

 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 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	11.75		
PESO - WEIGHT				kg	Approx. 920		
MOMENTO D'INERZIA - INERTIA (J)				kgm²	Approx. 4.25		
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	505.2		
POTENZA - RATING				kVA	350		
PERCENTUALE DI CARICO - PARTIAL LOAD DATA			%	100	75	50	25
RENDIMENTO - EFFICIENCY		P.F. = 1	%	94.8	95.2	95.3	94.1
		P.F. = 0.80	%	93.4	93.9	94.1	92.9
Rapporto di corto circuito - short circuit ratio				SCR	0.27		
					UNS		SAT
REATTANZA - REACTANCE (%)		sincrona diretta - synchronous direct axis	Xd	371	341		
		sincrona in quadratura - synchr. quadrature axis	Xq	157	144		
		transitoria diretta - transient direct axis	X'd	33.3	26.7		
		transitoria in quadratura - transient quadrature axis	X'q	157	144		
		subtransitoria diretta - subtransient direct axis	X''d	18.7	17.2		
		subtransitoria in quad. - subtransient quadr. axis	X''q	20.6	18.9		
		di sequenza negativa - negative sequence	X2	21.1	18.1		
		di sequenza zero - zero sequence	Xo	9.2	8.5		
COSTANTI DI TEMPO - TIME CONSTANTS (s)		a vuoto - open circuit	T'do	1.599			
		transitoria - transient	T'd	0.156			
		subtransitoria - subtransient	T''d	0.011			
		unidirezionale - armature	Ta = Tdc	0.016			
COPPIA DI CORTO CIRCUITO DI BIFASE - PHASE TO PHASE SHORT CIRCUIT TORQUE			kNm	19.4			
COPPIA DI CORTO CIRCUITO DI TRIFASE- THREE PHASE SHORT CIRCUIT TORQUE			kNm	13.0			

