

 MarelliMotori Powering the future		TECHNICAL DATASHEET THREE-PHASE SYNCHRONOUS GENERATOR					
		Our Reference -			Date 30/07/2020		
		Customer -			Rev. -		
GENERATORE TIPO - GENERATOR TYPE				MJB 355 SB4			
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			
SOVRAVELOCITÀ - 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	4.61			
PESO - WEIGHT			kg	Approx. 1550			
MOMENTO D'INERZIA - INERTIA (J)			kgm²	Approx. 9.29			
TEMPERATURA ACQUA RAFFREDDAMENTO- COOLING WATER TEMPERATURE			°C	not applicable			
PORTATA D'ACQUA - WATER FLOW RATE			m³/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	822.7			
POTENZA - RATING			kVA	570			
PERCENTUALE DI CARICO - PARTIAL LOAD DATA			%	100	75	50	25
RENDIMENTO - EFFICIENCY		P.F. = 1	%	95.7	96.1	96.3	95.1
		P.F. = 0.80	%	94.6	95.1	95.3	94.2
Rapporto di corto circuito - short circuit ratio			SCR	0.26			
				UNS		SAT	
REATTANZA - REACTANCE (%)		sincrona diretta - synchronous direct axis	Xd	366		340	
		sincrona in quadratura - synchr. quadrature axis	Xq	158		147	
		transitoria diretta - transient direct axis	X'd	30.9		24.7	
		transitoria in quadratura - transient quadrature axis	X'q	158		147	
		subtransitoria diretta - subtransient direct axis	X''d	16.7		15.5	
		subtransitoria in quad. - subtransient quadr. axis	X''q	18.3		17.1	
		di sequenza negativa - negative sequence	X2	20.4		16.3	
		di sequenza zero - zero sequence	Xo	8.5		7.9	
COSTANTI DI TEMPO - TIME CONSTANTS (s)		a vuoto - open circuit	T'do	2.426			
		transitoria - transient	T'd	0.220			
		subtransitoria - subtransient	T''d	0.015			
		unidirezionale - armature	Ta = Tdc	0.027			
COPPIA DI CORTO CIRCUITO DI BIFASE - PHASE TO PHASE SHORT CIRCUIT TORQUE			kNm	35.1			
COPPIA DI CORTO CIRCUITO DI TRIFASE- THREE PHASE SHORT CIRCUIT TORQUE			kNm	23.4			

