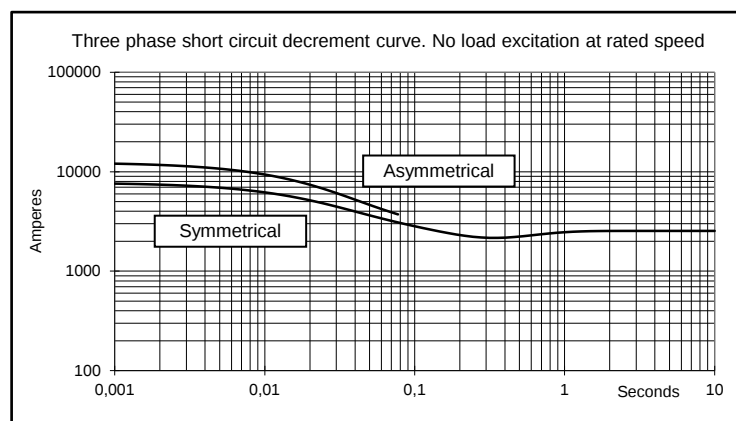
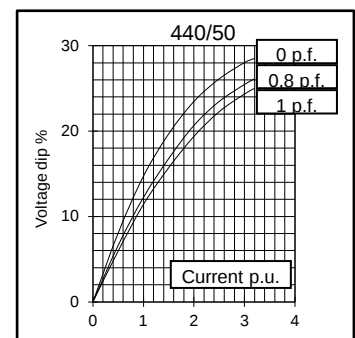
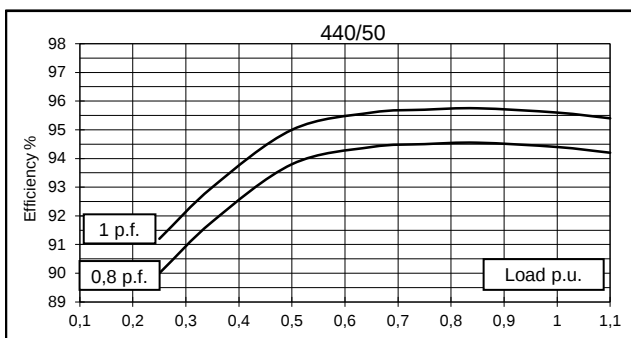
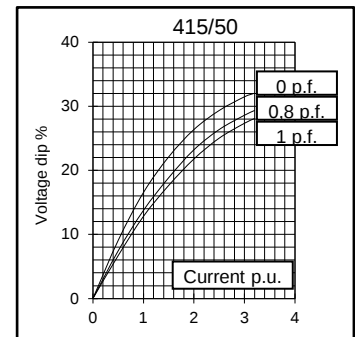
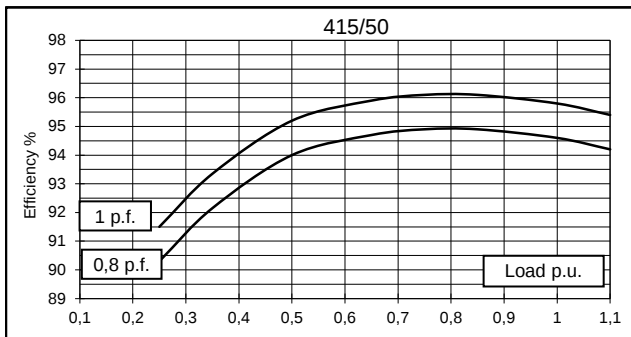
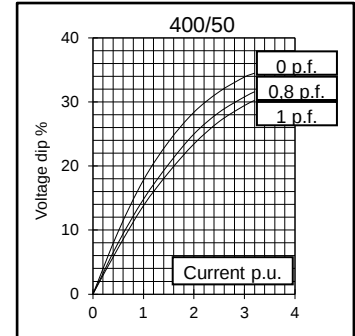
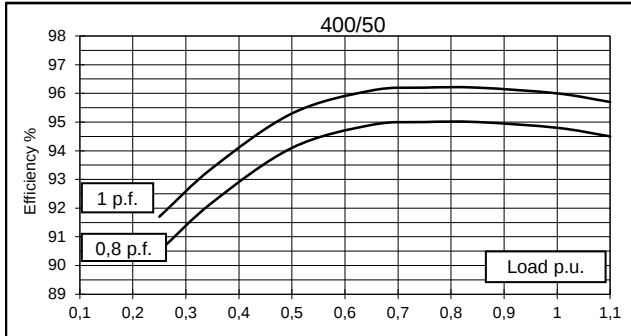
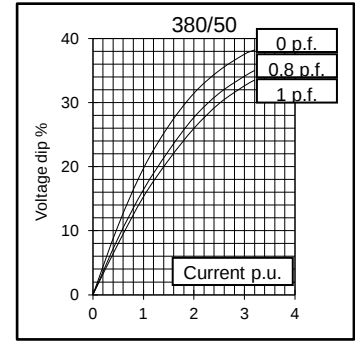
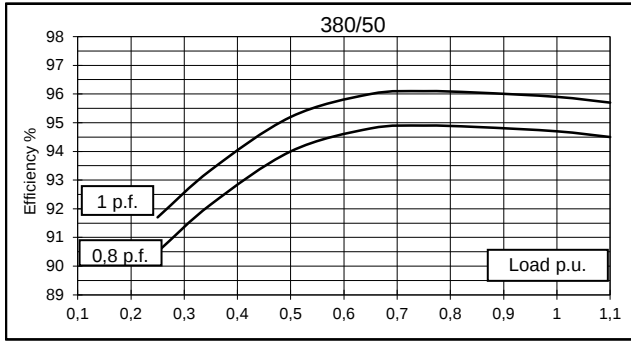