PRELIMINARY



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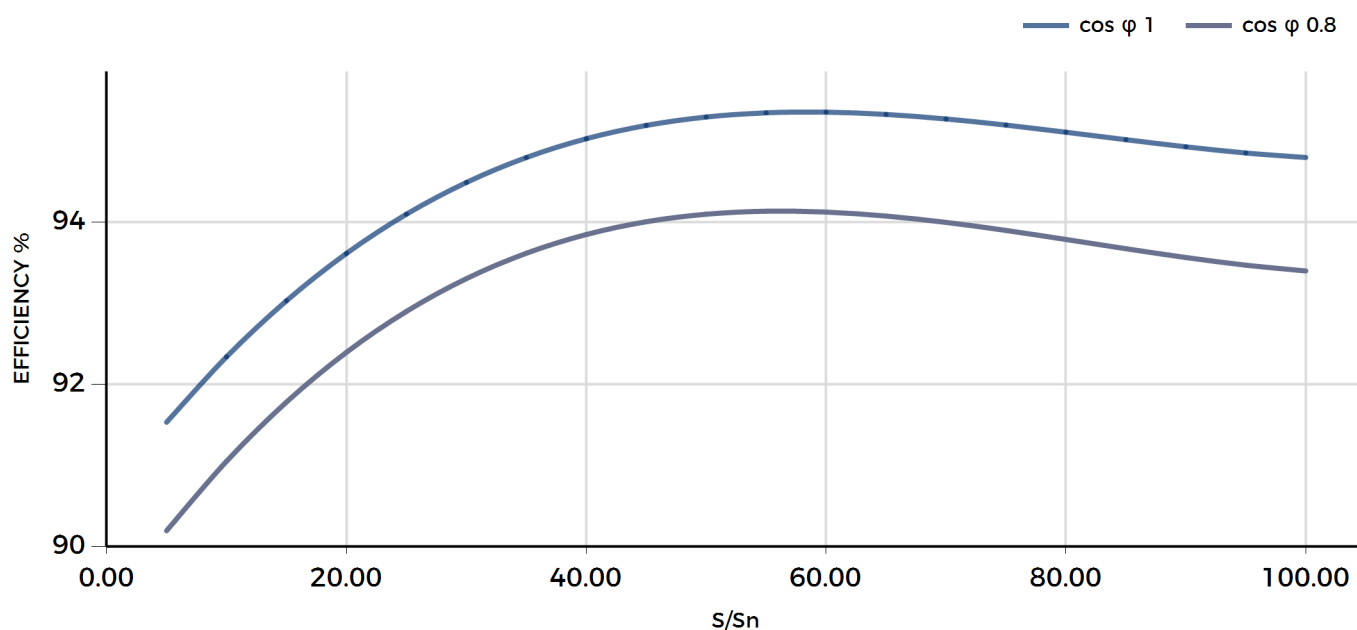
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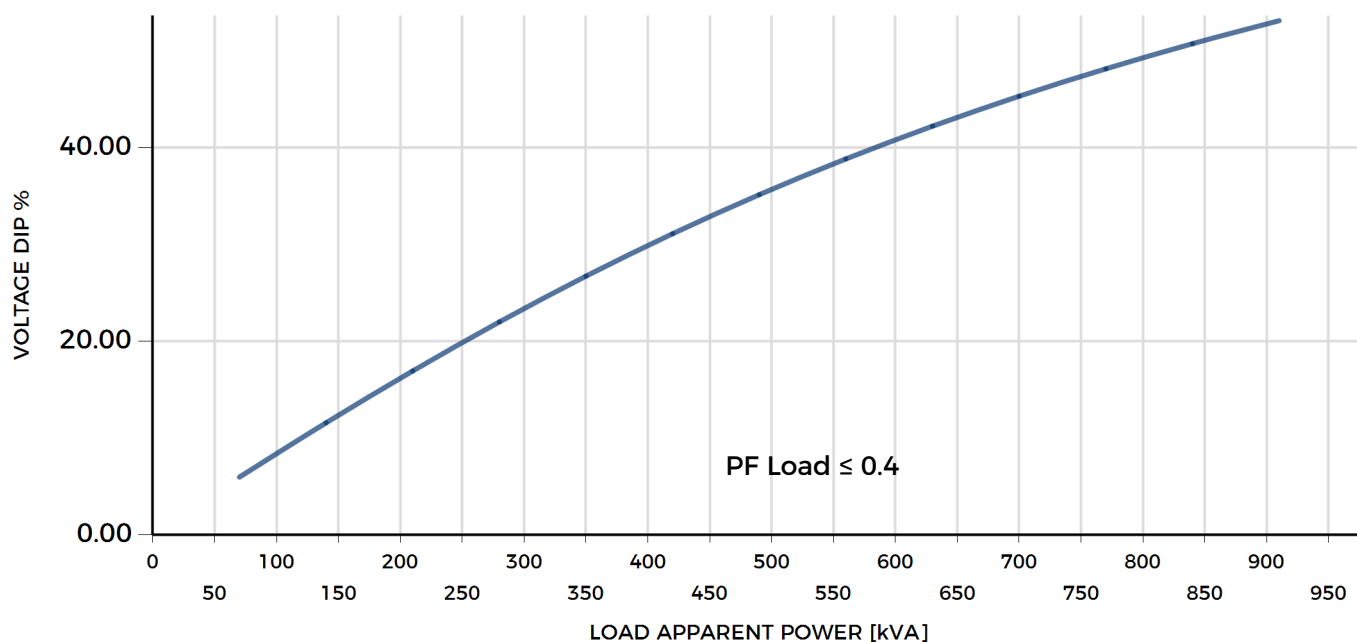
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CURVA DI RENDIMENTO - EFFICIENCY CURVE



