



Totally Focused. Totally Independent.

Technical Guide

ECP30 4 C

**G-TYPE**



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



## General characteristics

Pole number	4	Insulation class	H
Phase number	3	Protection class	IP23
Number of wires	12	NDE Bearing type	6207-2RS
Execution	Brushless	DE Bearing type	-
Regulator type	DSR	Maximum Overspeed	2250
Winding pitch	2/3	Altitude	0-1000
Code voltage reference	T0405S3	Balancing	ISO1940-1

## Ratings 50Hz

kVA / kW @ Temp. Rise / Ambient °C - 0.8 PF		STANDBY-163/27				STANDBY-150/40				H-125/40				F-105/40				B-80/40			
Series		380V	400V	415V	440V	380V	400V	415V	440V	380V	400V	415V	440V	380V	400V	415V	440V	380V	400V	415V	440V
Parallel Star YY		190V	200V	208V	220V	190V	200V	208V	220V	190V	200V	208V	220V	190V	200V	208V	220V	190V	200V	208V	220V
Series Delta Δ		220V	230V	240V	254V	220V	230V	240V	254V	220V	230V	240V	254V	220V	230V	240V	254V	220V	230V	240V	254V
Parallel Delta ΔΔ		110V	115V	120V	127V	110V	115V	120V	127V	110V	115V	120V	127V	110V	115V	120V	127V	110V	115V	120V	127V
<b>ECP30 1M4 C</b>	<b>kVA</b>	22	<b>22</b>	22	20,4	20,5	<b>20,5</b>	20,5	19	20	<b>20</b>	20	18,5	18,5	<b>18,5</b>	18,5	17,5	16	<b>16</b>	16	15
	<b>kW</b>	17,6	<b>17,6</b>	17,6	16,3	16,4	<b>16,4</b>	16,4	15,2	16	<b>16</b>	16	14,8	14,8	<b>14,8</b>	14,8	14	12,8	<b>12,8</b>	12,8	11,8
<b>ECP30 2M4 C</b>	<b>kVA</b>	27,5	<b>27,5</b>	27,5	25,2	25,5	<b>25,5</b>	25,5	23,7	25	<b>25</b>	25	23	23	<b>23</b>	23	21,4	20	<b>20</b>	20	18,4
	<b>kW</b>	22	<b>22</b>	22	20,2	20,4	<b>20,4</b>	20,4	19	20	<b>20</b>	20	18,4	18,4	<b>18,4</b>	18,4	17,1	16	<b>16</b>	16	14,7
<b>ECP30 3M4 C</b>	<b>kVA</b>	33	<b>33</b>	33	29,5	30,5	<b>30,5</b>	30,5	27,8	30	<b>30</b>	30	27	26	<b>26</b>	26	25,1	24	<b>24</b>	24	21,6
	<b>kW</b>	26,4	<b>26,4</b>	26,4	23,6	24,4	<b>24,4</b>	24,4	22,2	24	<b>24</b>	24	21,6	20,8	<b>20,8</b>	20,8	20,1	19,2	<b>19,2</b>	19,2	17,3
<b>ECP30 1L4 C</b>	<b>kVA</b>	38,5	<b>38,5</b>	38,5	34,4	35,6	<b>35,6</b>	35,6	32,4	35	<b>35</b>	35	31,5	30,3	<b>30,3</b>	30,3	29,3	28	<b>28</b>	28	25,2
	<b>kW</b>	30,8	<b>30,8</b>	30,8	27,5	28,5	<b>28,5</b>	28,5	25,9	28	<b>28</b>	28	25,2	24,2	<b>24,2</b>	24,2	23,4	22,4	<b>22,4</b>	22,4	20,2
<b>ECP30 2L4 C</b>	<b>kVA</b>	44	<b>44</b>	44	39	40,7	<b>40,7</b>	40,7	37	40	<b>40</b>	40	36	34,7	<b>34,7</b>	34,7	33,5	32	<b>32</b>	32	28,8
	<b>kW</b>	35,2	<b>35,2</b>	35,2	31,2	32,6	<b>32,6</b>	32,6	29,6	32	<b>32</b>	32	28,8	27,8	<b>27,8</b>	27,8	26,8	25,6	<b>25,6</b>	25,6	23

## Ratings 60Hz

kVA / kW @ Temp. Rise / Ambient °C - 0.8 PF		STANDBY-163/27				STANDBY-150/40				H-125/40				F-105/40				B-80/40			
Series		415V	440V	460V	480V	415V	440V	460V	480V	415V	440V	460V	480V	415V	440V	460V	480V	415V	440V	460V	480V
Parallel Star YY		208V	220V	230V	240V	208V	220V	230V	240V	208V	220V	230V	240V	208V	220V	230V	240V	208V	220V	230V	240V
Series Delta Δ		240V	254V	265V	277V	240V	254V	265V	277V	240V	254V	265V	277V	240V	254V	265V	277V	240V	254V	265V	277V
Parallel Delta ΔΔ		120V	127V	133V	138V	120V	127V	133V	138V	120V	127V	133V	138V	120V	127V	133V	138V	120V	127V	133V	138V
<b>ECP30 1M4 C</b>	<b>kVA</b>	23,1	25,3	26,4	<b>26,4</b>	21,5	23,6	24,6	<b>24,6</b>	21	23	24	<b>24</b>	19	20	22	<b>22</b>	16,8	18,4	19,2	<b>19,2</b>
	<b>kW</b>	18,5	20,2	21	<b>21</b>	17,2	18,9	19,7	<b>19,7</b>	16,8	18,4	19,2	<b>19,2</b>	15,2	16	17,6	<b>17,6</b>	13,4	14,7	15,4	<b>15,4</b>
<b>ECP30 2M4 C</b>	<b>kVA</b>	28,6	30,3	33	<b>33</b>	27	28	30,6	<b>30,6</b>	26	27,5	30	<b>30</b>	24	26	27,5	<b>27,5</b>	20,8	22	24	<b>24</b>
	<b>kW</b>	22,9	24,2	26,4	<b>26,4</b>	21,2	22,4	24,5	<b>24,5</b>	20,8	22	24	<b>24</b>	19,2	20,4	22	<b>22</b>	16,6	17,6	19,2	<b>19,2</b>
<b>ECP30 3M4 C</b>	<b>kVA</b>	36,3	39,6	39,6	<b>39,6</b>	34	37	36,6	<b>36,6</b>	33	36	36	<b>36</b>	29	32	32	<b>32</b>	26,4	28,8	28,8	<b>28,8</b>
	<b>kW</b>	29	31,7	31,7	<b>31,7</b>	26,8	29,3	29,3	<b>29,3</b>	26,4	28,8	28,8	<b>28,8</b>	23,2	25,6	25,6	<b>25,6</b>	21,1	23	23	<b>23</b>
<b>ECP30 1L4 C</b>	<b>kVA</b>	42,4	46,2	46,2	<b>46,2</b>	39	43	42,7	<b>42,7</b>	38,5	42	42	<b>42</b>	34	37	37,3	<b>37,3</b>	30,8	33,6	33,6	<b>33,6</b>
	<b>kW</b>	33,9	37	37	<b>37</b>	31,3	34,2	34,2	<b>34,2</b>	30,8	33,6	33,6	<b>33,6</b>	27	29,8	29,8	<b>29,8</b>	24,6	26,9	26,9	<b>26,9</b>
<b>ECP30 2L4 C</b>	<b>kVA</b>	48,4	52,8	52,8	<b>52,8</b>	45	49	48,8	<b>48,8</b>	44	48	48	<b>48</b>	39	43	42,7	<b>42,7</b>	35,2	38,4	38,4	<b>38,4</b>
	<b>kW</b>	38,7	42,2	42,2	<b>42,2</b>	35,8	39	39	<b>39</b>	35,2	38,4	38,4	<b>38,4</b>	31	34,2	34,2	<b>34,2</b>	28,2	30,7	30,7	<b>30,7</b>

