



MarelliMotori
Inspired solutions



View product on website

GENERATORE SINCRONO TRIFASE
THREE - PHASE SYNCHRONOUS
GENERATOR

MXB 180 MC4

Project: _____

Reference: _____

CLASSE DI SOVRATEMPERATURA - TEMPERATURE RISE CLASS	H		
CLASSE DI ISOLAMENTO - INSULATION CLASS	H		
PASSO DI AVVOLGIMENTO - WINDING PITCH	2/3		
FORMA COSTRUTTIVA - MOUNTING	B2		
TEMPERATURA AMBIENTE (°C) - AMBIENT TEMPERATURE (°C)	40		
ALTITUDINE (m s.l.m) - ALTITUDE (m a.s.l.)	1000		
SISTEMA DI RAFFREDDAMENTO - COOLING SYSTEM / PROTEZIONE - PROTECTION DEGREE	IC01 / IP23		
FATTORE DI POTENZA - POWER FACTOR	0.80		
NUMERO DI POLI - NUMBER OF POLES	4		
VELOCITA' NOMINALE (r.p.m.) - RATED SPEED (r.p.m.)	1500		
SOVRAVELOCITA' (r.p.m.) - OVERSPEED (r.p.m.)	2250		
NUMERO DI TERMINALI - NUMBER OF TERMINALS	12		
PESO (kg) - WEIGHT (kg)	Approx. 193		
MOMENTO D'INERZIA (J) (kg*m ²) - INERTIA (J) (kg*m ²)	Approx. 0.37		
TEMPERATURA ACQUA RAFFREDDAMENTO (°C) - COOLING WATER TEMPERATURE (°C)			
PORTATA D'ACQUA (m ³ /h) - WATER FLOW RATE (m ³ /h)			
CADUTA DI PRESSIONE (kPa) - PRESSURE DROP (kPa)			
AUMENTO TEMPERATURA ACQUA (°C) - WATER TEMPERATURE INCREASE (°C)			
TA DI CENTRO STELLA - NEUTRAL POINT CURRENT TRANSFORMER			
CUSCINETTI - BEARINGS			
FREQUENZA - FREQUENCY	Hz	50	
TENSIONE - VOLTAGE	V	400	
CORRENTE NOMINALE - RATED CURRENT	A	65.0	
POTENZA - RATING	kVA	45	
RENDIMENTO - EFFICIENCY - (%)	4/4	92.7	
P.F.= 1.0	3/4	93.3	
	2/4	93.2	
RENDIMENTO - EFFICIENCY - (%)	4/4	90.3	
P.F.= 0.8	3/4	90.9	
	2/4	90.7	
Rapporto di corto circuito - short circuit ratio	SCR	0.57	
reattanza - reactance (%)	sincrona diretta - synchronous direct axis	X _{d uns}	250
	sincrona in quadratura - synchr. quadrature axis	X _{q uns}	139
	transitoria diretta - transient direct axis	X' _{d sat}	22.6
	transitoria in quadratura - transient quadrature axis	X' _{q uns}	139
	subtransitoria diretta - subtransient direct axis	X'' _{d sat}	9.8
	subtransitoria in quad. - subtransient quadr. axis	X'' _{q sat}	12.1
	di sequenza negativa - negative sequence	X _{2 sat}	10.9
	di sequenza zero - zero sequence	X _{0 sat}	2.1
costanti di tempo - time constants (s)	a vuoto - open circuit	T' _{do}	0.570
	transitoria - transient	T' _d	0.050
	subtransitoria - subtransient	T'' _d	0.010
	unidirezionale - armature	T _a	0.010
Coppia di corto circuito bifase - Phase to Phase short circuit torque	kN*m	4.4	
Coppia di corto circuito trifase - Three phase short circuit torque	kN*m	2.9	



