



MarelliMotori
Powering the future

TECHNICAL DATASHEET

THREE-PHASE SYNCHRONOUS GENERATOR

Our Reference -

Date 30/07/2020

Customer -

Rev. -

GENERATORE TIPO - GENERATOR TYPE		MJB 355 SA4				
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	7.29				
PESO - WEIGHT	kg	Approx. 1250				
MOMENTO D'INERZIA - INERTIA (J)	kgm ²	Approx. 7.97				
TEMPERATURA ACQUA RAFFREDDAMENTO - COOLING WATER TEMPERATURE	°C	not applicable				
PORTATA DACQUA - 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	736.1				
POTENZA - RATING	kVA	510				
PERCENTUALE DI CARICO - PARTIAL LOAD DATA		%	100	75	50	25
RENDIMENTO - EFFICIENCY	P.F. = 1	%	95.3	95.7	96.0	94.8
	P.F. = 0.80	%	94.0	94.6	94.9	93.8
Rapporto di corto circuito - short circuit ratio	SCR	0.22				
		UNS	SAT			
REATTANZA - REACTANCE (%)	sincrona diretta - synchronous direct axis	Xd	437	414		
	sincrona in quadratura - synchr. quadrature axis	Xq	189	179		
	transitoria diretta - transient direct axis	X'd	37.8	30.2		
	transitoria in quadratura - transient quadrature axis	X'q	189	179		
	subtransitoria diretta - subtransient direct axis	X''d	19.7	18.7		
	subtransitoria in quad. - subtransient quadr. axis	X''q	21.7	20.6		
	dī sequenza negativa - negative sequence	X2	24.5	19.6		
	dī sequenza zero - zero sequence	Xo	10.2	9.6		
COSTANTI DI TEMPO - TIME CONSTANTS (s)	a vuoto - open circuit	T'do	2.311			
	transitoria - transient	T'd	0.211			
	subtransitoria - subtransient	T''d	0.014			
	unidirezionale - armature	Ta = Tdc	0.022			
COPPIA DI CORTO CIRCUITO DI BIFASE - PHASE TO PHASE SHORT CIRCUIT TORQUE	kNm	26.0				
COPPIA DI CORTO CIRCUITO DI TRIFASE - THREE PHASE SHORT CIRCUIT TORQUE	kNm	17.4				