## Reactance & Time constants- Class H / 400V

Unsaturated (ref. EN60034-4)			ECP30 1M4 C	ECP30 2M4 C	ECP30 3M4 C	ECP30 1L4 C	ECP30 2L4 C
<b>X<sub>d</sub></b>	Direct-axis synchronous reactance	%	229,7	226,3	217,4	208,1	197
<b>X'<sub>d</sub></b>	Direct-axis transient reactance	%	21,4	19,8	20,3	19,4	18,4
<b>X''<sub>d</sub></b>	Direct-axis subtransient reactance	%	12,2	11,2	11,6	11,1	10,5
<b>X<sub>q</sub></b>	Quadrature-axis synchronous reactance	%	99,7	93,1	93,7	89,7	84,9
<b>X'<sub>q</sub></b>	Quadrature-axis transient reactance	%	99,7	93,1	93,7	89,7	84,9
<b>X''<sub>q</sub></b>	Quadrature-axis subtransient reactance	%	27,9	25,6	25,1	24	22,7
<b>X<sub>2</sub></b>	Negative-sequence reactance	%	19,4	17,8	17,7	16,9	16
<b>X<sub>0</sub></b>	Zero sequence reactance	%	4,2	3,82	3,7	3,55	3,36
<b>Saturated</b>							
<b>X<sub>d</sub></b>	Direct-axis synchronous reactance	%	195,2	192,4	184,8	176,9	167,4
<b>X'<sub>d</sub></b>	Direct-axis transient reactance	%	18,2	16,8	17,3	16,5	15,6
<b>X''<sub>d</sub></b>	Direct-axis subtransient reactance	%	10,4	9,52	9,86	9,43	8,92
<b>X<sub>q</sub></b>	Quadrature-axis synchronous reactance	%	84,7	79,1	79,6	76,2	72,2
<b>X'<sub>q</sub></b>	Quadrature-axis transient reactance	%	84,7	79,1	79,6	76,2	72,2
<b>X''<sub>q</sub></b>	Quadrature-axis subtransient reactance	%	23,7	21,8	21,3	20,4	19,3
<b>X<sub>2</sub></b>	Negative-sequence reactance	%	16,5	15,1	15	14,4	13,6
<b>X<sub>0</sub></b>	Zero sequence reactance	%	4,2	3,82	3,7	3,55	3,36
<b>K<sub>cc</sub></b>	Short circuit ratio		0,51	0,52	0,54	0,57	0,6
<b>T'<sub>d</sub></b>	Transient time constant	sec	0,061	0,056	0,059	0,057	0,054
<b>T''<sub>d</sub></b>	Subtransient time constant	sec	0,017	0,016	0,015	0,015	0,014
<b>T'<sub>do</sub></b>	Open circuit time constant	sec	0,66	0,64	0,63	0,61	0,57
<b>T<sub>a</sub></b>	Armature time constant	sec	0,011	0,013	0,009	0,009	0,01

## Additional information - Class H / 400V

<b>I<sub>o</sub></b>	Excitation current at no load	A	0,6	0,6	0,6	0,6	0,6
<b>I<sub>c</sub></b>	Excitation current at full load	A	2,8	2,7	3,3	2,8	2,8
<b>Overload</b>							
Overload per 20 sec.					%	300	
Heat dissipation		W	2307	2727	3180	3567	3915
Telephone Harmonic Factor - THF		%	<2	<2	<2	<2	<2
Waveform Distors.(THD) full load LL/LN		%	2 / 1,9	2,1 / 2	1,9 / 1,8	2,2 / 2,2	2,3 / 2,2
Waveform Distors.(THD) no load LL/LN		%	2,9 / 2,8	3,1 / 3	2,7 / 2,5	3,3 / 3	3 / 2,9

