

 MarelliMotori Powering the future	TECHNICAL DATASHEET THREE-PHASE SYNCHRONOUS GENERATOR		
	Our Reference -		Date 30/07/2020
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GENERATORE TIPO - GENERATOR TYPE		MJB 315 MA4
CLASSE DI SOVRATEMPERATURA - TEMPERATURE RISE CLASS		H
CLASSE DI ISOLAMENTO - INSULATION CLASS		H
FORMA COSTRUTTIVA - MOUNTING		None
TEMPERATURA AMBIENTE - AMBIENT TEMPERATURE	°C	0
ALTITUDINE - ALTITUDE	m	0
PROTEZIONE - PROTECTION DEGREE	IP	IP23
SISTEMA DI RAFFREDDAMENTO - COOLING SYSTEM	IC	IC01
FATTORE DI POTENZA - POWER FACTOR		0.80
NUMERO DI POLI - NUMBER OF POLES		4
VELOCITA' NOMINALE - RATED SPEED	rpm	1500
SOVRAVELOCITA' - OVERSPEED	rpm	2250
NUMERO DI TERMINALI - NUMBER OF TERMINALS		12
PASSO DI AVVOLGIMENTO - WINDING PITCH		2/3 - Random Wound
RESISTENZA STATORICA @20°C - STATOR RESISTANCE @20°C	mΩ	9.44
PESO - WEIGHT	kg	Approx. 1060
MOMENTO D'INERZIA - INERTIA (J)	kgm ²	Approx. 4.8
TEMPERATURA ACQUA RAFFREDDAMENTO - COOLING WATER TEMPERATURE	°C	not applicable
PORTATA D'ACQUA - WATER FLOW RATE	m ³ /h	not applicable
CADUTA DI PRESSIONE - PRESSURE DROP	kPa	not applicable
AUMENTO TEMPERATURA ACQUA - WATER TEMPERATURE INCREASE	°C	not applicable
TA DI CENTRO STELLA - NEUTRAL POINT CURRENT TRANSFORMER		-
CUSCINETTI - BEARINGS		ANTI-FRICTION
FREQUENZA - FREQUENCY	Hz	50
TENSIONE - VOLTAGE	V	400
CORRENTE NOMINALE - RATED CURRENT	A	591.8
POTENZA - RATING	kVA	410

PERCENTUALE DI CARICO - PARTIAL LOAD DATA		%	100	75	50	25
RENDIMENTO - EFFICIENCY	P.F. = 1	%	95.0	95.3	95.5	94.3
	P.F. = 0.80	%	93.7	94.1	94.3	93.1

Rapporto di corto circuito - short circuit ratio		SCR	0.26	
			UNS	SAT
REATTANZA - REACTANCE (%)	sincrona diretta - synchronous direct axis	Xd	388	363
	sincrona in quadratura - synchr. quadrature axis	Xq	164	153
	transitoria diretta - transient direct axis	X'd	34.1	27.3
	transitoria in quadratura - transient quadrature axis	X'q	164	153
	subtransitoria diretta - subtransient direct axis	X''d	17.4	16.3
	subtransitoria in quad. - subtransient quadr. axis	X''q	19.2	17.9
	di sequenza negativa - negative sequence	X2	20.7	17.1
	di sequenza zero - zero sequence	Xo	8.6	8.1
COSTANTI DI TEMPO - TIME CONSTANTS (s)	a vuoto - open circuit	T'do	1.586	
	transitoria - transient	T'd	0.149	
	subtransitoria - subtransient	T''d	0.014	
	unidirezionale - armature	Ta = Tdc	0.017	
COPPIA DI CORTO CIRCUITO DI BIFASE - PHASE TO PHASE SHORT CIRCUIT TORQUE		kNm	24.0	
COPPIA DI CORTO CIRCUITO DI TRIFASE - THREE PHASE SHORT CIRCUIT TORQUE		kNm	16.0	

