



ALTERNATOR MA6014C

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issue 001 date 29/06/2015

Electrical Characteristics										
Frequency	Hz	50				60				
Voltage (parallel star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	1100	1100	1100	1000	1200	1260	1320	1320	
	kW	880	880	880	800	910	1008	1056	1056	
Rated power class F	kVA	1000	1000	1000	910	1090	1145	1200	1200	
	kW	800	800	800	728	872	916	960	960	
Regulation with	DER1	±0.5% with any power factor and speed variations between -5% +30%								
Insulation class		H								
Execution		Brushless								
Stator winding		12 ends								
Rotor		with damping cage								
Efficiencies class H	4/4	%	95.9	95.8	95.6	95.4	95.6	96.1	96.3	96
(see graph. for details)	3/4	%	96.3	96	96.1	95.9	95.8	96.1	96.3	96.1
	2/4	%	94.9	94.8	94.9	94.5	94.9	95	95.2	95.1
	1/4	%	92	92	91.8	91.3	93	93	93	93
Reactances (f. l.cl. F)	Xd	%	387.8	350	325.2	263.2	425.3	397.4	381.1	350
	Xd'	%	21.7	19.6	18.2	14.7	23.8	22.3	21.34	19.6
	Xd''	%	11.2	10.1	9.4	7.6	12.3	11.5	11	10.1
	Xq	%	164	148	137.5	111.3	179.8	168.1	161.1	148
	Xq'	%	164	148	137.5	111.3	179.8	168.1	161.1	148
	Xq''	%	21.7	19.6	18.2	14.7	23.8	22.3	21.3	19.6
	X ₂	%	16.4	14.8	13.7	11.1	18	16.8	16.11	14.8
	X ₀	%	3.9	3.5	3.3	2.6	4.3	4.0	3.81	3.5
Short Circuit Ratio	Kcc		0.30	0.35	0.40	0.50	0.21	0.25	0.30	0.35
Time Constants	Td'	sec.	0.245							
	Td''	sec.	0.0176							
	Tdo'	sec.	8.10							
	Tα	sec.	0.0235							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0.4	0.5	0.6	0.8	0.3	0.4	0.5	0.5
Excitation at full load	Amp.		2.5	2.8	2.9	3.1	2.3	2.4	2.5	2.8
Overload (long-term)	%	1 hour in a 6 hours period 110% rated load								
Overload per 20 sec.	%	300								
Stator Winding Resistance (20°C)	Ω	0.0078								
Rotor Winding Resistance (20°C)	Ω	2.500								
Exciter Resistance (20 °C)	Ω	Rotor : 0,130				Stator : 10,63				
Heat dissipation at f.l.cl.H	W	37623	38580	40502	38574	41883	40907	40573	44000	
Telephone Interference		THF < 2%				TIF < 40				
Radio interference		EN61000-6-3, EN61000-6-1. For others standards apply to factory								
Waveform Distors.(THD) at f. load	LL/LN %	1,5 / 1,7								
Waveform Distors.(THD) at no load	LL/LN %	2,1 / 2,1								
Mechanical characteristics										
Protection		IP 23 (other protection on request)								
DE bearing		6324								
NDE bearing		6322								
Weight of wound stator assembly	kg	861								
Weight of wound rotor assembly	kg	642								
Weight of complete generator	kg	2395								
Maximun overspeed	rpm	2250								
Unbalanced magnetic pull at f.l.cl.F	kN/mm	5								
Cooling air requirement	m³/min	90				108				
Inertia Constant (H)	sec.	0.247				0.297				
Noise level at 1m/7m	dB(A)	95 / 84				99 / 89				