## Reactance & Time constants- Class H / 480V

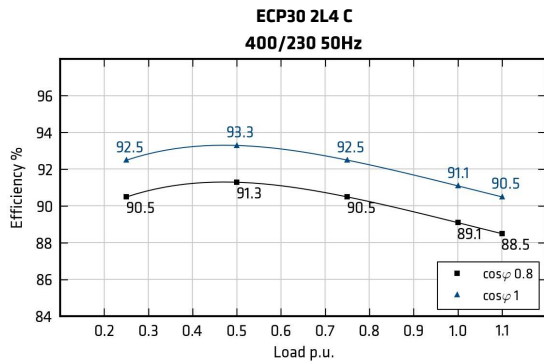
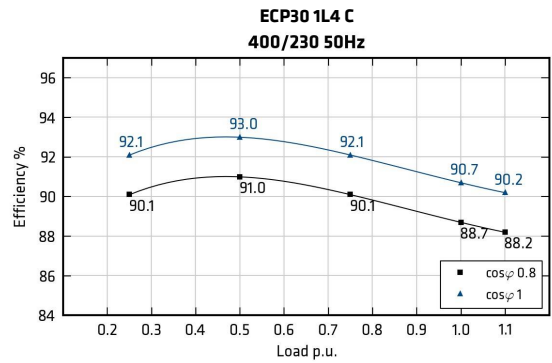
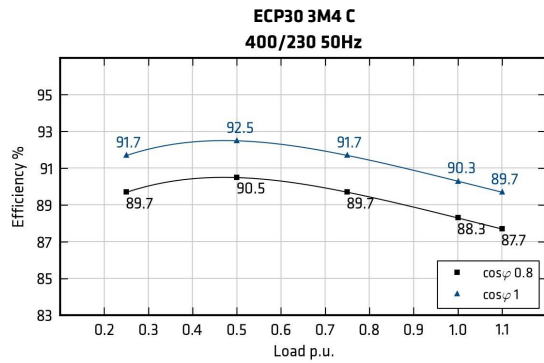
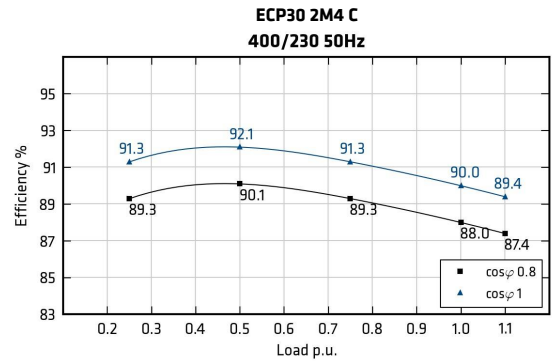
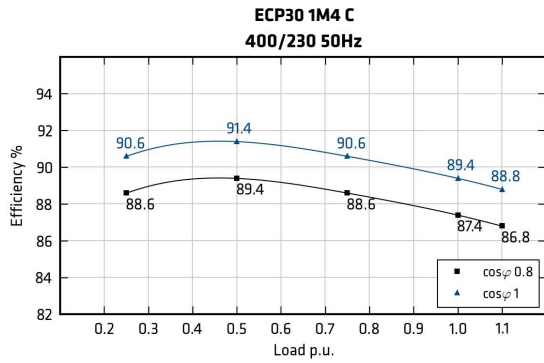
Unsaturated (ref. EN60034-4)			ECP30 1M4 C	ECP30 2M4 C	ECP30 3M4 C	ECP30 1L4 C	ECP30 2L4 C
<b>X<sub>d</sub></b>	Direct-axis synchronous reactance	%	229,7	226,3	217,4	208,1	197
<b>X'<sub>d</sub></b>	Direct-axis transient reactance	%	21,4	19,8	20,3	19,4	18,4
<b>X''<sub>d</sub></b>	Direct-axis subtransient reactance	%	12,2	11,2	11,6	11,1	10,5
<b>X<sub>q</sub></b>	Quadrature-axis synchronous reactance	%	99,7	93,1	93,7	89,7	84,9
<b>X'<sub>q</sub></b>	Quadrature-axis transient reactance	%	99,7	93,1	93,7	89,7	84,9
<b>X''<sub>q</sub></b>	Quadrature-axis subtransient reactance	%	27,9	25,6	25,1	24	22,7
<b>X<sub>2</sub></b>	Negative-sequence reactance	%	19,4	17,8	17,7	16,9	16
<b>X<sub>0</sub></b>	Zero sequence reactance	%	4,2	3,82	3,7	3,55	3,36
<b>Saturated</b>							
<b>X<sub>d</sub></b>	Direct-axis synchronous reactance	%	195,2	192,4	184,8	176,9	167,4
<b>X'<sub>d</sub></b>	Direct-axis transient reactance	%	18,2	16,8	17,3	16,5	15,6
<b>X''<sub>d</sub></b>	Direct-axis subtransient reactance	%	10,4	9,52	9,86	9,43	8,92
<b>X<sub>q</sub></b>	Quadrature-axis synchronous reactance	%	84,7	79,1	79,6	76,2	72,2
<b>X'<sub>q</sub></b>	Quadrature-axis transient reactance	%	84,7	79,1	79,6	76,2	72,2
<b>X''<sub>q</sub></b>	Quadrature-axis subtransient reactance	%	23,7	21,8	21,3	20,4	19,3
<b>X<sub>2</sub></b>	Negative-sequence reactance	%	16,5	15,1	15	14,4	13,6
<b>X<sub>0</sub></b>	Zero sequence reactance	%	4,2	3,82	3,7	3,55	3,36
<b>K<sub>cc</sub></b>	Short circuit ratio		0,51	0,52	0,54	0,57	0,6
<b>T'<sub>d</sub></b>	Transient time constant	sec	0,061	0,056	0,059	0,057	0,054
<b>T''<sub>d</sub></b>	Subtransient time constant	sec	0,017	0,016	0,015	0,015	0,014
<b>T'<sub>do</sub></b>	Open circuit time constant	sec	0,66	0,64	0,63	0,61	0,57
<b>T<sub>a</sub></b>	Armature time constant	sec	0,011	0,013	0,009	0,009	0,01

## Additional information - Class H / 480V

<b>I<sub>o</sub></b>	Excitation current at no load	A	0,6	0,6	0,6	0,6	0,6
<b>I<sub>c</sub></b>	Excitation current at full load	A	2,8	2,7	3,3	2,8	2,8
<b>Overload</b>							
Overload per 20 sec.					%	300	
Heat dissipation		W	2301	2816	3271	3651	3937
Telephone Interference Factor - TIF			<45	<45	<45	<45	<45
Waveform Distors.(THD) full load LL/LN		%	2 / 1,9	2,1 / 2	1,9 / 1,8	2,2 / 2,2	2,3 / 2,2
Waveform Distors.(THD) no load LL/LN		%	2,9 / 2,8	3,1 / 3	2,7 / 2,5	3,3 / 3	3 / 2,9

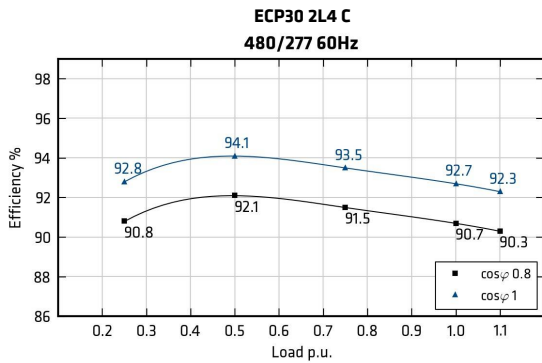
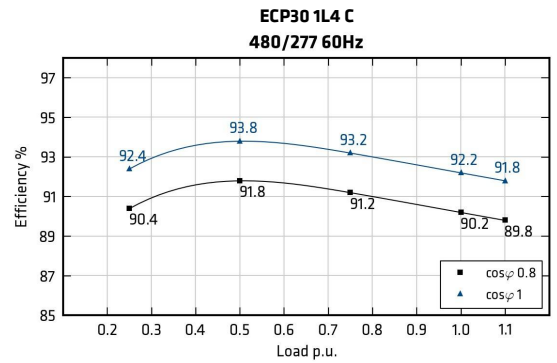
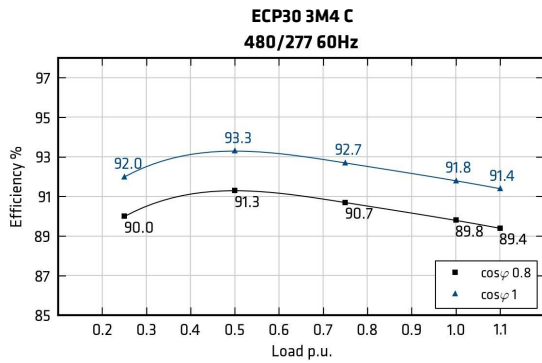
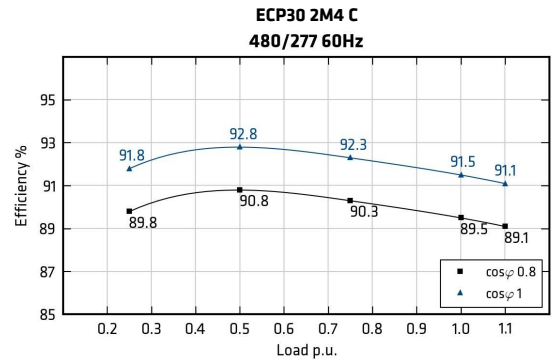
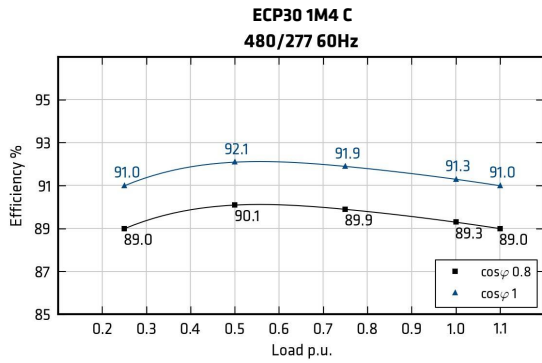
## Efficiencies @ 50Hz