PRELIMINARY



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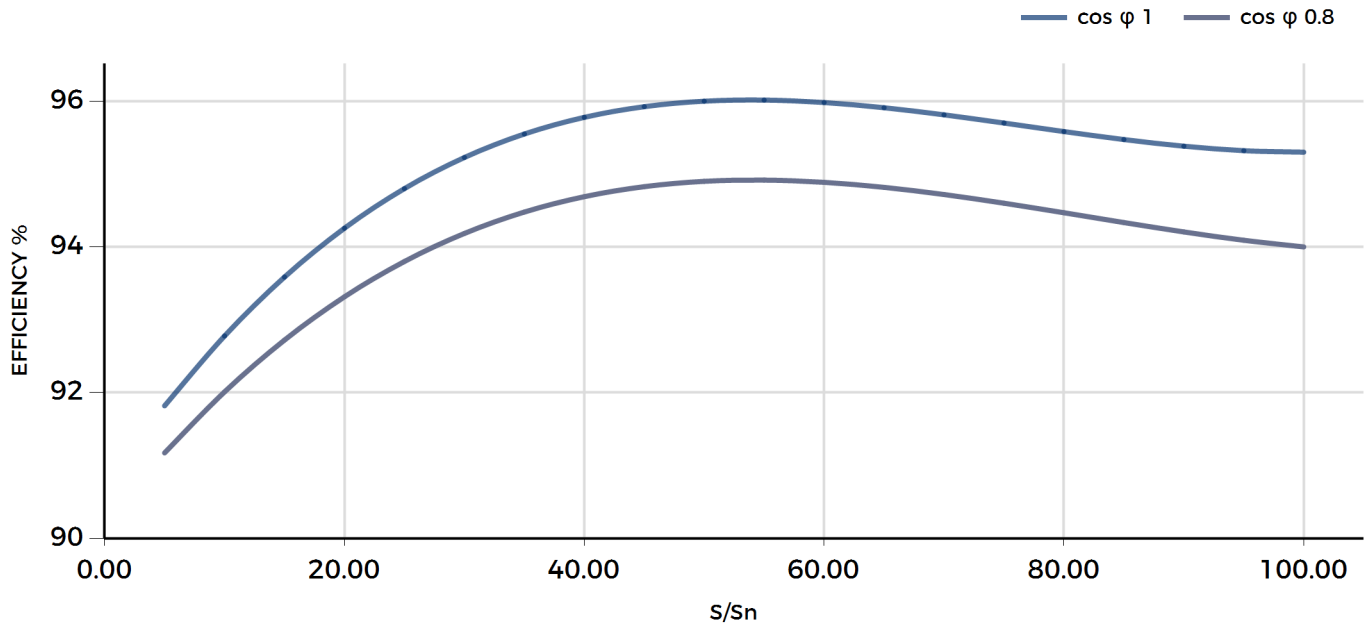
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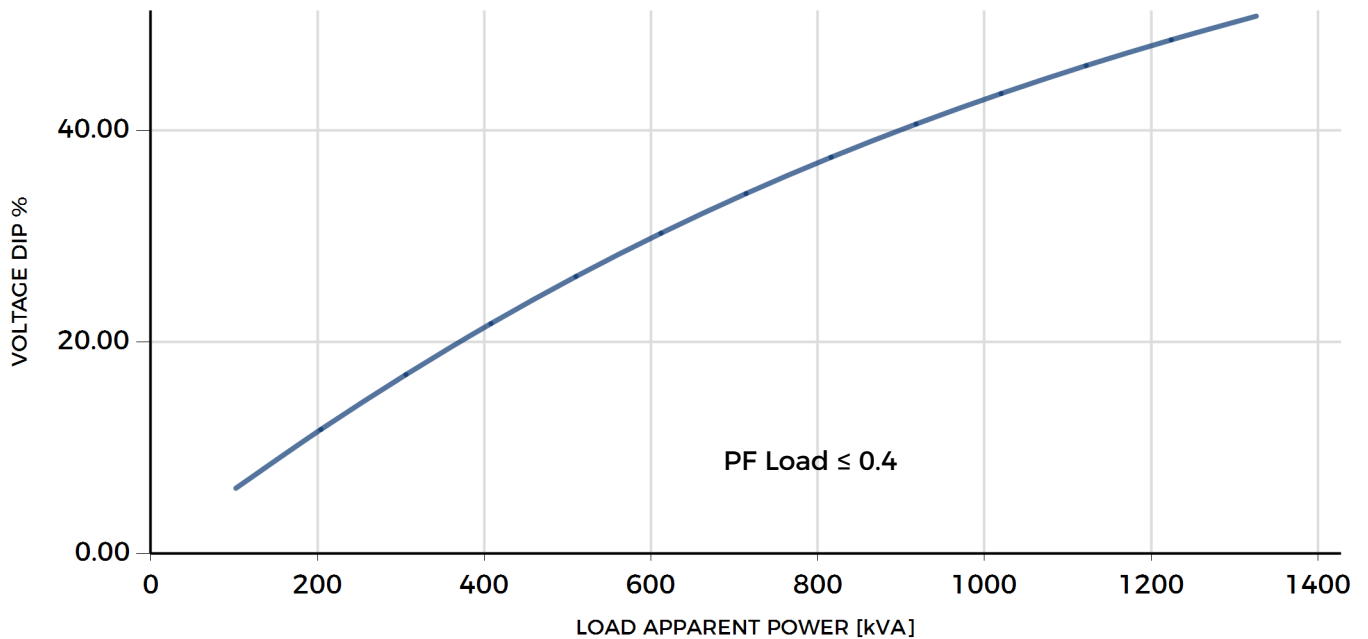
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CURVA DI RENDIMENTO - EFFICIENCY CURVE