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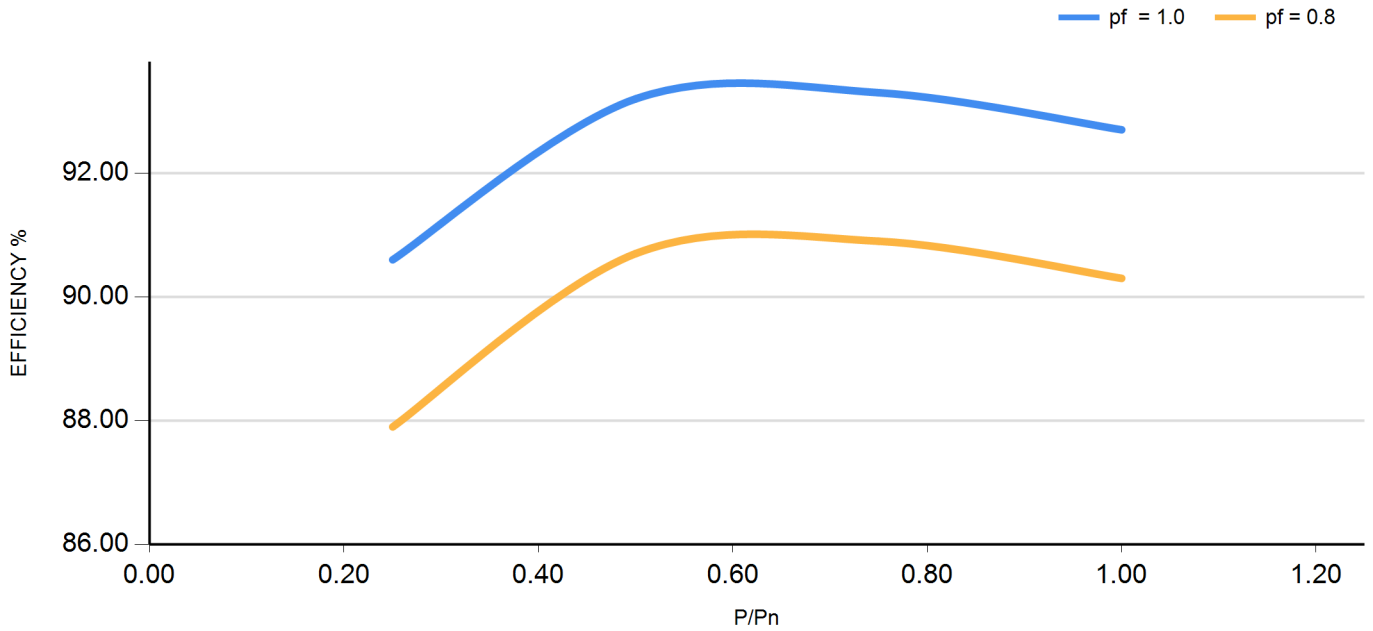
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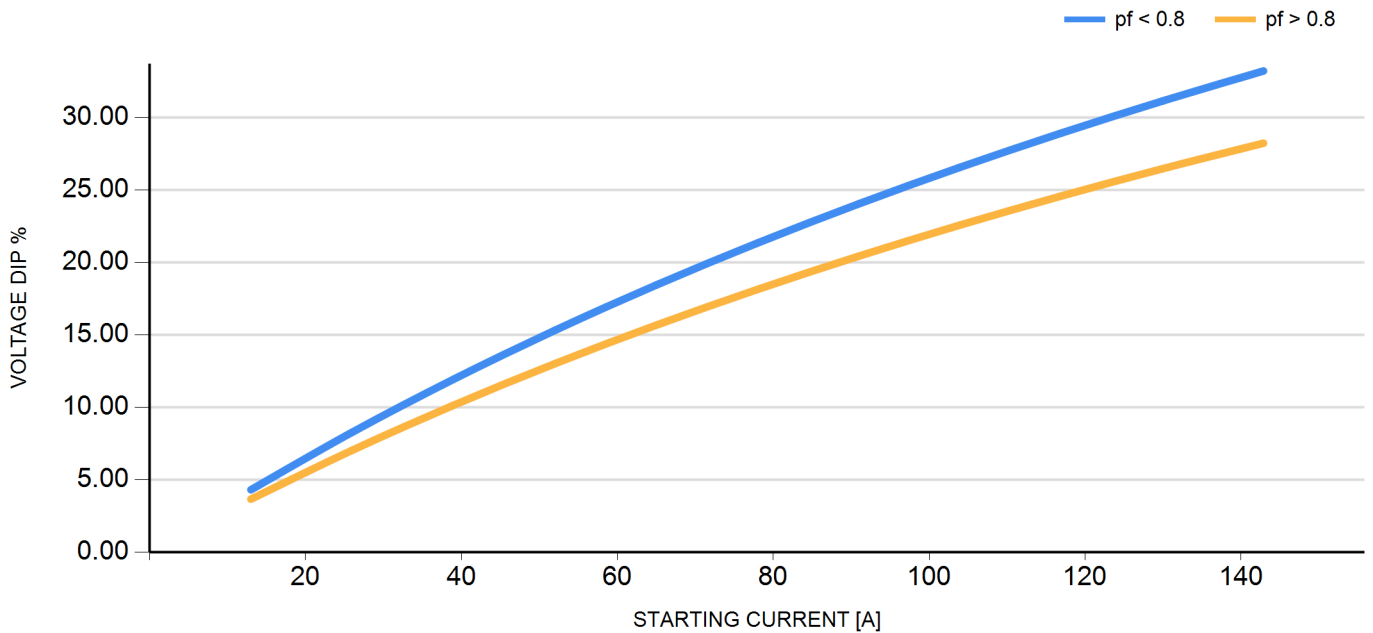
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CURVA DI RENDIMENTO - EFFICIENCY CURVE