Models		380V 50Hz					400V 50Hz					415V 50Hz					440V 50Hz				
		0.25	0.5	0.75	1	1.1	0.25	0.5	0.75	1	1.1	0.25	0.5	0.75	1	1.1	0.25	0.5	0.75	1	1.1
ECP30 1M4 C	%	88,4	89,3	88,7	87,7	87,2	88,6	89,4	88,6	87,4	86,8	88,8	89,4	88,9	87,7	87,0	89,3	89,5	89,0	87,9	87,5
ECP30 2M4 C	%	89,2	90,2	89,4	88,0	87,5	89,3	90,1	89,3	88,0	87,4	89,3	90,1	89,2	87,7	87,1	88,6	89,8	88,9	87,5	86,9
ECP30 3M4 C	%	89,6	90,6	89,8	88,3	87,8	89,7	90,5	89,7	88,3	87,7	89,7	90,5	89,8	88,6	88,1	89,0	90,2	89,3	87,8	87,2
ECP30 1L4 C	%	90,0	91,1	90,2	88,7	88,2	90,1	91,0	90,1	88,7	88,2	90,1	91,0	90,2	89,0	88,5	89,4	90,6	89,7	88,2	87,6
ECP30 2L4 C	%	90,4	91,4	90,6	89,1	88,6	90,5	91,3	90,5	89,1	88,5	90,5	91,3	90,6	89,4	88,9	89,8	91,0	90,1	88,6	88,0

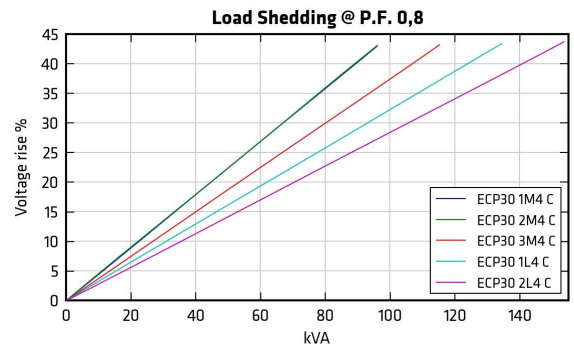
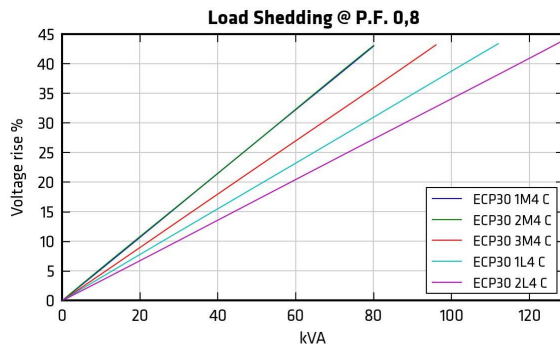
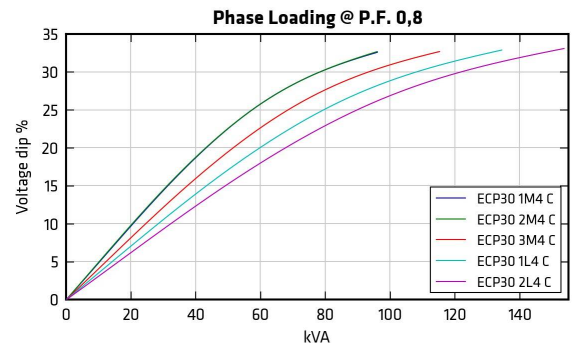
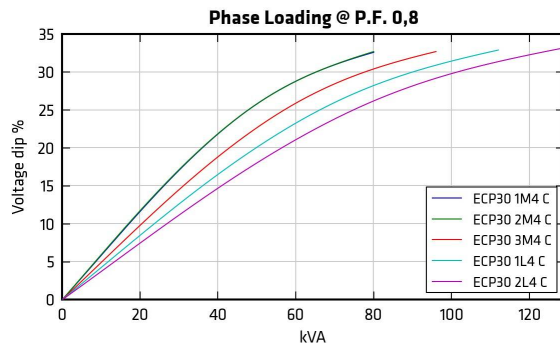
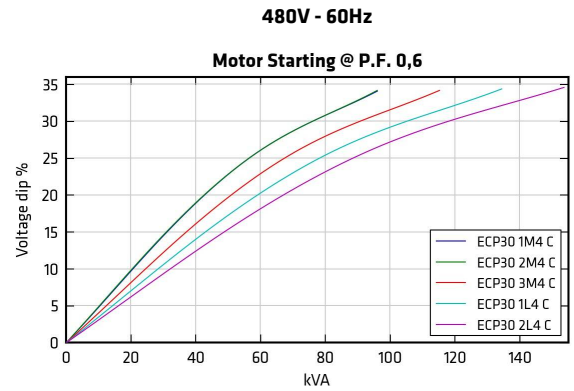
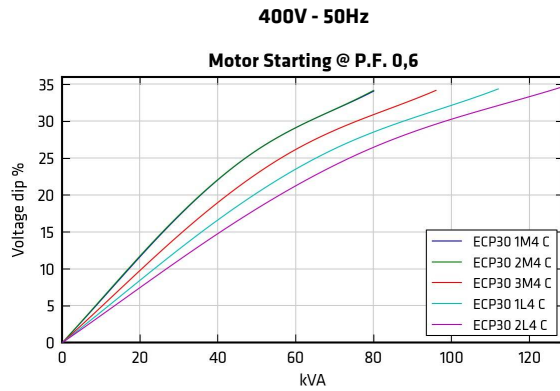