CADUTA DI TENSIONE - VOLTAGE DIP





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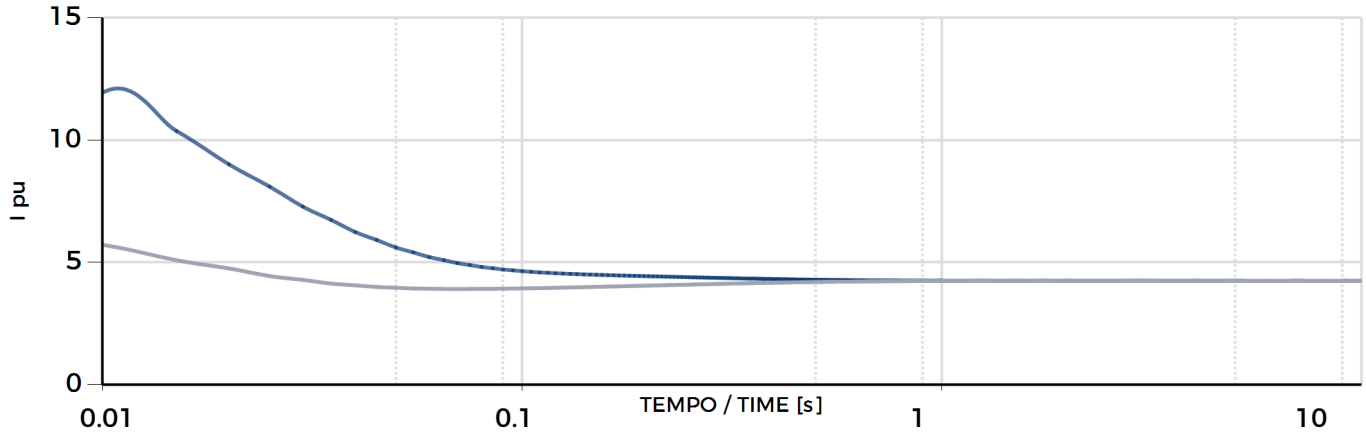
Date 30/07/2020