CADUTA DI TENSIONE - VOLTAGE DIP





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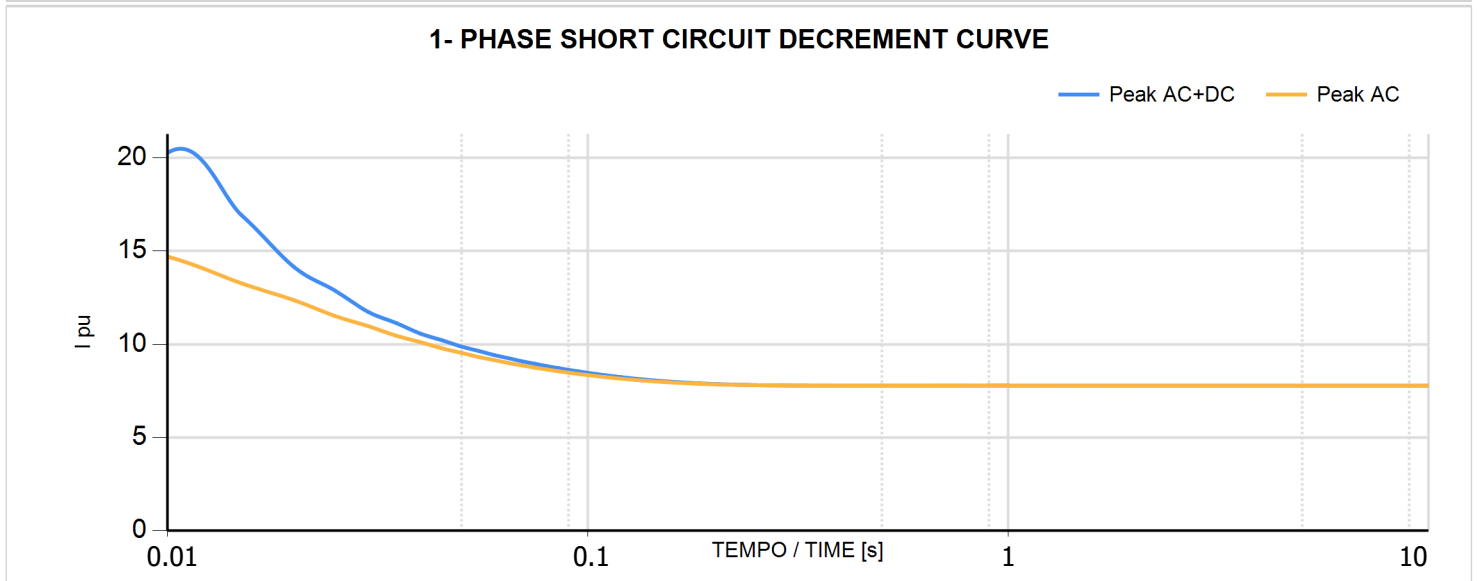
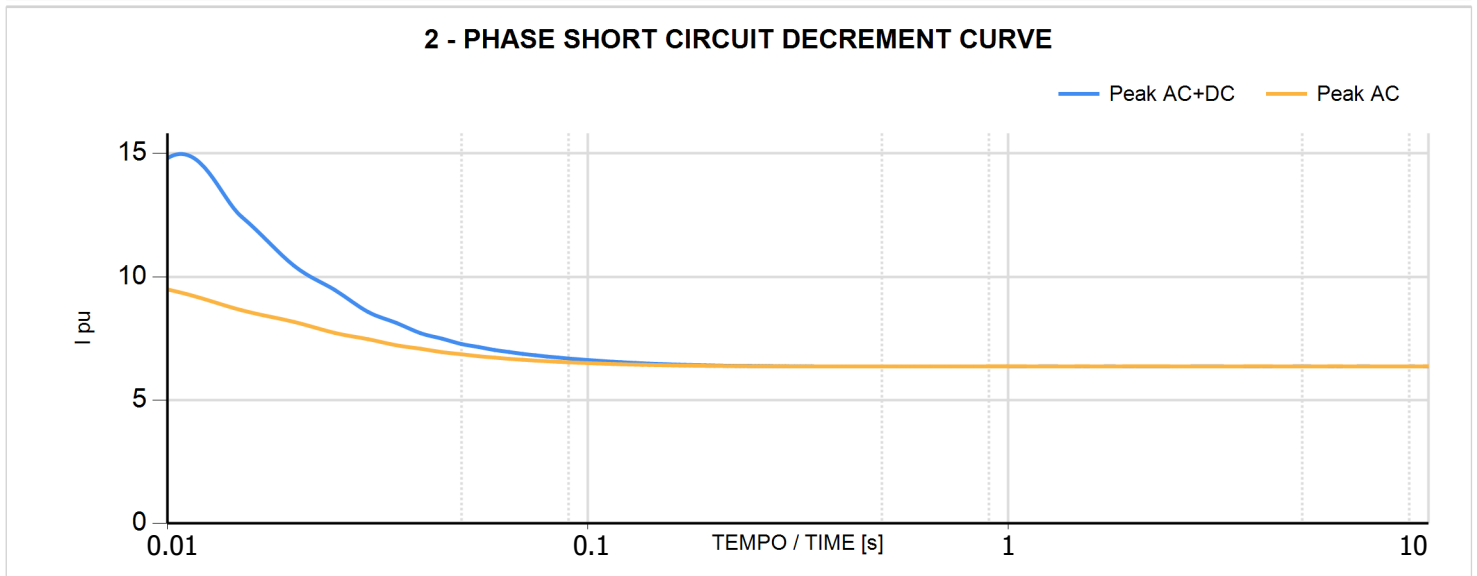