## Efficiencies @ 60Hz

Models		415V 60Hz					440V 60Hz					460V 60Hz					480V 60Hz				
		0.25	0.5	0.75	1	1.1	0.25	0.5	0.75	1	1.1	0.25	0.5	0.75	1	1.1	0.25	0.5	0.75	1	1.1
ECP30 1M4 C	%	89,4	90,2	90,1	89,4	89,0	89,7	90,3	89,8	89,1	88,7	89,1	90,0	90,0	89,4	89,1	89,0	90,1	89,9	89,3	89,0
ECP30 2M4 C	%	90,2	90,9	90,5	89,4	88,9	90,3	91,0	90,2	88,9	88,4	89,9	90,7	90,4	89,3	88,8	89,8	90,8	90,3	89,5	89,1
ECP30 3M4 C	%	90,5	91,4	90,9	89,7	89,2	90,8	91,5	90,6	89,2	88,7	90,1	91,2	90,8	89,6	89,1	90,0	91,3	90,7	89,8	89,4
ECP30 1L4 C	%	91,0	91,9	91,4	90,1	89,6	91,3	92,0	91,1	89,6	89,0	90,5	91,7	91,3	90,0	89,5	90,4	91,8	91,2	90,2	89,8
ECP30 2L4 C	%	91,3	92,2	91,7	90,6	90,1	91,6	92,3	91,4	90,0	89,5	90,9	92,0	91,6	90,5	90,8	92,1	91,5	90,7	90,3	



Transients voltage



In order to scale transient curves as a function of a power factor or voltage if not indicated, please proceed as follows:

Power Factor coefficient corrector (PFCC), to be used on power factor 0.6 curves:

$$PFCC = \sin(\text{ARCCos}(PF_{\text{new}})) / 0.8$$

Example. The PFCC at power factor 0.3 is 1.192 [  $PFCC = \sin(\text{ARCCos}(0.3)) / 0.8$  ]. This means that the voltage fall at a given power at pf 0.3 is equivalent to the one that can be read on the pf 0.6 curve if the load is considered 1.192 times bigger (19% higher value. ).

In this example, a 100 kVA load insertion at pf 0.3 is equivalent in voltage fall to a 119kVA load insertion at pf 0.6.

Voltage coefficient corrector (VCC):

$$VCC = (400/V_{\text{new}})^2 \text{ if } 50 \text{ Hz}; VCC = (480/V_{\text{new}})^2 \text{ if } 60 \text{ Hz}$$

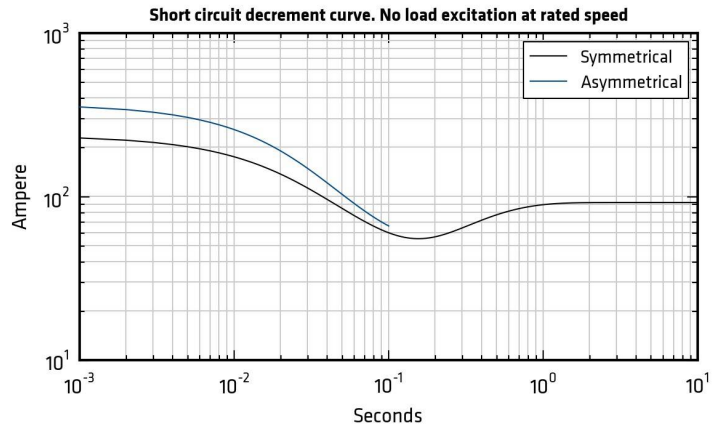
Example. VCC at 415V 60 Hz is 1.338 [  $VCC = (480/415)^2$  ]. This means that the voltage fall at a given power at 415V is equivalent to the one that can be read on the power factor 0.6 curve if the load is considered 1.338 times bigger (33% higher value. ).

In this example, a 100 kVA load insertion at 415V is equivalent in voltage fall to a 133kVA load insertion at 480V.