Customer -

Rev. -

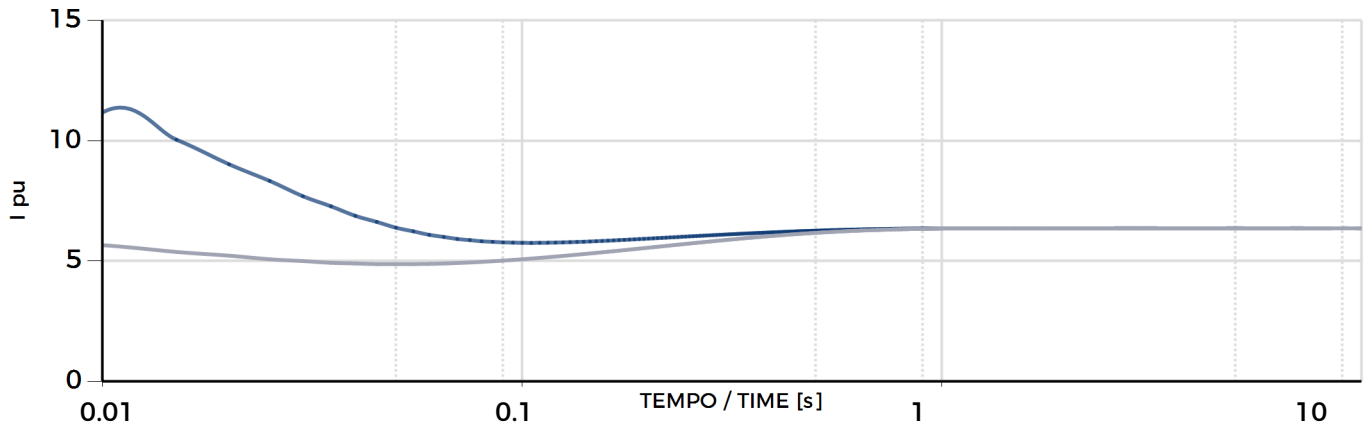
3 - PHASE SHORT CIRCUIT DECREMENT CURVE

— Peak AC+DC — Peak AC



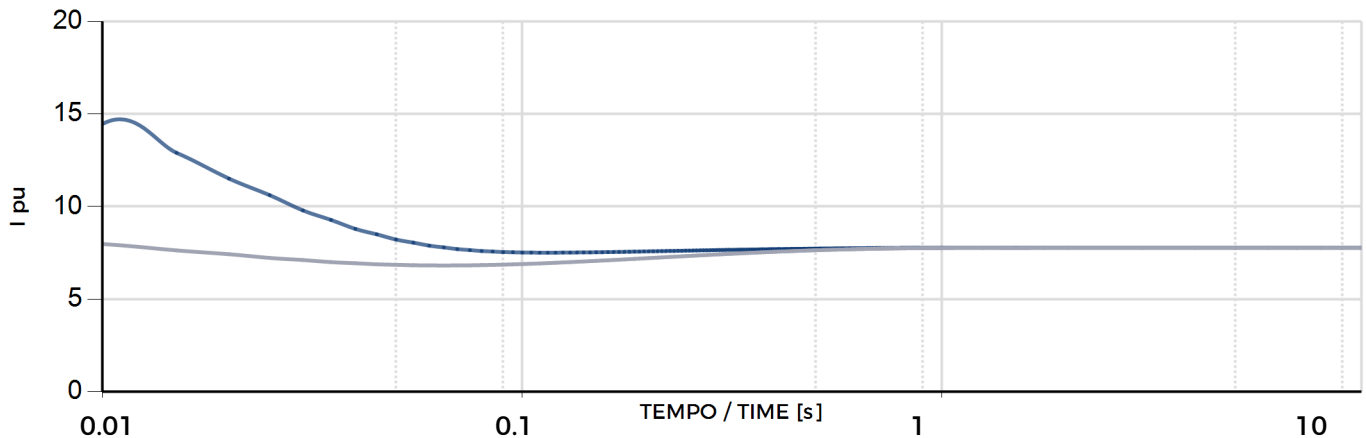
2 - PHASE SHORT CIRCUIT DECREMENT CURVE

— Peak AC+DC — Peak AC



1 - PHASE SHORT CIRCUIT DECREMENT CURVE

— Peak AC+DC — Peak AC





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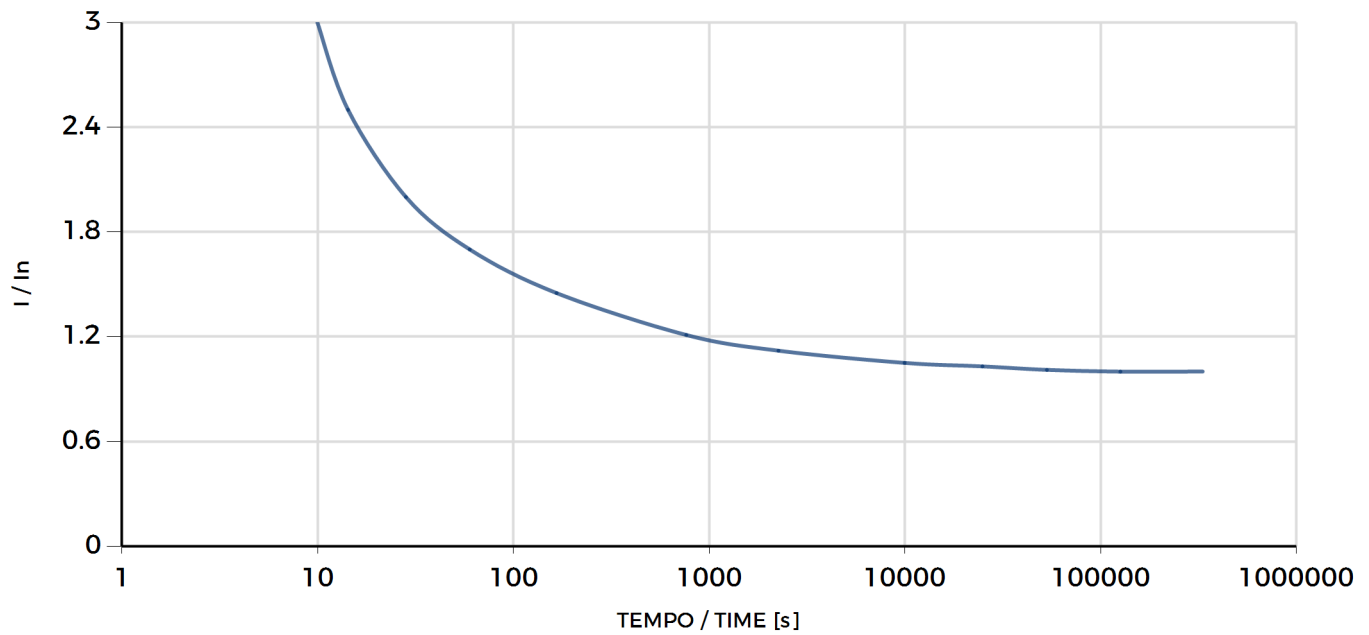