CADUTA DI TENSIONE - VOLTAGE DIP





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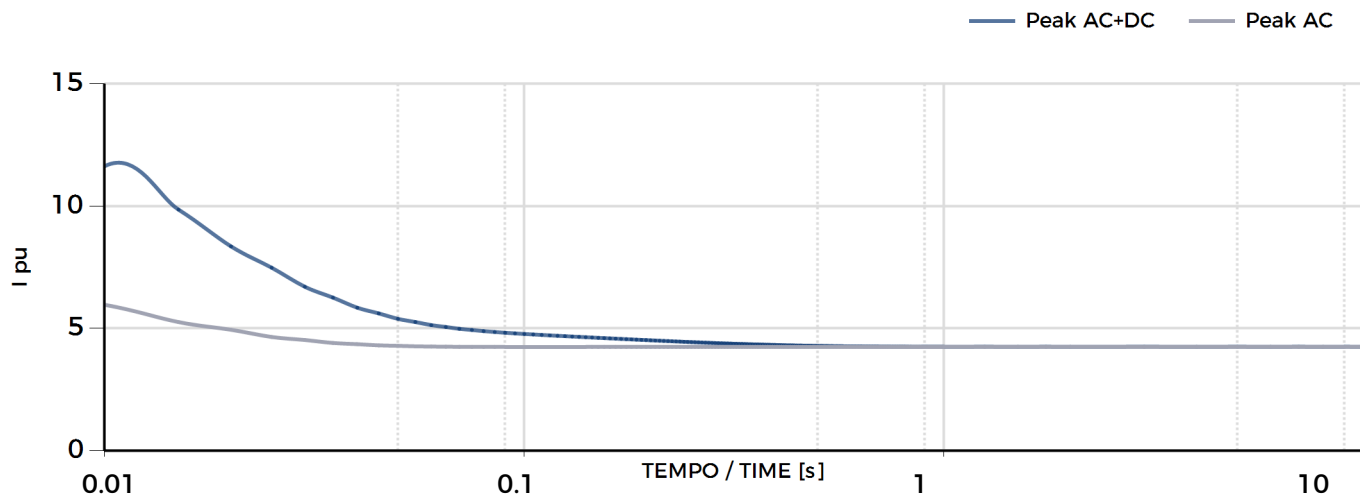
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