PRELIMINARY



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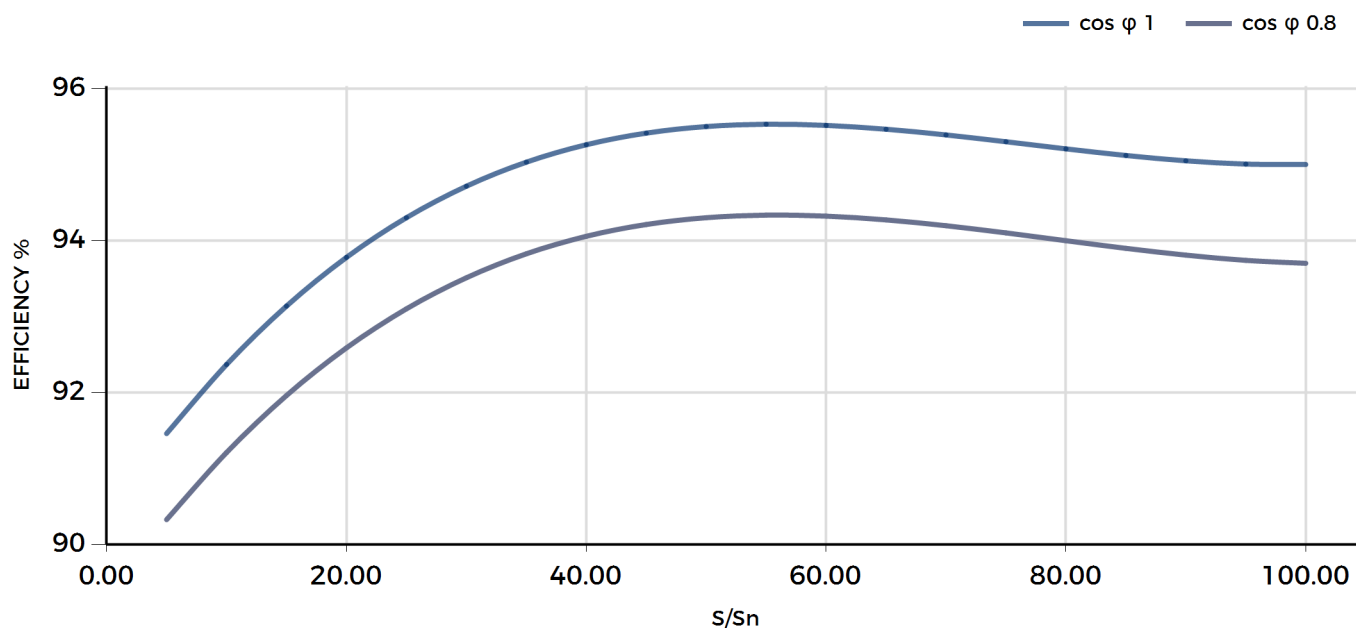
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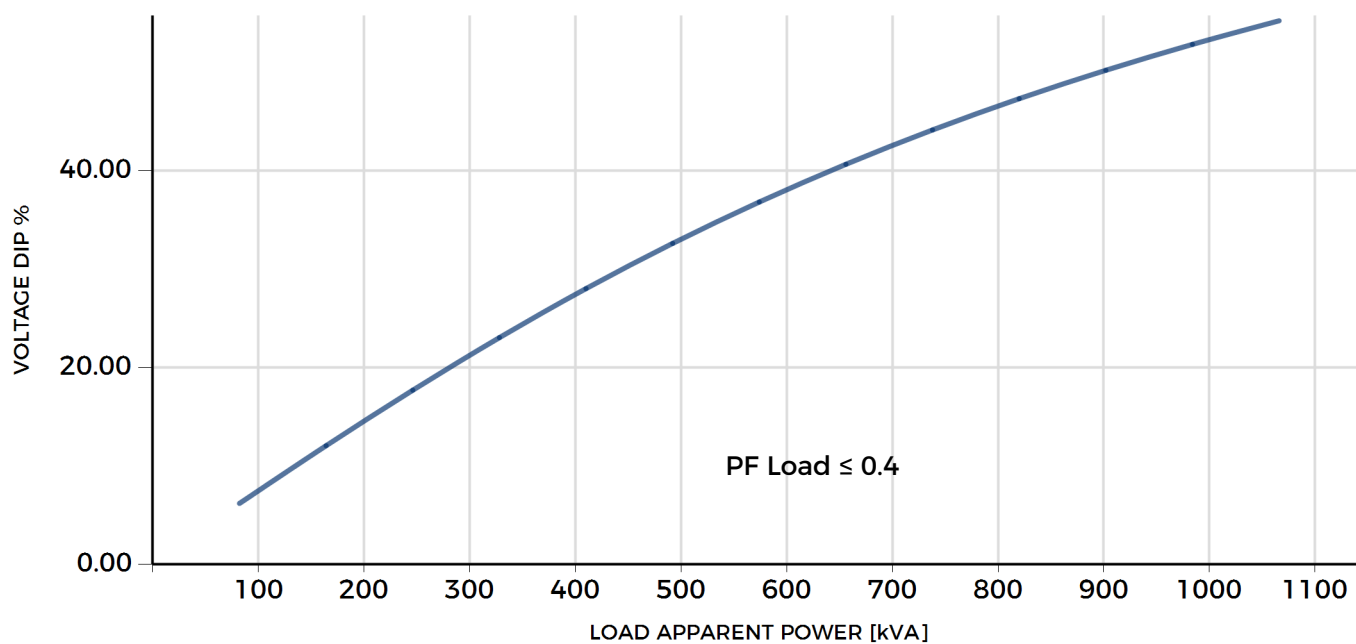
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CURVA DI RENDIMENTO - EFFICIENCY CURVE