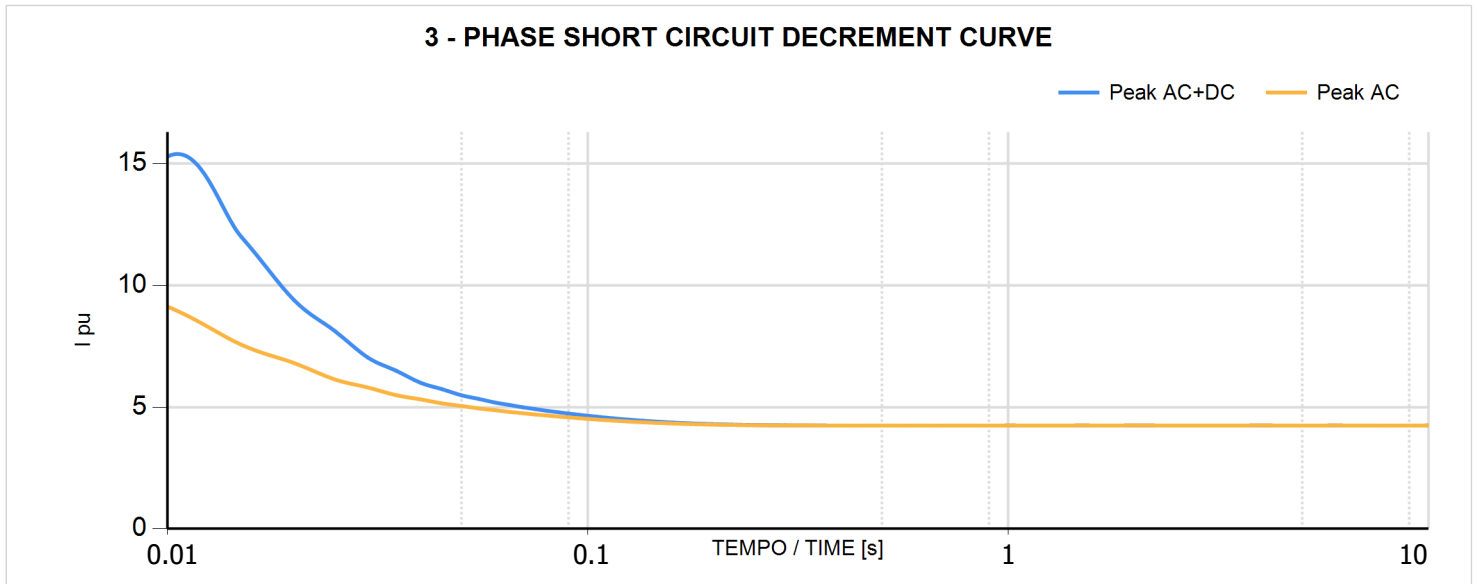
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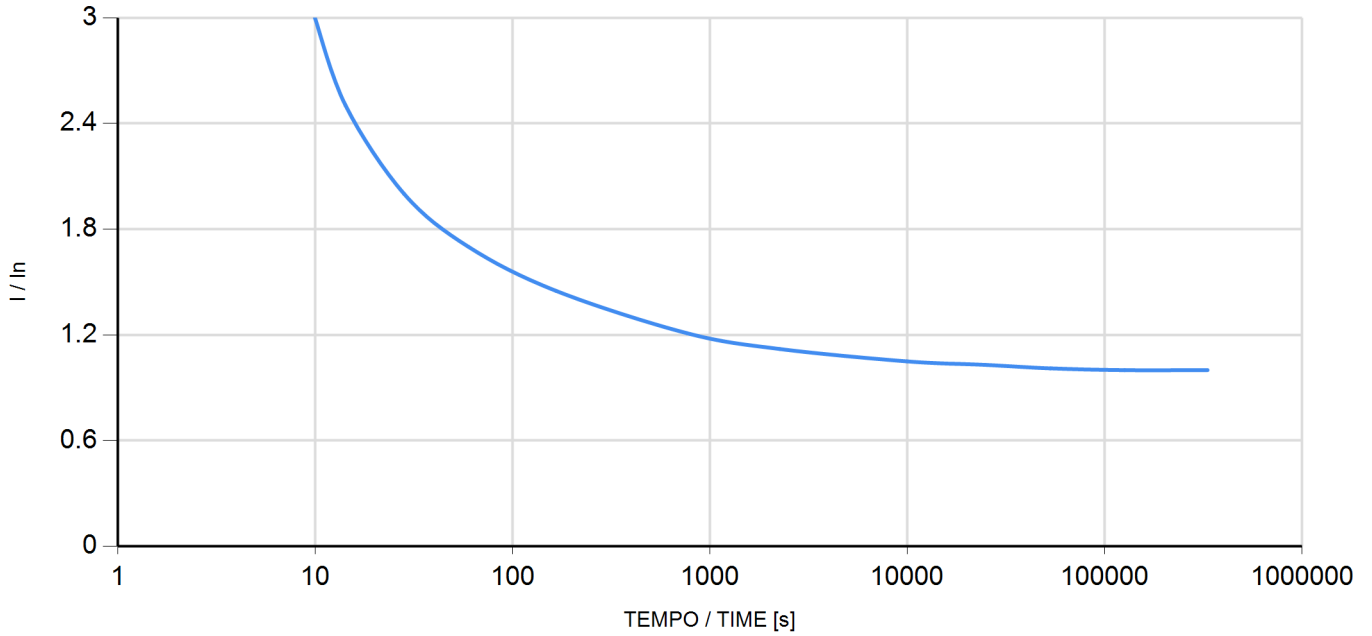
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