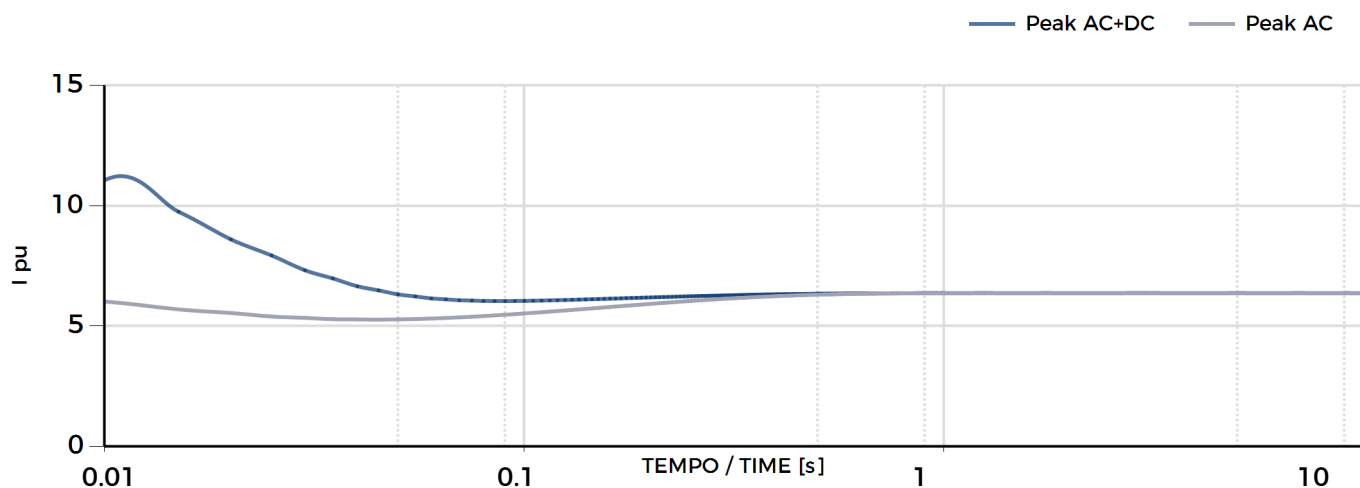
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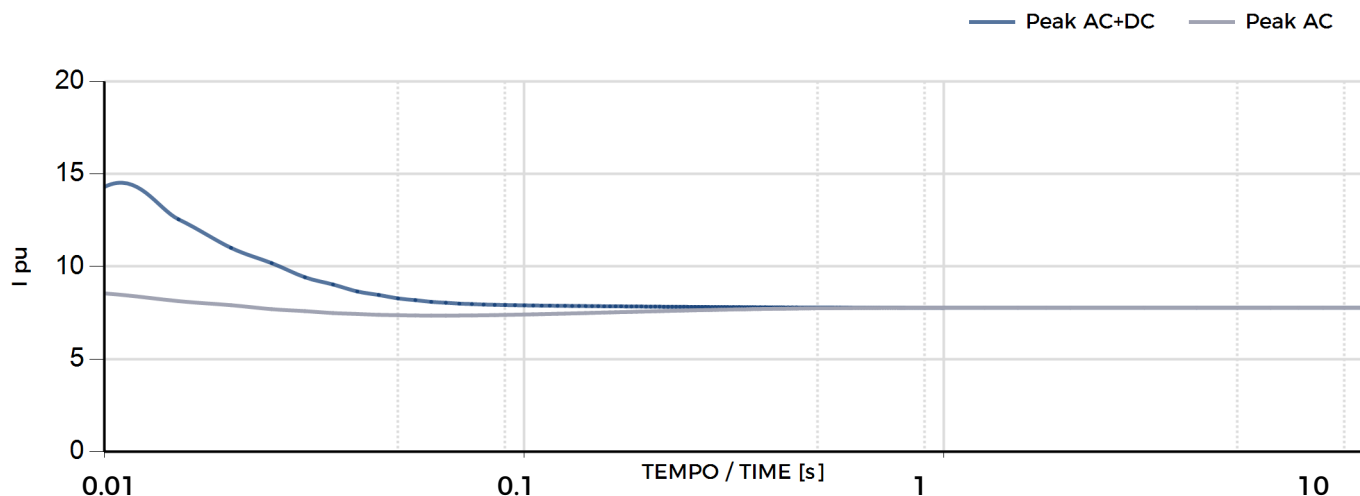
3 - PHASE SHORT CIRCUIT DECREMENT CURVE