CADUTA DI TENSIONE - VOLTAGE DIP





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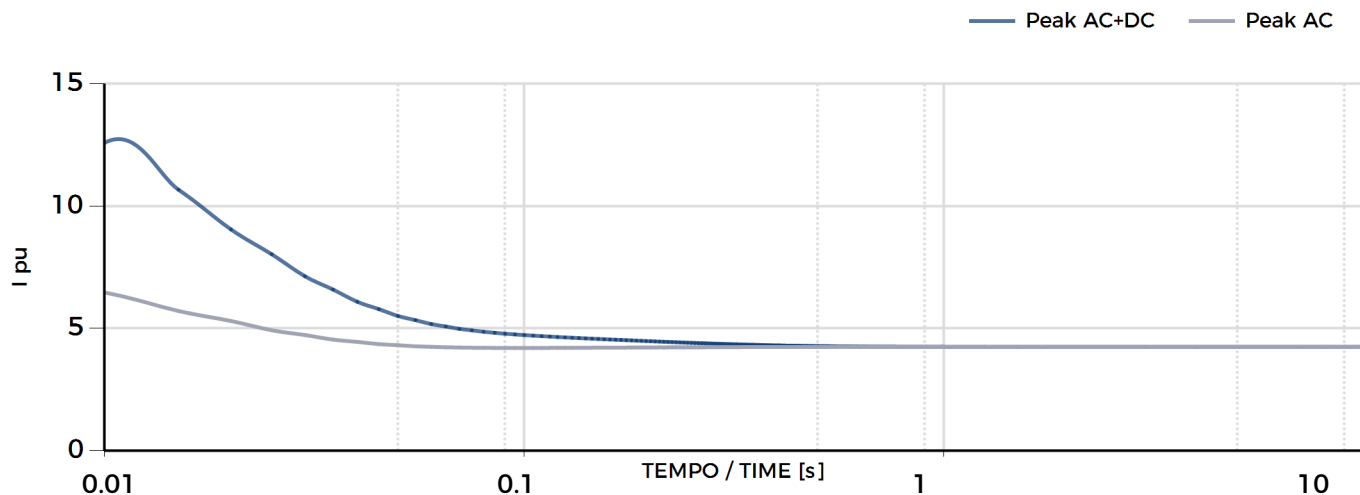
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