PRELIMINARY



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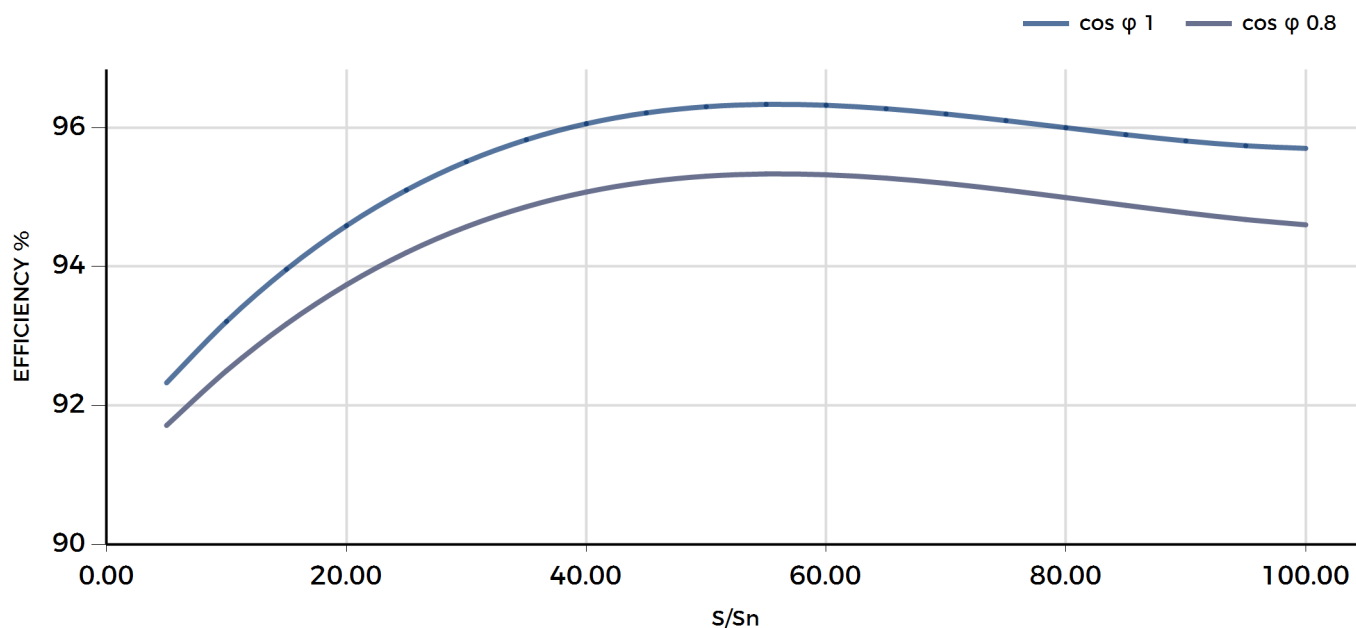
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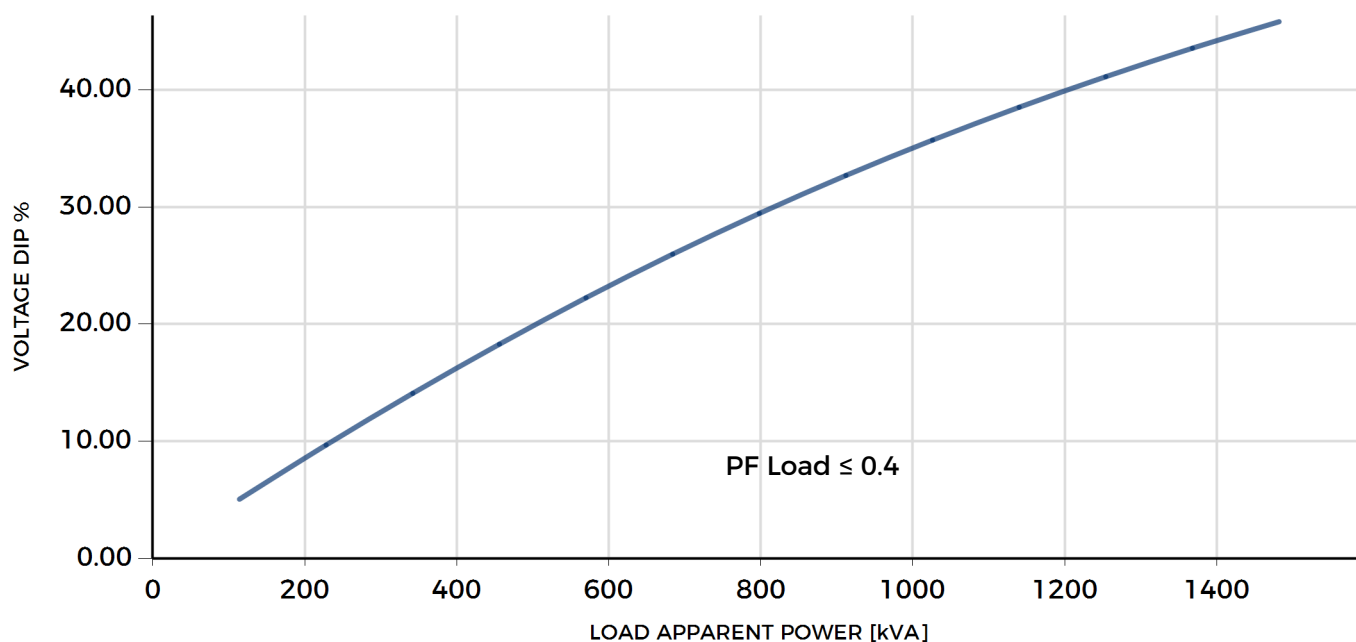
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CURVA DI RENDIMENTO - EFFICIENCY CURVE



