	59	55,2	54	49	43,2
ECP34 1S2 A	344	12	DSR	74	69	68	61	54
ECP34 2S2 A	413	12	DSR	91	85	84	76	67
ECP34 1L2 A	456	12	DSR	114	106	105	94	84
ECP34 2L2 A	492	12	DSR	124	116	114	104	91

For different nominal voltages and not expressed ratings, please consult Factory.

2 Pole Industrial

50/60 Hz | 1 Phase | 0.8 PF | AVR Controlled

Voltage: 220/230/240 Volts
Winding: Standard 12 Leads - Reconnected
RPM: 3000
Insulation: Class H



MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	5,3	5,1	5	4,5	4
ECP3 2S2	62	12	DSR	6,8	6,4	6,3	6,1	5
ECP3 3S2	68	12	DSR	7,8	7,3	7,2	6,5	5,8
ECP3 1L2	80	12	DSR	10	9,7	9,5	8,6	7,6
ECP3 2L2	88	12	DSR	12,2	11,5	11,3	10,3	9
ECP28 M2 C	126	12	DSR	14,3	13,5	13	11,7	10,5
ECP28 1L2 C	136	12	DSR	16,7	15,8	15,3	13,5	12,2
ECP28 2L2 C	141	12	DSR	19,6	18,5	18	16,2	14,4
ECP28 VL2 C	156	12	DSR	23,5	22	21,6	19,8	17,3
ECP32 1S2 C	173	12	DSR	25,3	24	23,2	20,8	18,6
ECP32 2S2 C	199	12	DSR	28,8	28	26,4	23,2	21
ECP32 M2 C	212	12	DSR	37,5	35,2	34,4	31,2	27,5
ECP32 L2 C	231	12	DSR	47	44,2	43,2	39,2	34,6
ECP34 1S2 A	344	12	DSR	66	62	60	54	48,2
ECP34 2S2 A	413	12	DSR	81,5	77	75	67,5	60
ECP34 1L2 A	456	12	DSR	102	96	93,5	84	75
ECP34 2L2 A	492	12	DSR	110	104	101	93	81,5

Voltage: 220/230/240 Volts
Winding: Standard 12 Leads - Reconnected
RPM: 3600
Insulation: Class H

MODEL	WEIGHT (kg)	LEADS	AVR	kVA @ Temp. Rise / Ambient C				
				Standby 163/27	Standby 150/40	Continuous 125/40 [H]	Continuous 105/40 [F]	Continuous 105/40 [B]
ECP3 1S2	56	12	DSR	5,6	5,4	5,2	4,7	4,2
ECP3 2S2	62	12	DSR	7,4	7	6,6	6,7	5,3
ECP3 3S2	68	12	DSR	8,5	8	7,6	6,8	6,1
ECP3 1L2	80	12	DSR	10,7	10,3	9,9	9	8
ECP3 2L2	88	12	DSR	12,2	12	12	10,4	9,4
ECP28 M2 C	126	12	DSR	15	14,2	13,8	12,3	11
ECP28 1L2 C	136	12	DSR	17,5	16,6	16	14,2	13
ECP28 2L2 C	141	12	DSR	20,6	19,5	19,0	17	15
ECP28 VL2 C	156	12	DSR	24,7	23,8	22,7	20,8	18,2
ECP32 1S2 C	173	12	DSR	25,3	24	23,2	20,8	18,6
ECP32 2S2 C	199	12	DSR	28,8	28	26,4	23,2	21
ECP32 M2 C	212	12	DSR	37,5	35,2	34,4	31,2	27,5
ECP32 L2 C	231	12	DSR	47	44,2	43,2	39,2	34,6
ECP34 1S2 A	344	12	DSR	66,5	63	61	54,5	48,7
ECP34 2S2 A	413	12	DSR	82	78	75,5	68	60
ECP34 1L2 A	456	12	DSR	103	98	94,5	84,5	75,5
ECP34 2L2 A	492	12	DSR	111	105	102	93,5	82

For different nominal voltages and not expressed ratings, please consult Factory.

Portable

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

Winding: Standard - 230V/240V - 4 Lead
 RPM: 3000/3600
 Insulation: Class H



2 Pole 1Phase (Capacitor)		kVA @ 1 PF, 50Hz		kVA @ 1 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	2.2	72.5	2.7	73.4
S15W-85	13.4	2.7	73.4	3.4	74.3
S15W-102	14.8	3	73.3	3.7	74.2
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	5	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	5	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 P	41.7	8.5	79	10.5	79.4
S20FS-160 P	48.7	10.0	79.2	12	79.6
S20F-200 P	56.5	12.0	80.3	14.4	80.8
S20F-230 P	60	13.0	82.1	15.5	82.7

Above machines are brushless with capacitor control and optional AVR.

2 Pole 1Phase (AVR)		kVA @ 1 PF, 50Hz		kVA @ 1 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 P	41.2	8	79.4	9.6	79.8
ES20FS-160 P	48.2	9.5	79.6	11.4	80
ES20F-200 P	56	11	80.7	13.2	81.2

Above machines are brush type with AVR control.