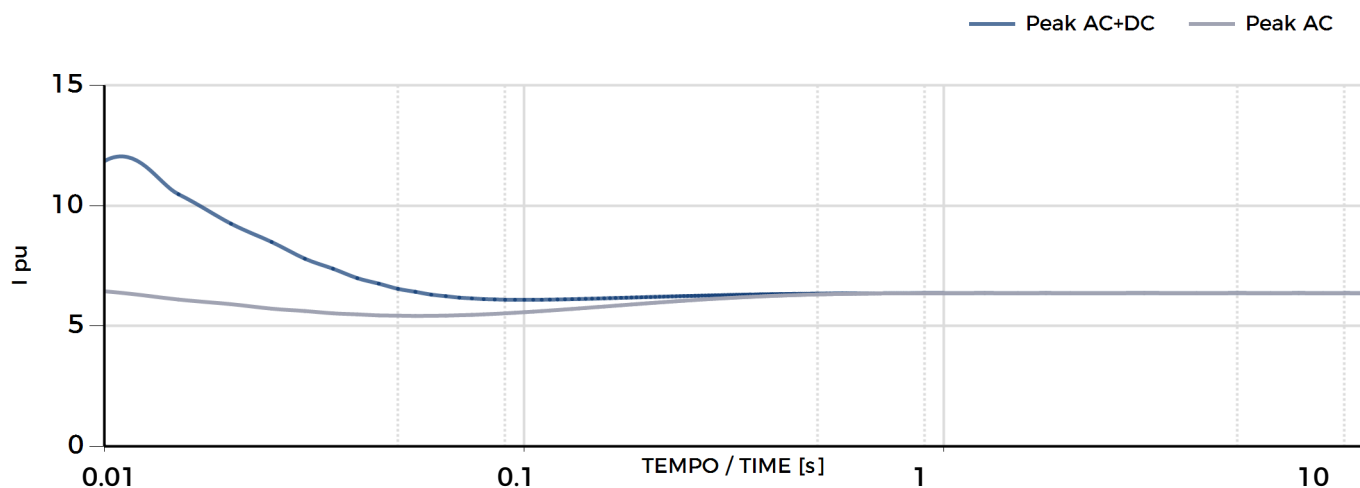
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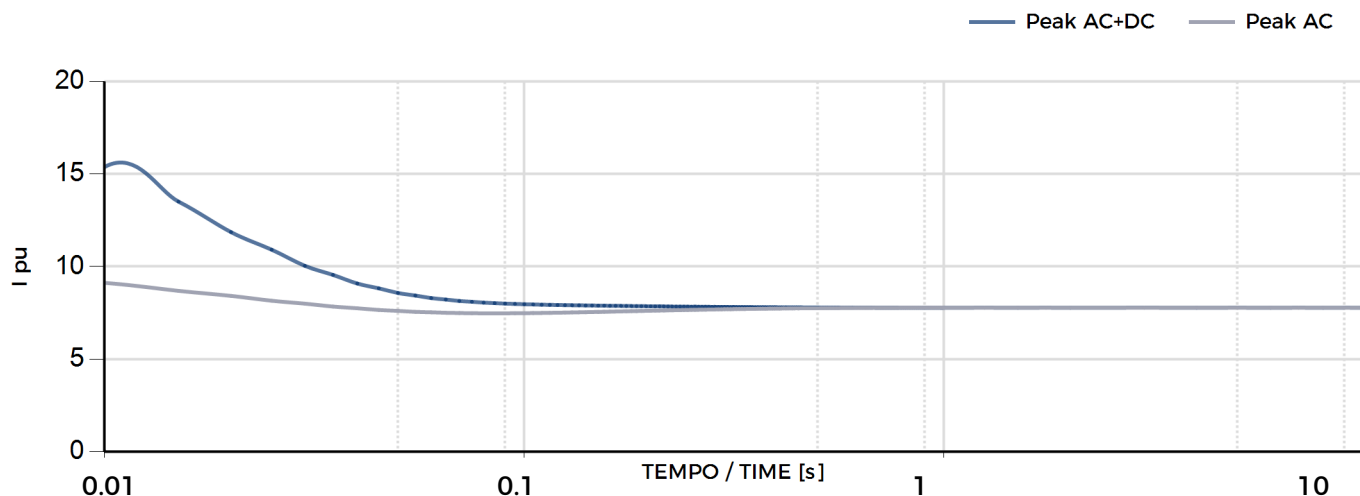
3 - PHASE SHORT CIRCUIT DECREMENT CURVE