2 - PHASE SHORT CIRCUIT DECREMENT CURVE



1- PHASE SHORT CIRCUIT DECREMENT CURVE





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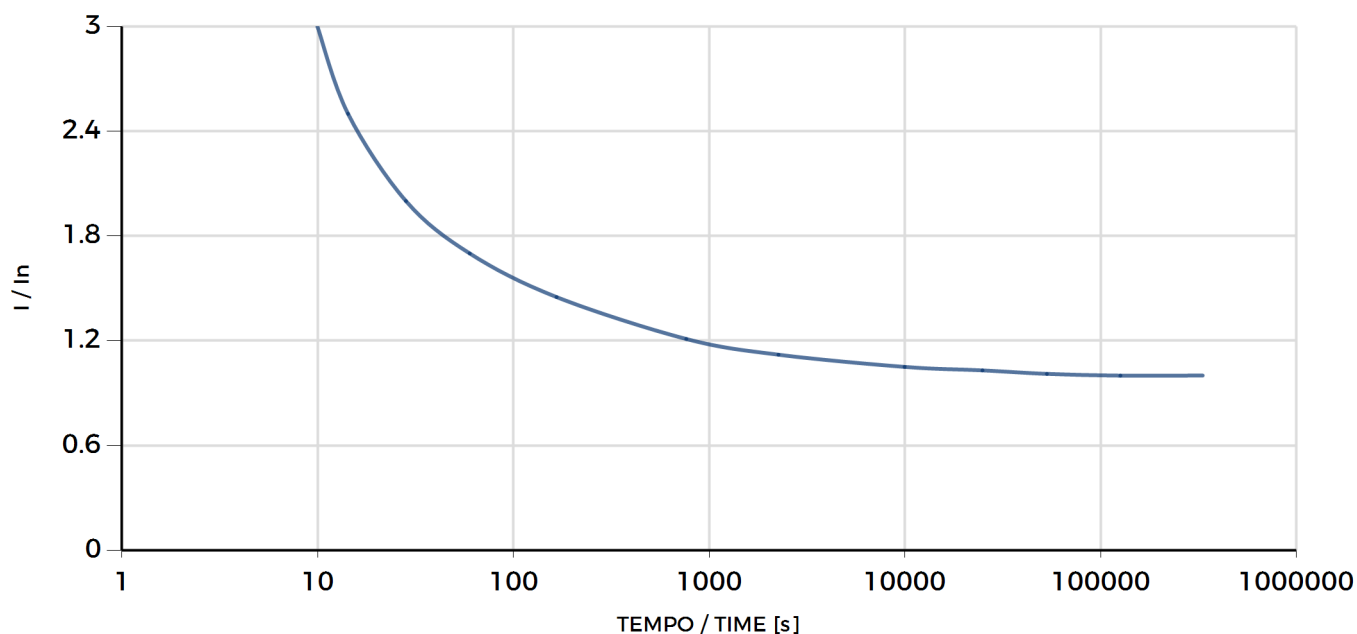
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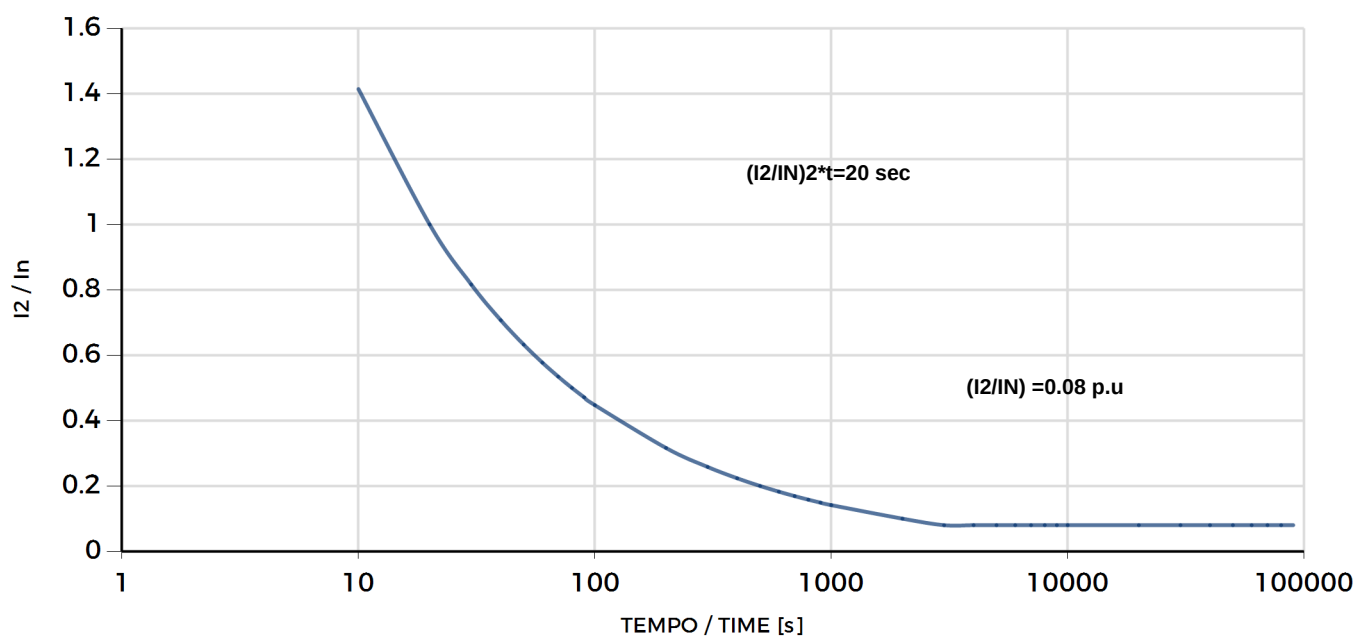
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CURVA DI LIMITE TERMICO - THERMAL DAMAGE CURVE



CORRENTE SEQUENZA INVERSA - NEGATIVE SEQUENCE CURRENT





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CURVA DI CAPABILITY - CAPABILITY CURVE