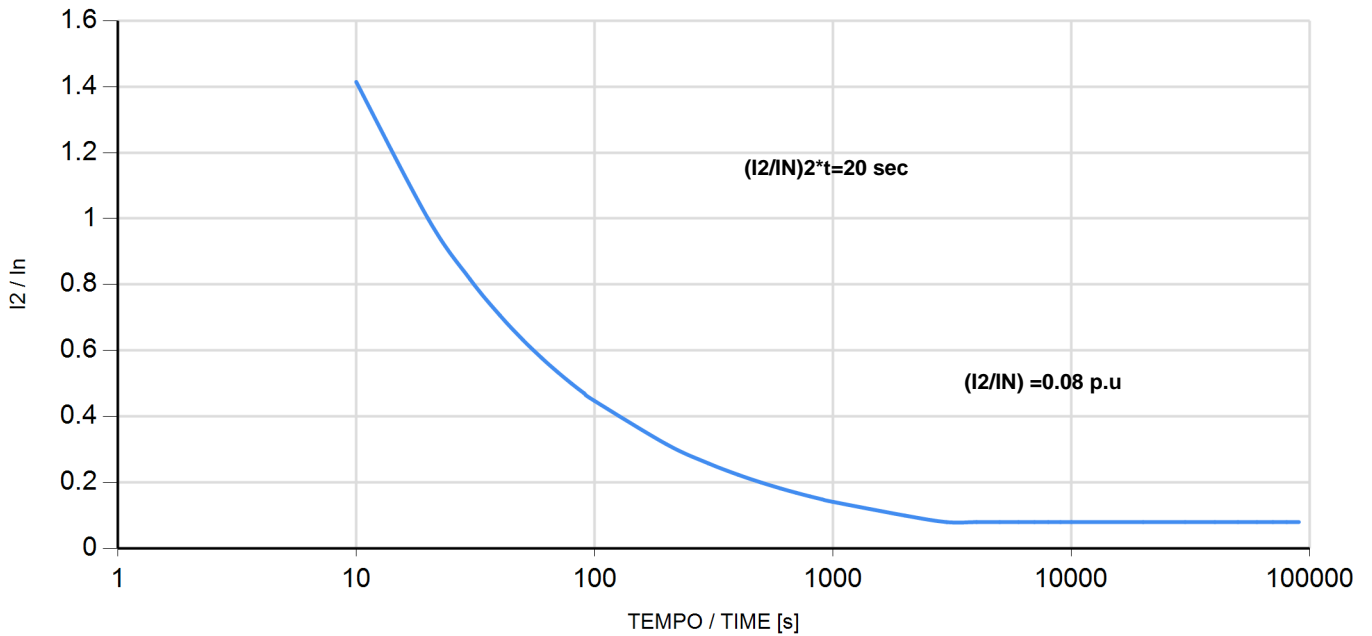
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CURVA DI LIMITE TERMICO - THERMAL DAMAGE CURVE