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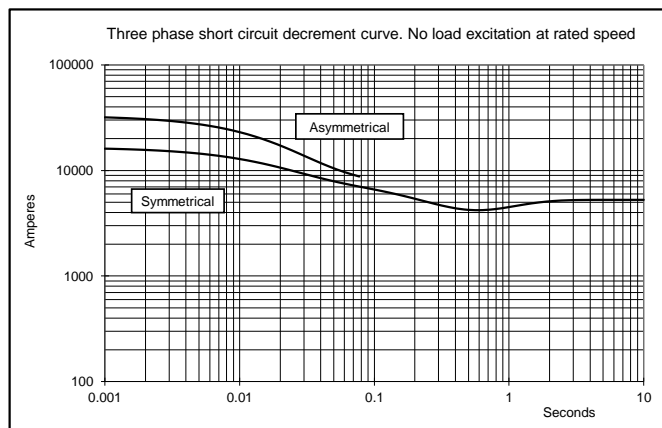
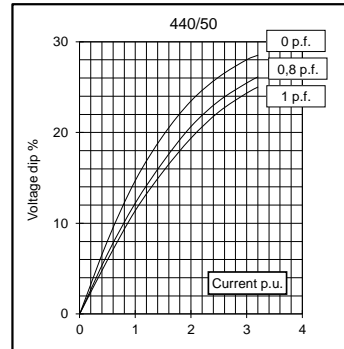
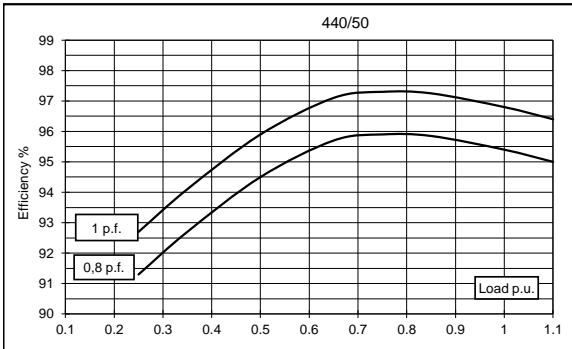
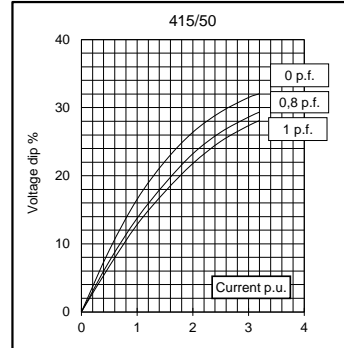
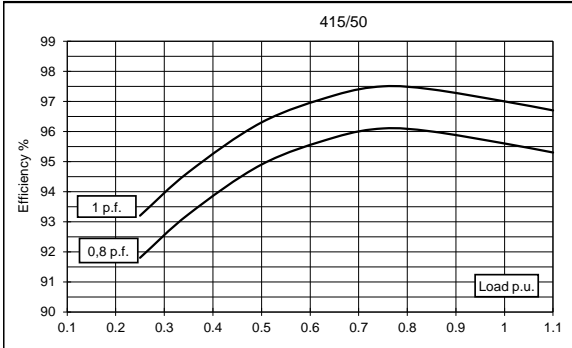
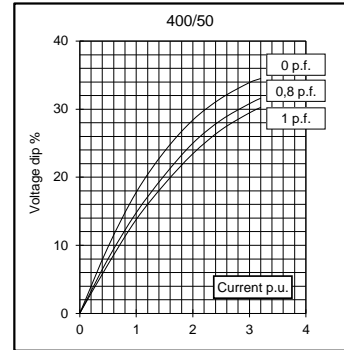
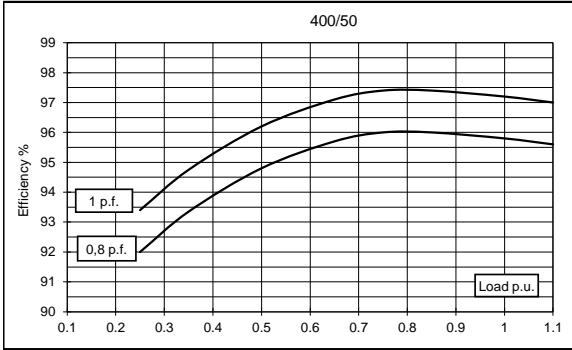
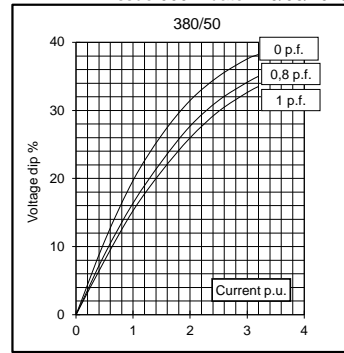
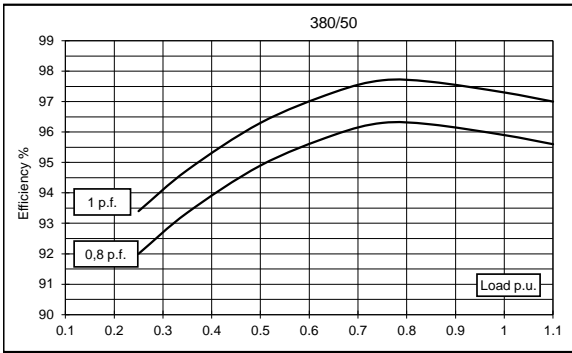
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50 Hz