2 - PHASE SHORT CIRCUIT DECREMENT CURVE



1- PHASE SHORT CIRCUIT DECREMENT CURVE





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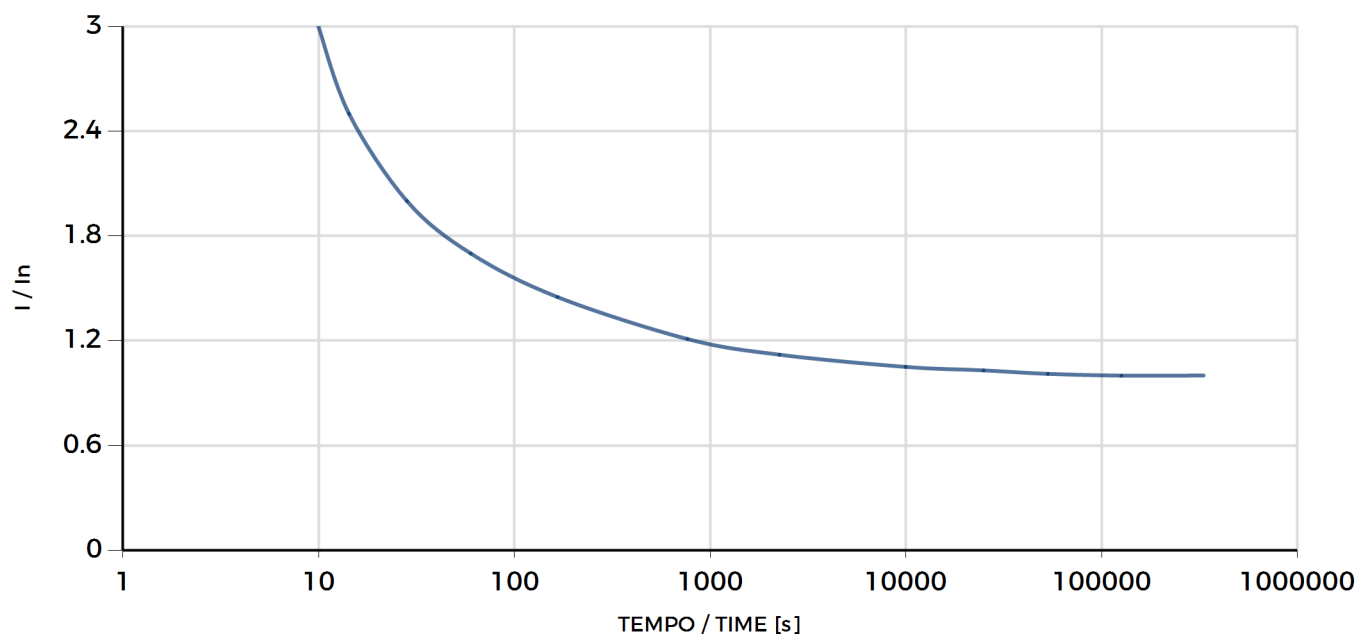
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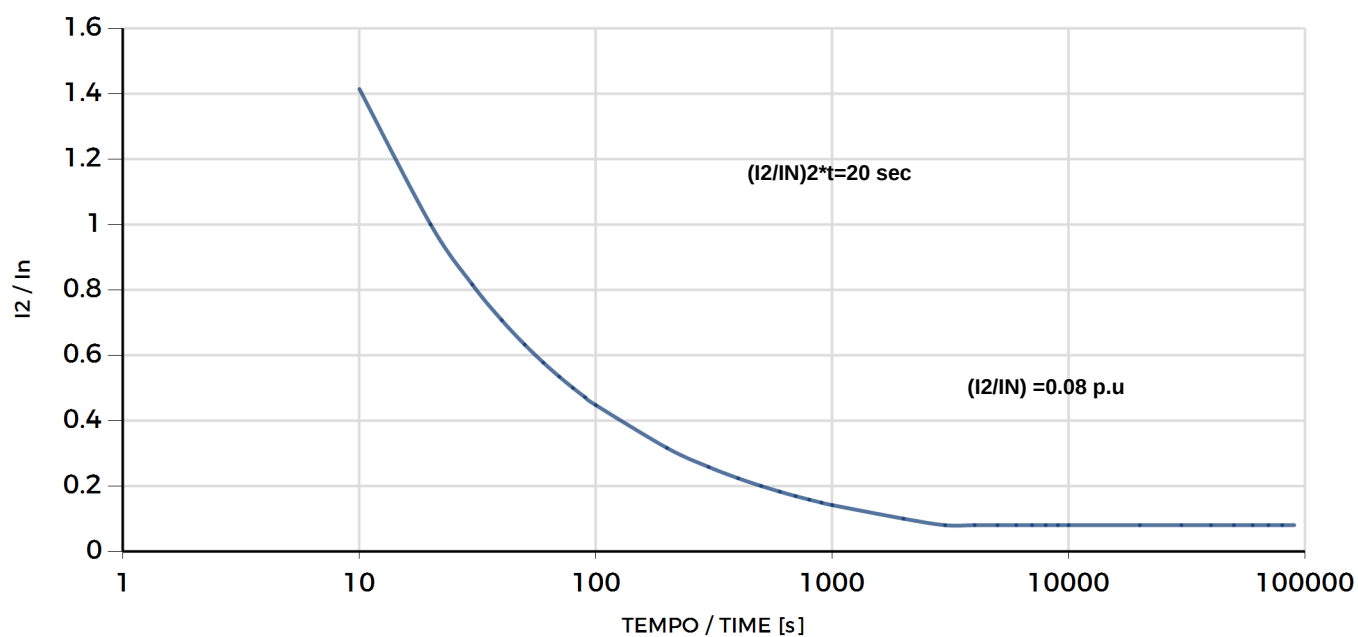
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CURVA DI LIMITE TERMICO - THERMAL DAMAGE CURVE



CORRENTE SEQUENZA INVERSA - NEGATIVE SEQUENCE CURRENT





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CURVA DI CAPABILITY - CAPABILITY CURVE