CORRENTE SEQUENZA INVERSA - NEGATIVE SEQUENCE CURRENT





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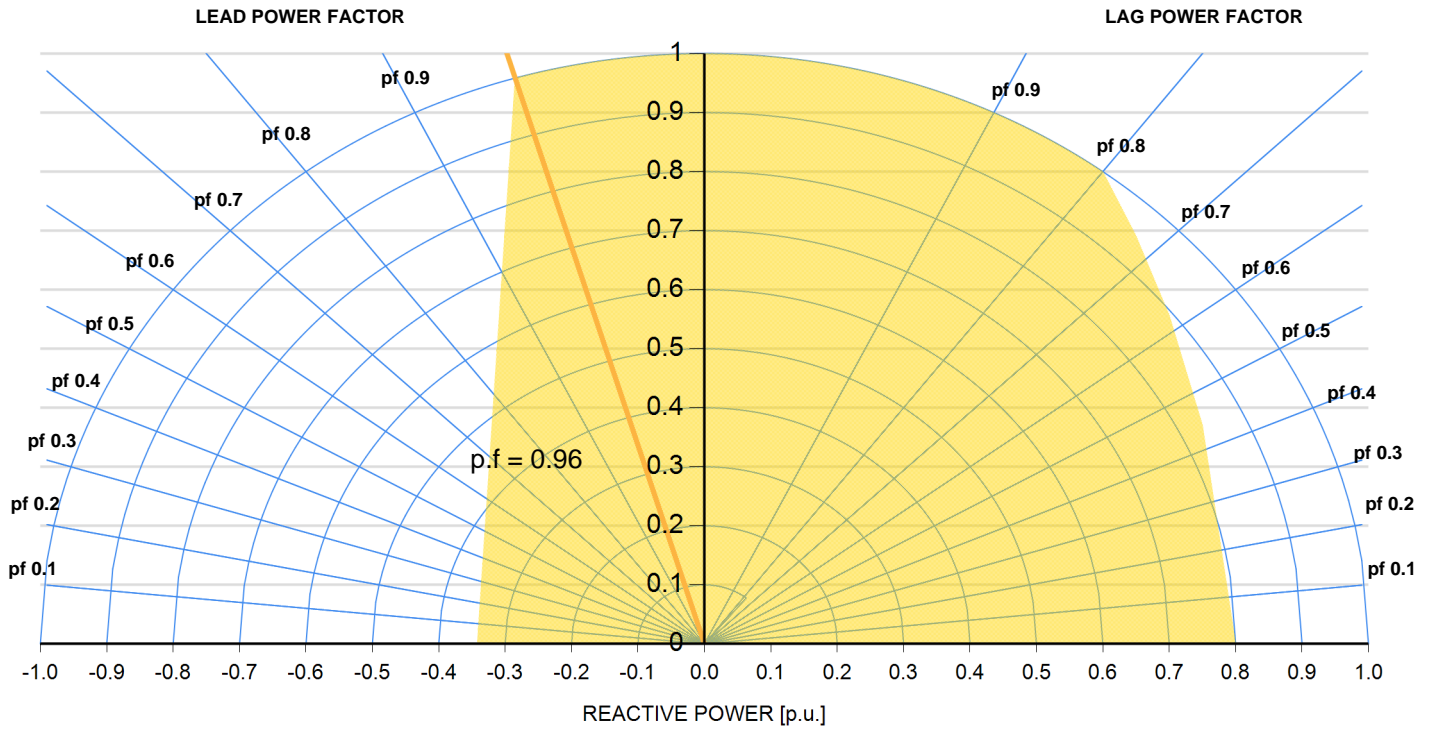