CADUTA DI TENSIONE - VOLTAGE DIP





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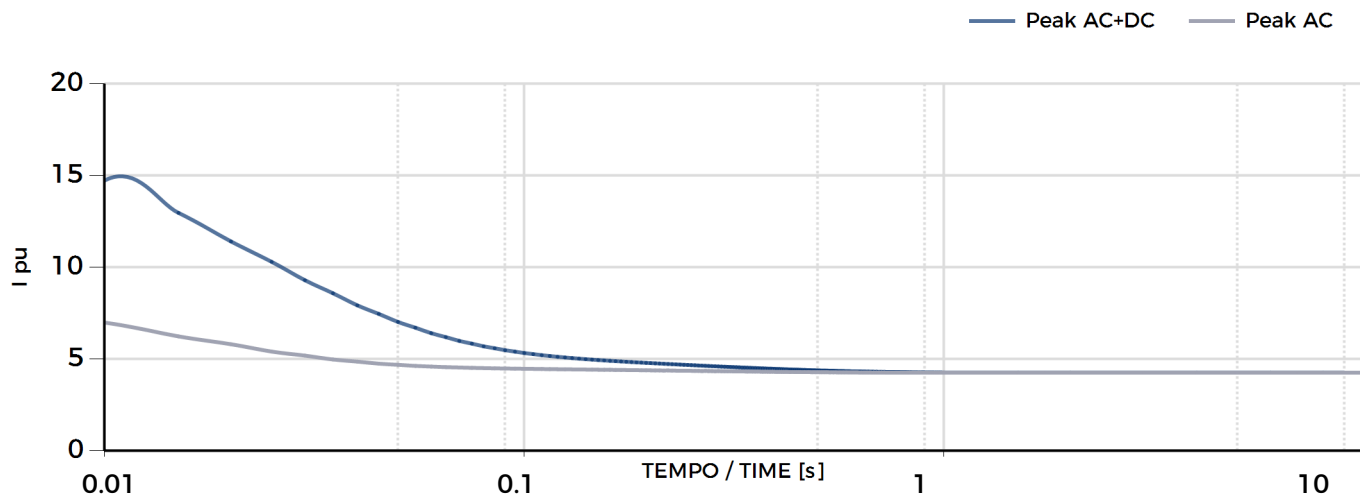
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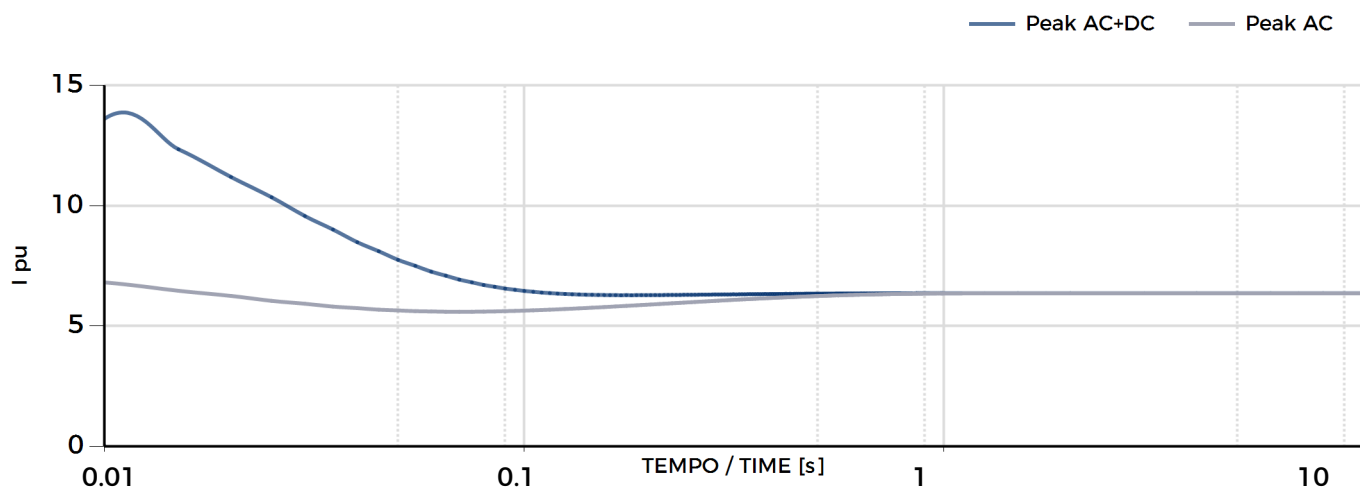
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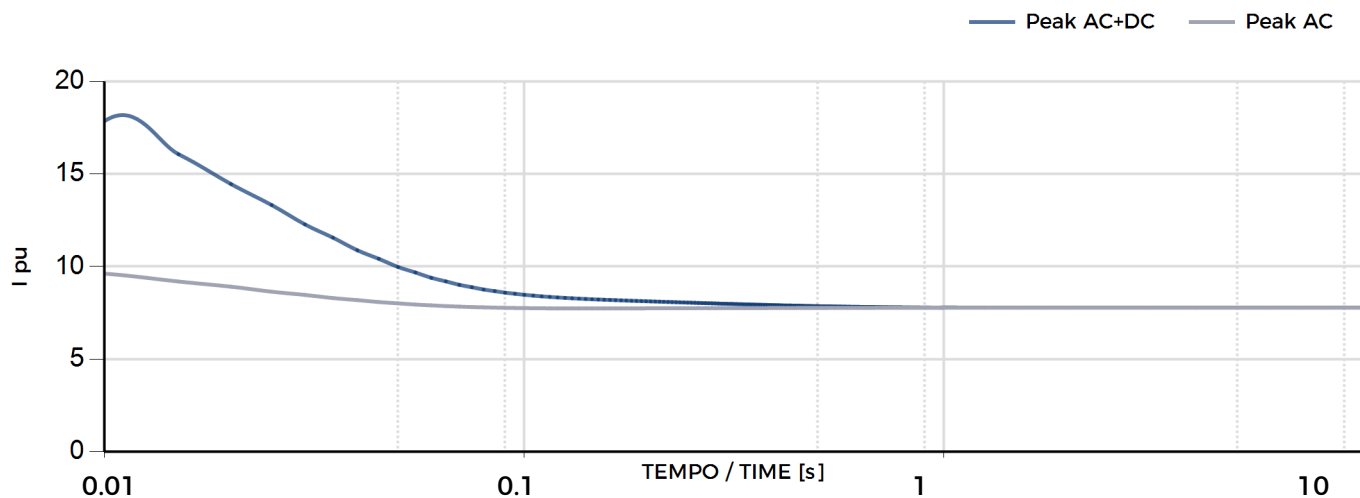
3 - PHASE SHORT CIRCUIT DECREMENT CURVE