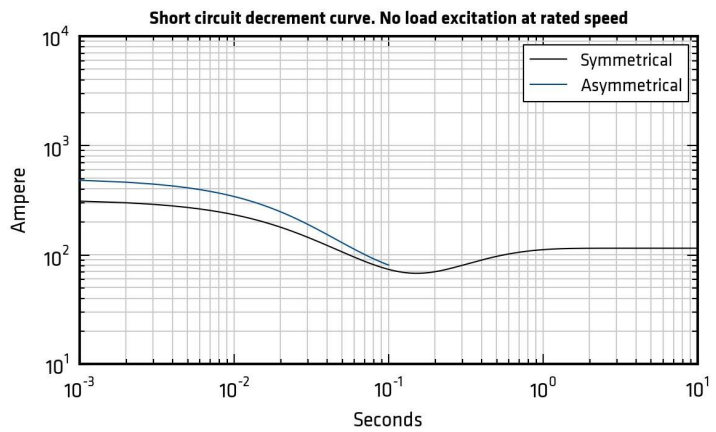


50Hz Short circuit decrement curves - No load excitation at rated speed

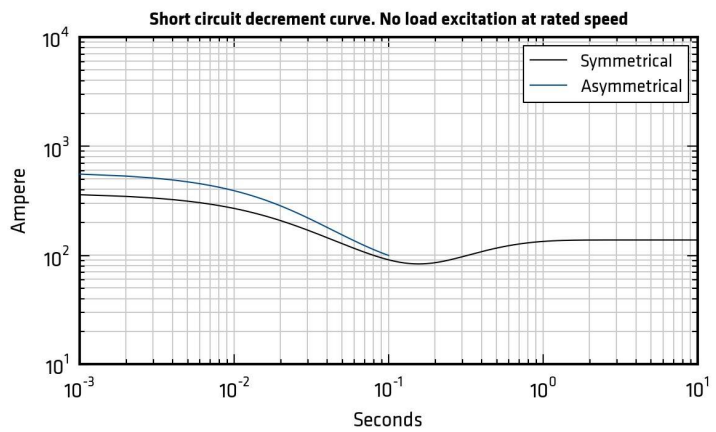
ECP30 1M4 C



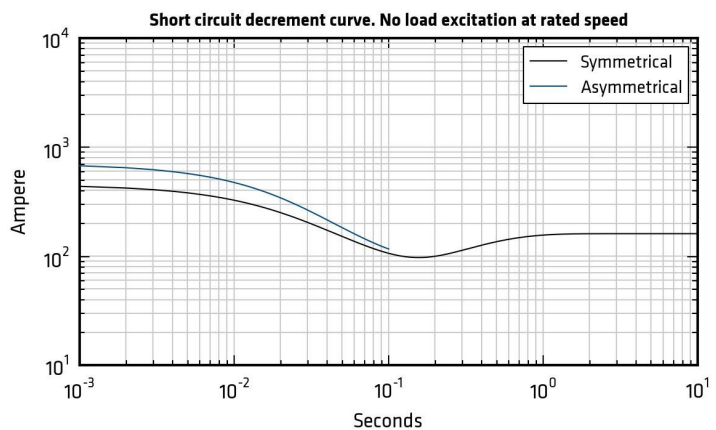
ECP30 2M4 C



ECP30 3M4 C



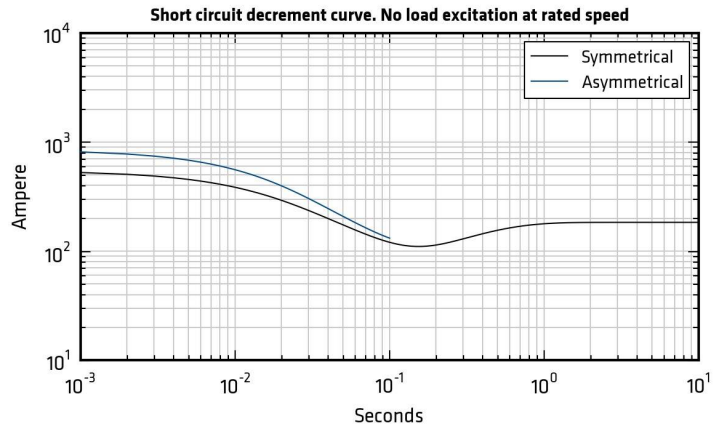
ECP30 1L4 C



\*Please refer to tables at page 6

50Hz Short circuit decrement curves - No load excitation at rated speed

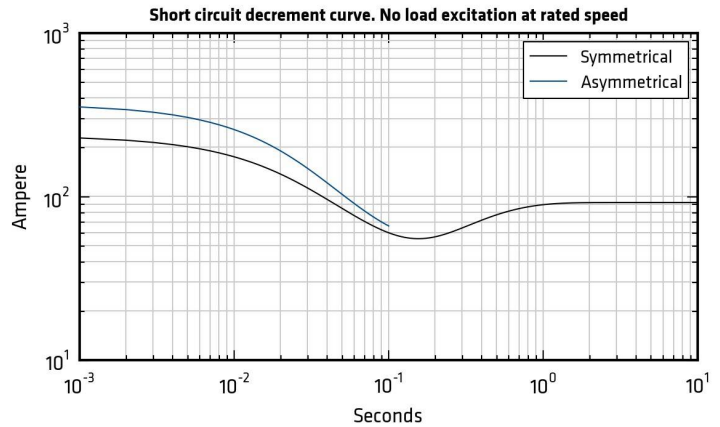
ECP30 2L4 C



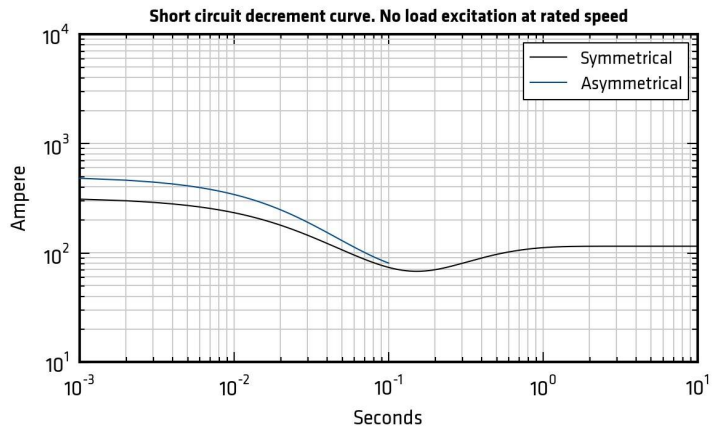
\*Please refer to tables at page 6

60Hz Short circuit decrement curves - No load excitation at rated speed

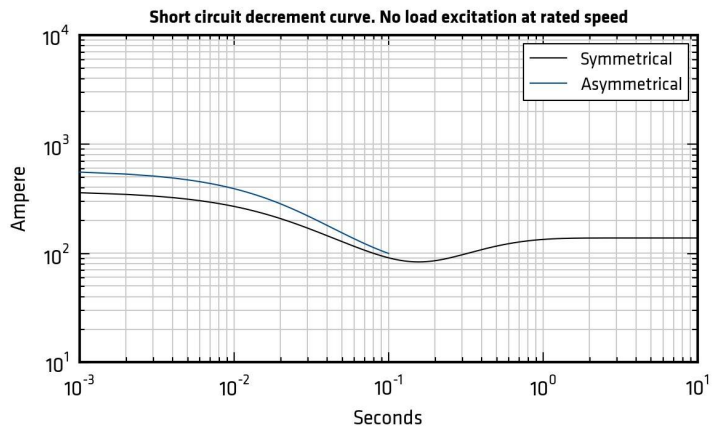
ECP30 1M4 C



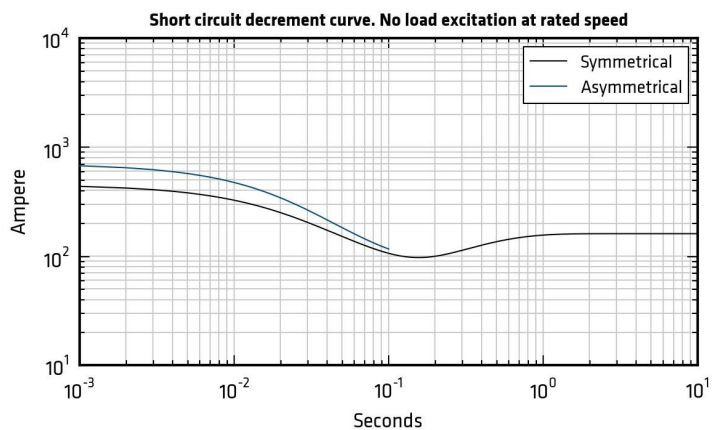
ECP30 2M4 C



ECP30 3M4 C



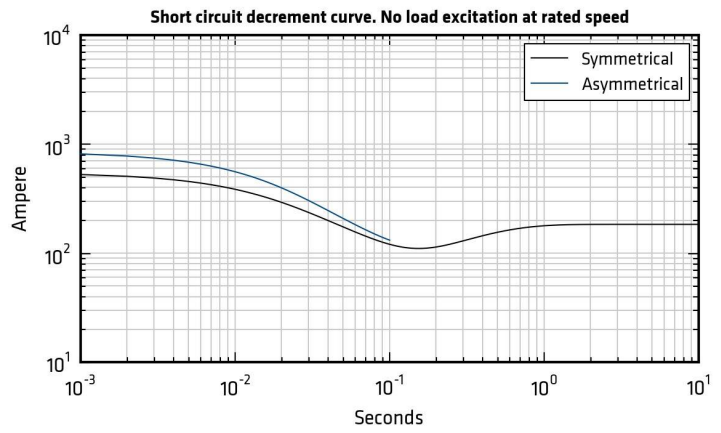
ECP30 1L4 C



\*Please refer to tables at page 6

60Hz Short circuit decrement curves - No load excitation at rated speed

ECP30 2L4 C

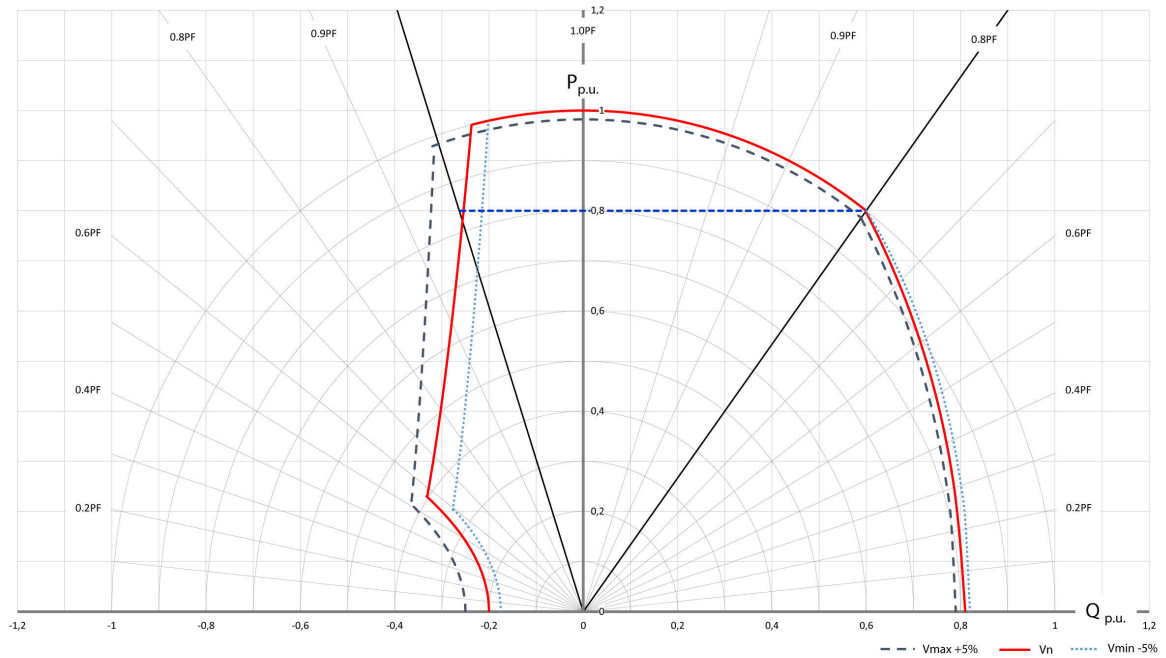


\*Please refer to tables at page 6

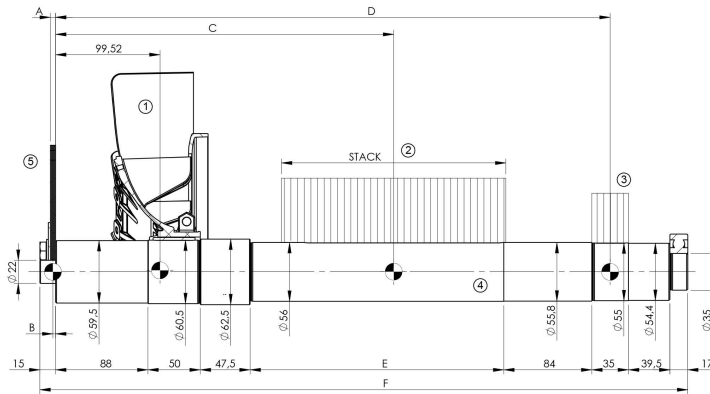