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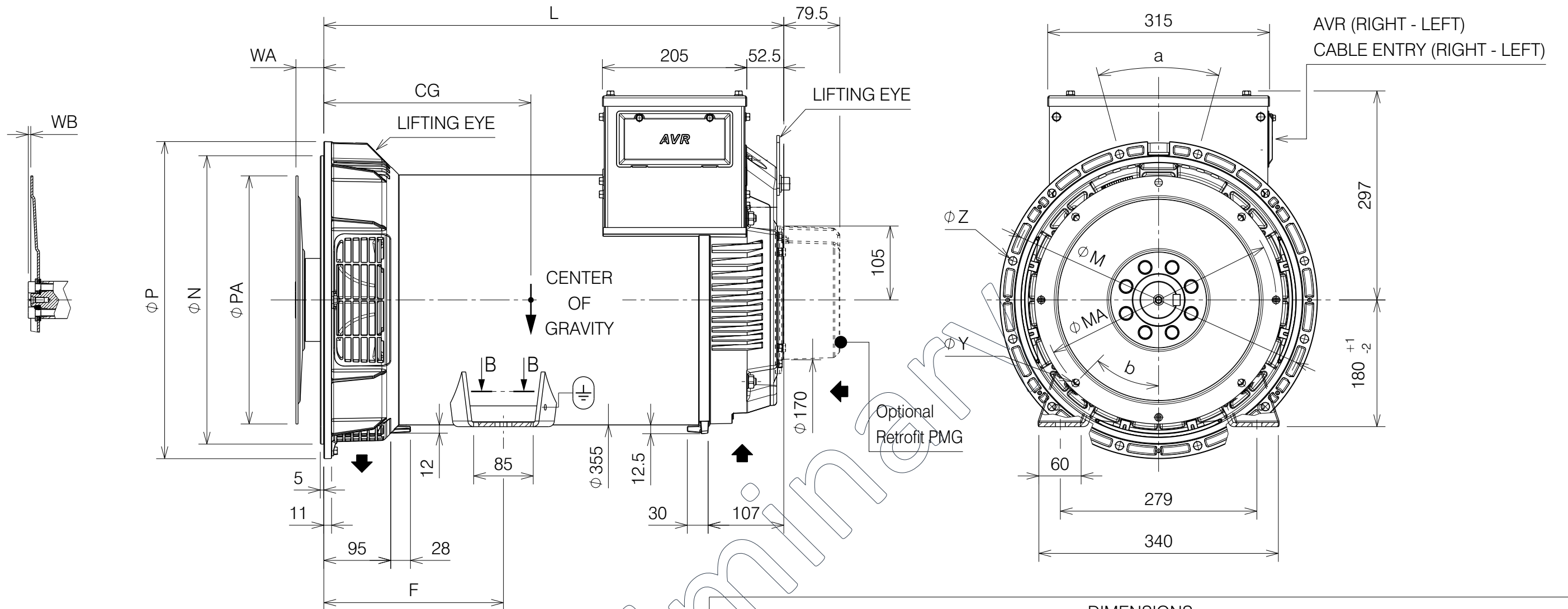
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CURVA DI CAPABILITY - CAPABILITY CURVE