Portable

2 Pole | 50/60Hz | 3Phase | 0.8 PF

Winding: Standard - 400V/480V - 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 P	44.7	10	81.5	12	83.0
T20FS-160 P	51.7	12.5	82.0	15	83.5
T20F-200 P	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 P	44.2	9	81.9	11	83.6
ET20FS-160 P	51.2	11.5	82.4	14	83.9
ET20F-200 P	59	13.5	82.9	16.5	84.1

Above machines are brush type with AVR control.

50Hz Connections

Wiring Diagram

50

Three Phase

50Hz		Series 3, 4, 28, 30, 31, 32, 34, 38				Series 40, 43, 46, 47				
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 Series High Zig-Zag		L-L	440	460	480	508	880	920	960	1016
		L-M	220	230	240	254	440	460	480	508
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

Single Phase (Dedicated Winding)

50Hz		Series 3, 4, 28, 30, 31, 32, 34			
Series		L-L	220	230	240
		L-M	110	115	120
Parallel		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.

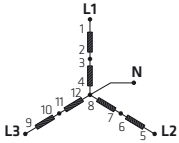
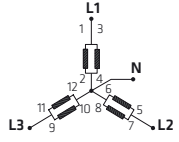
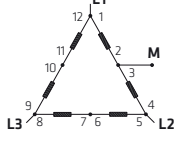
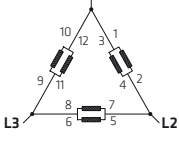
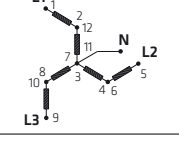
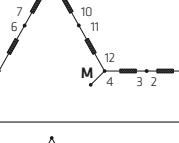
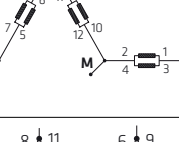
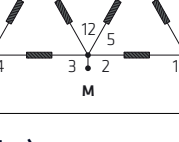
(**) Half of rated power is obtainable when connecting between L1-M or L2-M.

60Hz Connections

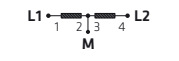
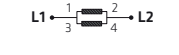
Wiring Diagram

60

Three Phase

60Hz		Series 3, 4, 28, 30, 31, 32, 34, 38				Series 40, 43, 46, 47				
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	830
		L-N	207	220	230	240	415	440	460	480
Single Phase Series High Zig-Zag		L-L	480	508	532	554	880	920	960	1108
		L-M	240	254	266	277	440	460	480	554
Single Phase Parallel Zig-Zag		L-L	240	254	266	277	440	460	480	554
		L-M	120	127	133	139	220	230	240	277
Single Phase Double Delta (**)		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, 4, 28, 30, 31, 32, 34			
Series		L-L	220	230	240
		L-M	110	115	120
Parallel		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.

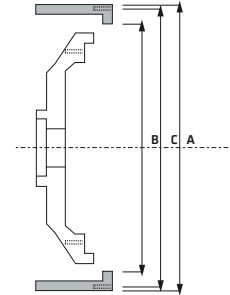
(**) Half of rated power is obtainable when connecting between L1-M or L2-M.

SAE Flywheel Housing Dimensions

Mounting Arrangements

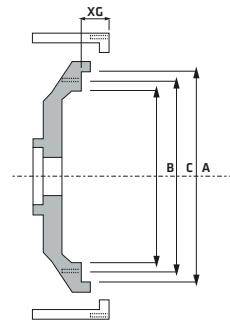
S.A.E. Flywheel Housing Dimensions, mm (in)

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	ECP4	ECP28	ECP30	ECP32	ECP34	ECO38	ECO40	ECO43	ECO46	ECO47	NPE32	NPE34
5	6.5	•	•	•	•	•							•	
	7.5	•	•	•	•	•							•	
	8	•	•	•	•	•							•	
4	6.5	•	•	•	•	•							•	
	7.5	•	•	•	•	•*							•	
	8	•	•	•	•	•							•	
	10	•	•	•	•	•							•	•
3	7.5			•									•	
	8	•	•	•	•	•							•	
	10	•	•	•	•	•	•						•	
2	10			•		•	•	•						
	11.5			•		•	•	•						
1	11.5					•	•	•						
	14						•	•	•	•				
1/2	14							•	•	•				
	18								•	•				
0	14							•	•	•				
	18								•	•	•			
	21									•	•			
00	18									•	•	•		
	21									•	•	•		

* Available only on "S" and "M" models

Infographic Icon Summary



TWO POLE



FOUR POLE



MULTI POLE



HERTZ



HERTZ



HERTZ



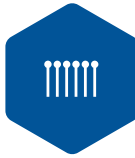
SINGLE PHASE



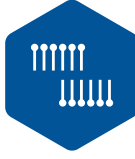
THREE PHASE



FOUR WIRE



SIX WIRE



TWELVE WIRE



CAPACITOR



COMPOUND



DIGITAL AVR
VOLTAGE REGULATOR



AVR DER2
VOLTAGE REGULATOR

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