## Additional Characteristics

Data	ECP30 1M4 C		ECP30 2M4 C		ECP30 3M4 C		ECP30 1L4 C		ECP30 2L4 C		
	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	
Damper cage	Aluminium										
Stator Winding Resistance (20°C)	Ω	0,235		0,174		0,15		0,134		0,111	
Rotor Winding Resistance (20°C)	Ω	1,295		1,512		1,684		1,867		2,016	
Stator Exciter Resistance (20°C)	Ω	9,6		9,6		9,6		9,6		9,6	
Rotor Exciter Resistance (20°C)	Ω	0,384		0,384		0,384		0,384		0,384	
Weight of complete generator	kg	105,0		118,0		130,0		148,0		158,0	
Unbalanced magnetic pull	kN/mm	-		-		-		-		-	
Air flow	m <sup>3</sup> /min	13,5	16,2	13,5	16,2	13,5	16,2	13,5	16,2	13,5	16,2
Noise level at 1m/7m	dB(A)	72/59	78/62	72/59	78/62	72/59	78/62	72/59	78/62	72/59	78/62

## PQ Diagram



## MOMENTS OF INERTIA - SINGLE BEARING



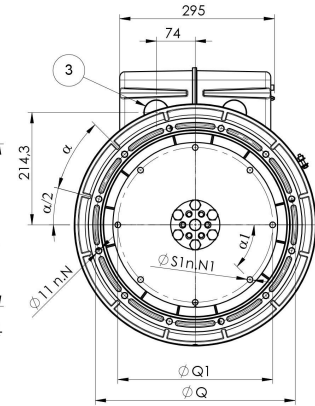
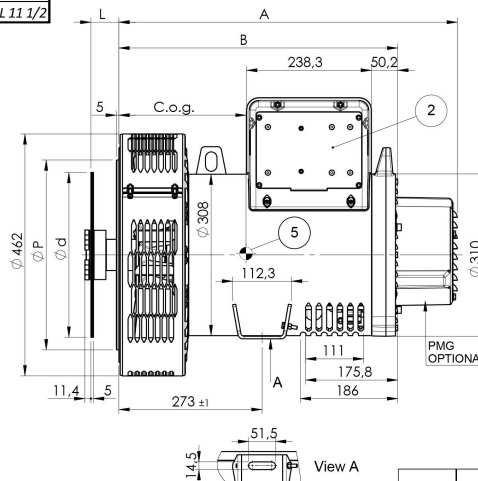
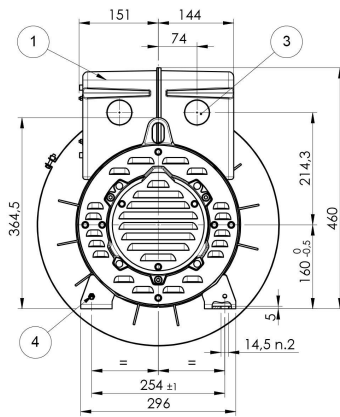
TYPE	DIMENSION			
	C [mm]	D [mm]	E [mm]	F [mm]
ECP30 1M / 4C	310,0			
ECP30 2M / 4C	295,0	469,0	182,0	558,0
ECP30 3M / 4C	280,0			
ECP30 1L / 4C	322,5			
ECP30 2L / 4C	310,0	529,0	242,0	618,0