2 - PHASE SHORT CIRCUIT DECREMENT CURVE



1- PHASE SHORT CIRCUIT DECREMENT CURVE





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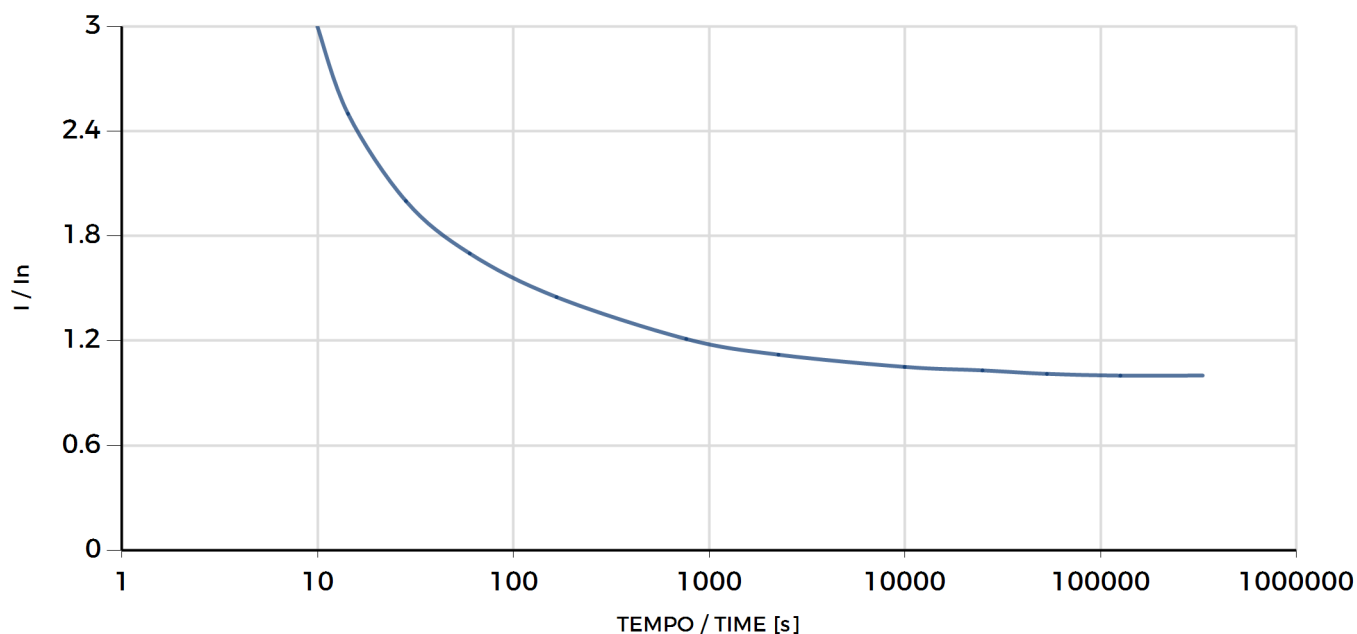
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CURVA DI LIMITE TERMICO - THERMAL DAMAGE CURVE



CORRENTE SEQUENZA INVERSA - NEGATIVE SEQUENCE CURRENT