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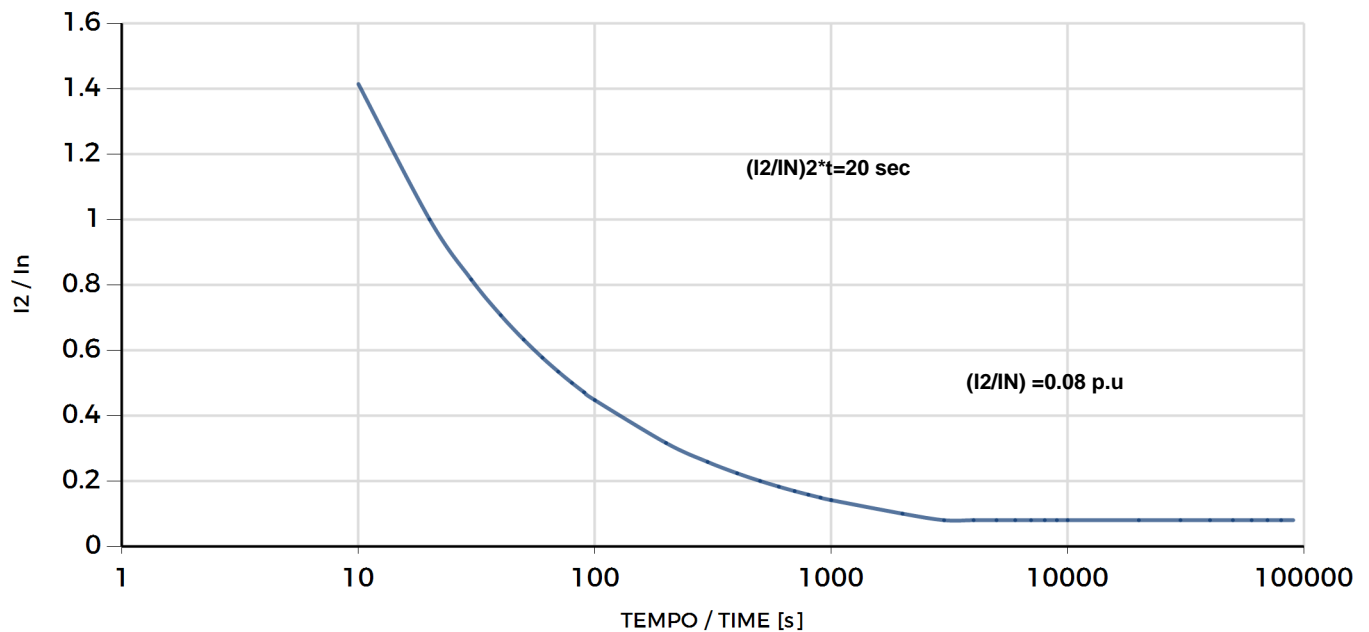
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CURVA DI LIMITE TERMICO - THERMAL DAMAGE CURVE



CORRENTE SEQUENZA INVERSA - NEGATIVE SEQUENCE CURRENT





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CURVA DI CAPABILITY - CAPABILITY CURVE