POS. COMPONENT	1 FAN		2 MAIN ROTOR		3 EXCITER ROTOR		4 SHAFT *		TOTAL	
	WEIGHT [kg]	J [kgm <sup>2</sup> ]	WEIGHT [kg]	J [kgm <sup>2</sup> ]	WEIGHT [kg]	J [kgm <sup>2</sup> ]	WEIGHT [kg]	J [kgm <sup>2</sup> ]	WEIGHT [kg]	J [kgm <sup>2</sup> ]
ECP30 1M / 4C	0,93	0,0118	17,56	0,0702	4,34	0,0136	10,60	0,0044	33,43	0,1000
ECP30 2M / 4C			21,93	0,0878					37,80	0,1176
ECP30 3M / 4C			26,52	0,1063					42,39	0,1361
ECP30 1L / 4C			30,78	0,1263					47,85	0,1566
ECP30 2L / 4C			34,30	0,1374					51,37	0,1677

SAE N.	5   SHAFTS COUPLING FLEX PLATE			
	A [mm]	B [mm]	WEIGHT [kg]	J [kgm <sup>2</sup> ]
6 1/2	5,0	2,6	1,68	0,0084
7 1/2	5,0	2,6	2,04	0,0130
8	36,6	29,3	3,30	0,0196
10	28,6	23,7	3,87	0,0379
11 1/2	15,0	11,6	4,58	0,0593

\* Shaft mass and inertia also include rotor keys

- 1) REMOVABLE COVER FOR ACCESS TO MAIN TERMINALS
- 2) REMOVABLE PANEL FOR ACCESS TO AVR
- 3) PRE-CUT FOR CABLE ENTRY  $\phi=48$  mm
- 4) SCREW M6 FOR GROUNDING
- 5) CENTER OF GRAVITY (C.o.g.) IN CONF. SAE 3 FLYWHEEL 11 1/2



TIPO/TYPE	A [mm]	B [mm]	C.o.G. [mm]
ECP30 1M / 4C	645,7	531,8	282,8
ECP30 2M / 4C			275,0
ECP30 3M / 4C	705,7	591,8	265,8
ECP30 1L / 4C			303,7
ECP30 2L / 4C			295,3

SAE N.	FLANGIA/FLANGE BRIDE/FLANSCH				
	P	Q	S	N	$\alpha$
5	314,3	333,4	11	8	45°
4	362,0	381,0	11	12	30°
3	409,6	428,6	11	12	30°

SAE N.	GIUNTI A DISCHI / DISC COUPLING DISQUE DE MONOPALIER / SCHEIBENKUPPLUNG					
	d	L	Q1	S1	N1	$\alpha$ /
6 1/2	215,90	30,2	200,00	9	6	60°
7 1/2	241,30	30,2	222,25	9	8	45°
8	263,52	62,0	244,47	11	6	60°
10	314,32	53,8	295,27	11	8	45°
11 1/2	352,42	39,6	333,37	11	8	45°



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**Mecc Alte SpA (HQ)**

Via Roma  
20 - 36051 Creazzo  
Vicenza - ITALY  
T: +39 0444 396111  
F: +39 0444 396166  
E: info@meccalte.it  
aftersales@meccalte.it

---

**Mecc Alte Portable**

Via Roma  
20 - 36051 Creazzo  
Vicenza - ITALY  
T: +39 0444 396111  
F: +39 0444 396166  
E: info@meccalte.it  
aftersales@meccalte.it

---

**Mecc Alte Power Products srl**

Via Melaro  
Z - 36075 Montecchio  
Maggiore (VI) - ITALY  
T: +39 0444 1831295  
F: +39 0444 1831306  
E: info@meccalte.it  
aftersales@meccalte.it

---

**Zanardi Alternatori srl**

Via Dei Laghi  
48/B - 36077 Altavilla  
Vicenza - ITALY  
T: +39 0444 370799  
F: +39 0444 370330  
E: info@zanardialternatori.it

---

**United Kingdom**

Mecc Alte U.K. LTD  
6 Lands' End Way  
Oakham  
Rutland LE15 6RF  
T: +44 (0) 1572 771160  
F: +44 (0) 1572 771161  
E: info@meccalte.co.uk  
aftersales@meccalte.co.uk

---

**Spain**

Mecc Alte España S.A.  
C/ Rio Taibilla, 2  
Polig. Ind. Los Valeros  
03178 Benijofar (Alicante)  
T: +34 (0) 96 6702152  
F: +34 (0) 96 6700103  
E: info@meccalte.es  
aftersales@meccalte.es

---

**China**

Mecc Alte Alternator Haimen LTD  
755 Nanghai East Rd  
Jiangsu HEDZ 226100 PRC  
T: +86 (0) 513 82325758  
F: +86 (0) 513 82325768  
E: info@meccalte.cn  
aftersales@meccalte.cn

---

**India**

Mecc Alte India PVT LTD  
Plot NO: 1, Sanaswadi  
Talegaon  
Dhamdhare Road Taluka:  
Shirur, District:  
Pune - 412208  
Maharashtra, India  
T: +91 2137 619600  
F: +91 2137 619699  
E: info@meccalte.in  
aftersales@meccalte.in

---

**U.S.A. and Canada**

Mecc Alte Inc.  
1229 Adams Drive  
McHenry, IL, 60051  
T: +1 815 344 0530  
F: +1 815 344 0535  
E: info@meccalte.us  
aftersales@meccalte.us

---

**Germany**

Mecc Alte Generatoren GmbH  
Ensener Weg 21  
D-51149 Köln  
T: +49 (0) 2203 503810  
F: +49 (0) 2203 503796  
E: info@meccalte.de  
aftersales@meccalte.de

---

**Australia**

Mecc Alte Alternators PTY LTD  
10 Duncan Road, PO Box 1046  
Dry Creek, 5094, South  
Australia  
T: +61 (0) 8 8349 8422  
F: +61 (0) 8 8349 8455  
E: info@meccalte.com.au  
aftersales@meccalte.com.au

---

**France**

Mecc Alte International S.A.  
Z.E.La Gagnerie  
16330 ST.Amant de Boixe  
T: +33 (0) 545 397562  
F: +33 (0) 545 398820  
E: info@meccalte.fr  
aftersales@meccalte.fr

---

**Far East**

Mecc Alte (F.E.) PTE LTD  
19 Kian Teck Drive  
Singapore 628836  
T: +65 62 657122  
F: +65 62 653991  
E: info@meccalte.com.sg  
aftersales@meccalte.com.sg



[www.meccalte.com](http://www.meccalte.com)