Electrical Characteristics										
Frequency		Hz	50				60			
Voltage (parallel star)		V	380	400	415	440	415	440	460	480
Rated power class H		kVA	550	550	540	500	570	630	660	660
		kW	440	440	432	400	456	504	528	528
Rated power class F		kVA	500	500	490	454	515	570	600	600
		kW	400	400	392	363	412	456	480	480
Regulation with		DER1	±1% 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	%	94,7	94,8	94,6	94,4	95,3	95,6	95,7	95,8
(see graph. for details)	3/4	%	94,9	95	94,9	94,5	95,5	95,7	95,8	96
	2/4	%	94	94,1	94	93,8	94,7	94,8	94,9	95,1
	1/4	%	90,5	90,5	90,3	90	91	91,1	91,1	91,3
Reactances (f. l.cl. F)	Xd	%	333	238	161	9,1	450	382	333	238
	Xd'	%	20,6	19,4	18,2	17,1	22,7	21,8	20,6	19,4
	Xd''	%	11,5	10,2	9,6	9,2	13,2	12,7	11,5	10,2
	Xq	%	128	112	107	101	149	132	128	112
	Xq'	%	128	112	107	101	149	132	128	112
	Xq''	%	25,2	24,1	22,2	21,5	27,4	26,6	25,2	24,1
	X ₂	%	13,5	12,6	11,4	10,6	15,5	14,2	13,5	12,6
	X ₀	%	3,1	2,8	2,6	2,5	3,4	3,2	3,1	2,8
Short Circuit Ratio	Kcc		0,30	0,42	0,62	1,10	0,22	0,26	0,30	0,42
Time Constants	Td'	sec.	0,14							
	Td''	sec.	0,021							
	Tdo'	sec.	2,90							
	Tα	sec.	0,04							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load		Amp.	0,5	0,7	1,1	1,3	0,4	0,5	0,6	0,7
Excitation at full load		Amp.	3,2	3,3	3,6	3,8	2,9	3	3,1	3,2
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load							
Overload per 20 sec.		%	300							
Stator Winding Resistance (20°C)		Ω	0,010							
Rotor Winding Resistance (20°C)		Ω	6,025							
Exciter Resistance (20 °C)		Ω	Rotor : 0,317				Stator : 8,85			
Heat dissipation at f.l.cl.H		W	24625	24135	24660	23729	22489	23197	23724	23148
Telephone Interference			THF < 2%				TIF < 40			
Radio interference			EN61000-6-3, EN61000-6-2. For others standards apply to factory							
Waveform Distors.(THD) at f. load	LL/LN	%	2,3 / 2,4							
Waveform Distors.(THD) at no load	LL/LN	%	2,5 / 2,5							
Mechanical characteristics										
Protection			IP 23 (other protection on request)							
DE bearing			6322							
NDE bearing			6318.2RS							
Weight of wound stator assembly	kg		477							
Weight of wound rotor assembly	kg		297,5							
Weight of complete generator	kg		1324							
Maximun overspeed	rpm		2250							
Unbalanced magnetic pull at f.l.cl.F	kN/mm		6,1							
Cooling air requirement	m³/min		54				64,8			
Inertia Constant (H)	sec.		0,170				0,204			
Noise level at 1m/7m	dB(A)		94 / 82				98 / 88			

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

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50 Hz



60 Hz