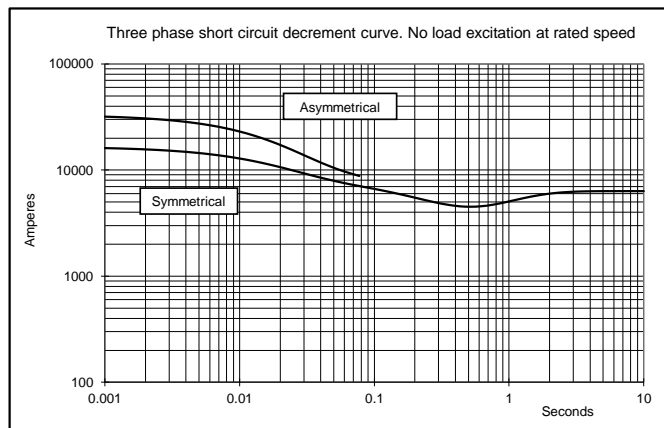
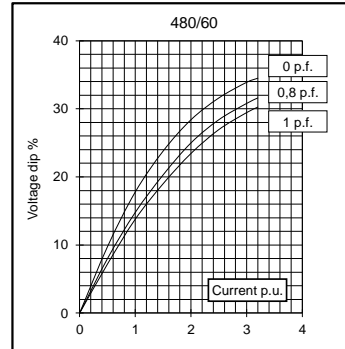
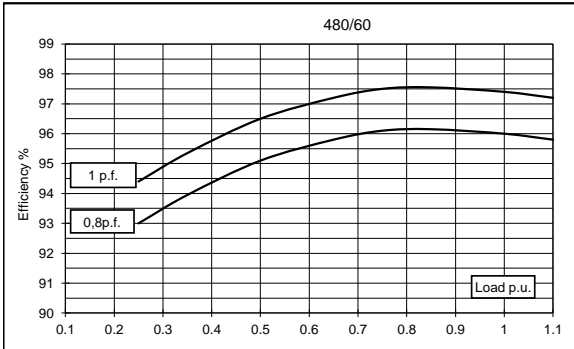
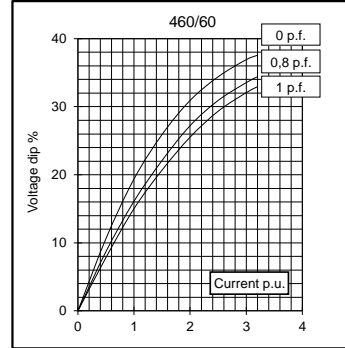
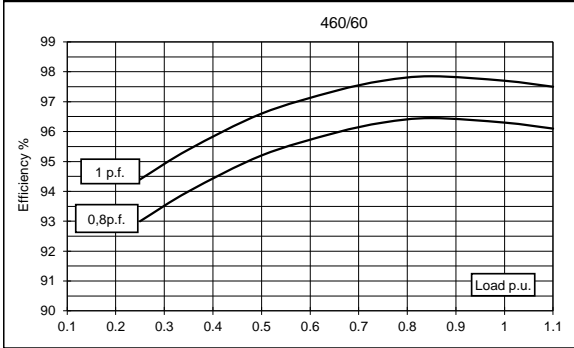
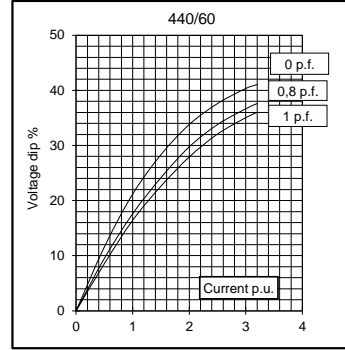
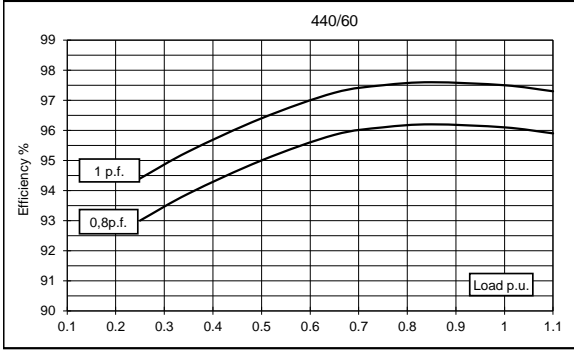
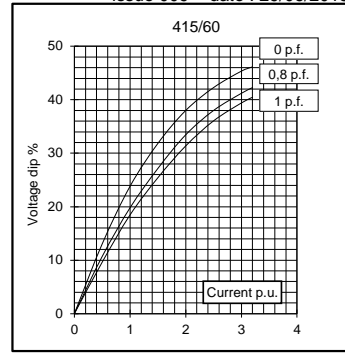
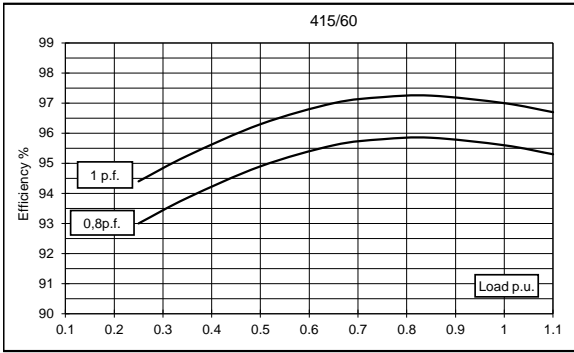
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60 Hz



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