SUPPORT BEARINGS	PROTECTION DEGREE	TYPE OF CONSTRUCTION IM	DIMENSIONS
ROLLING	IP23	B2	mm

TYPE	DIMENSIONS			
	L	F	CG SAE4-SAE5	CG SAE2-SAE3
MXB 180 XA 4	426	205	201	206
MXB 180 SA 4	496		223	228
MXB 180 SB 4			233	238
MXB 180 SC 4			245	250
MXB 180 MA 4	546	255	250	254
MXB 180 MC 4			260	264
MXB 180 LA 4	651		289	294
MXB 180 LB 4			314	319

CONNECTINGS				
COUPLING	FLANGE			
SAE J620	SAE J 617			
	5(*)	4	3	2
6 1/2	X			
7 1/2	X	X		
8	X	X	X	X
10		X	X	X
11 1/2			O	X

MOST COMMON O

(*) Not available for frame size MA4, MC4, LA4 and LB4

DIMENSIONS														
FLANGE							COUPLING							
SAE J617	N	P	M	Z		a	SAE J620	PA	MA	Y		b	WA	WB
				No	DIA					No	DIA			
5	314.32	355.6	333.38	8	11	45°	6 1/2	215.90	200.02	6	9	60°	30.2	13
4	361.95	403.4	381.00	12	11	30°	7 1/2	241.30	222.25	8	9	45°	30.2	13
3	409.58	450.8	428.62	12	11	30°	8	263.52	244.48	6	11	60°	62.0	/
2	447.68	489.0	466.72	12	11	30°	10	314.32	295.28	8	11	45°	53.8	/
							11 1/2	352.42	333.38	8	11	45°	39.6	/

G	ADDED CG DATA FOR SAE4 - SAE5	D.Pegoraro	I.Graizzaro	F.Savegnago	16/10/2017
F	GENERAL UPDATE	D.Pegoraro	I.Graizzaro	F.Savegnago	26/05/2017
E	UPDATED 'WA' DIMENSION FOR SAE 10	M.Rozi	L.Mahalingam	F.Savegnago	11/05/2017
REV	DESCRIPTION	PREP'D	CHK'D	APPR'D	DATE
ECO:	HEAT TREATMENT:	MAT:		IND. ENG. CHK'D:	
JOB:	SURFACE TREATMENT:	RAW MAT.CODE:		S.Fanton	
MarelliMotori Inspired solutions		DIMENSIONS WITHOUT TOLERANCES PRECISION DEGREE: (TN F 3661)		16/10/2017	
A3		DIMENSION: mm		WEIGHT (kg):	
SCALE: 1:6		n/a		ATEX APPR'D:	

OVERALL DIMENSIONS MXB 180
SYNCHRONOUS GENERATOR

M18AD003B

G SHEET: 1
Rev OF: 1

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