MarelliMotori
Inspired solutions

PRELIMINARY

GENERATORE SINCRONO TRIFASE
THREE - PHASE SYNCHRONOUS GENERATOR

Project: _____

MJB 250 LA4

Reference: _____

CLASSE DI SOVRATEMPERATURA - TEMPERATURE RISE CLASS	H
CLASSE DI ISOLAMENTO – INSULATION CLASS	H
PASSO DI AVVOLGIMENTO - WINDING PITCH	2/3
FORMA COSTRUTTIVA – MOUNTING	B20
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. 660
MOMENTO D'INERZIA (J) (kg*m²)- INERTIA (J) (kg*m²)	Approx. 1.89
TEMPERATURA ACQUA RAFFREDDAMENTO (°C) – COOLING WATER TEMPERATURE (°C)	
PORTATA D'ACQUA (m³/h) – WATER FLOW RATE (m³/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	317.5
POTENZA - RATING	kVA	220
RENDIMENTO - EFFICIENCY - (%)	4/4	94.6
P.F.= 1.0	3/4	94.9
	2/4	95.0
RENDIMENTO - EFFICIENCY - (%)	4/4	93.2
P.F.= 0.8	3/4	93.6
	2/4	93.7

Rapporto di corto circuito - short circuit ratio		SCR	0.40
reattanza - reactance (%)	sincrona diretta - synchronous direct axis	Xd uns	340
	sincrona in quadratura - synchr. quadrature axis	Xq uns	189
	transitoria diretta - transient direct axis	X'd sat	28.6
	transitoria in quadratura - transient quadrature axis	X'q uns	189
	subtransitoria diretta - subtransient direct axis	X"d sat	11.2
	subtransitoria in quad. - subtransient quadr. axis	X"q sat	13.4
	di sequenza negativa - negative sequence	X2 sat	12.3
	di sequenza zero - zero sequence	Xo sat	2.7
costanti di tempo - time constants (s)	a vuoto - open circuit	T'do	1.000
	transitoria - transient	T'd	0.100
	subtransitoria - subtransient	T"d	0.010
	unidirezionale - armature	Ta	0.013
Coppia di corto circuito bifase - Phase to Phase short circuit torque		kN*m	18.8
Coppia di corto circuito trifase - Three phase short circuit torque		kN*m	12.5

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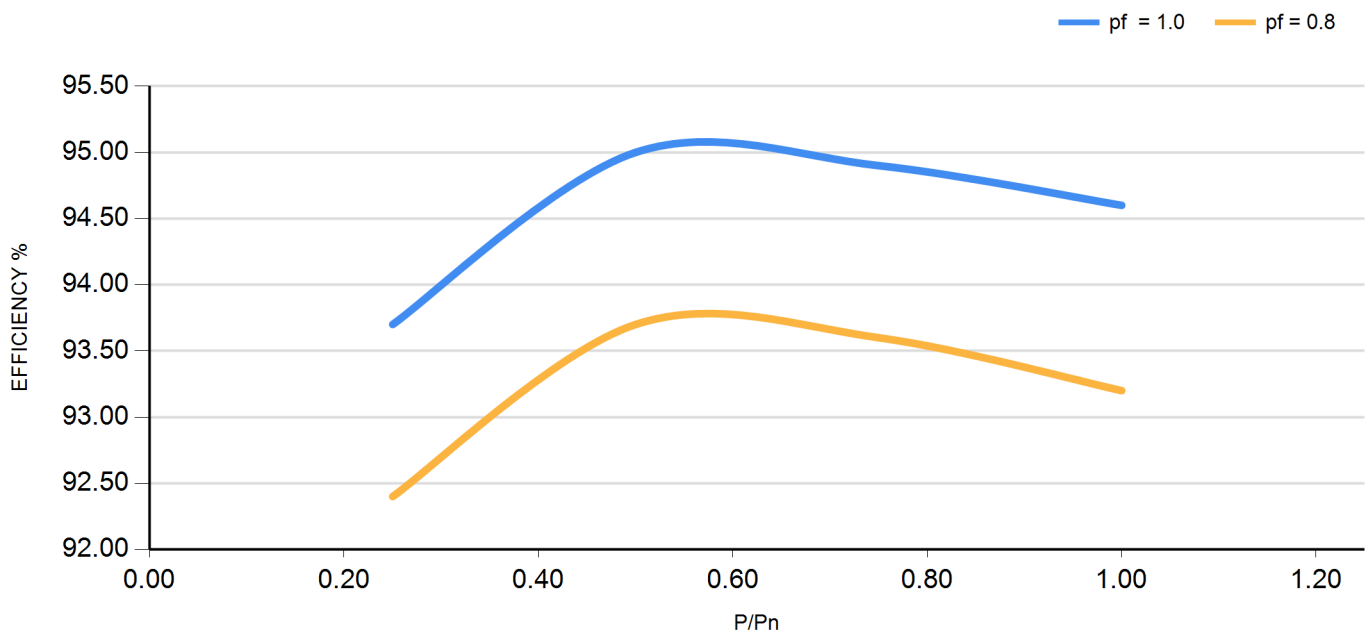
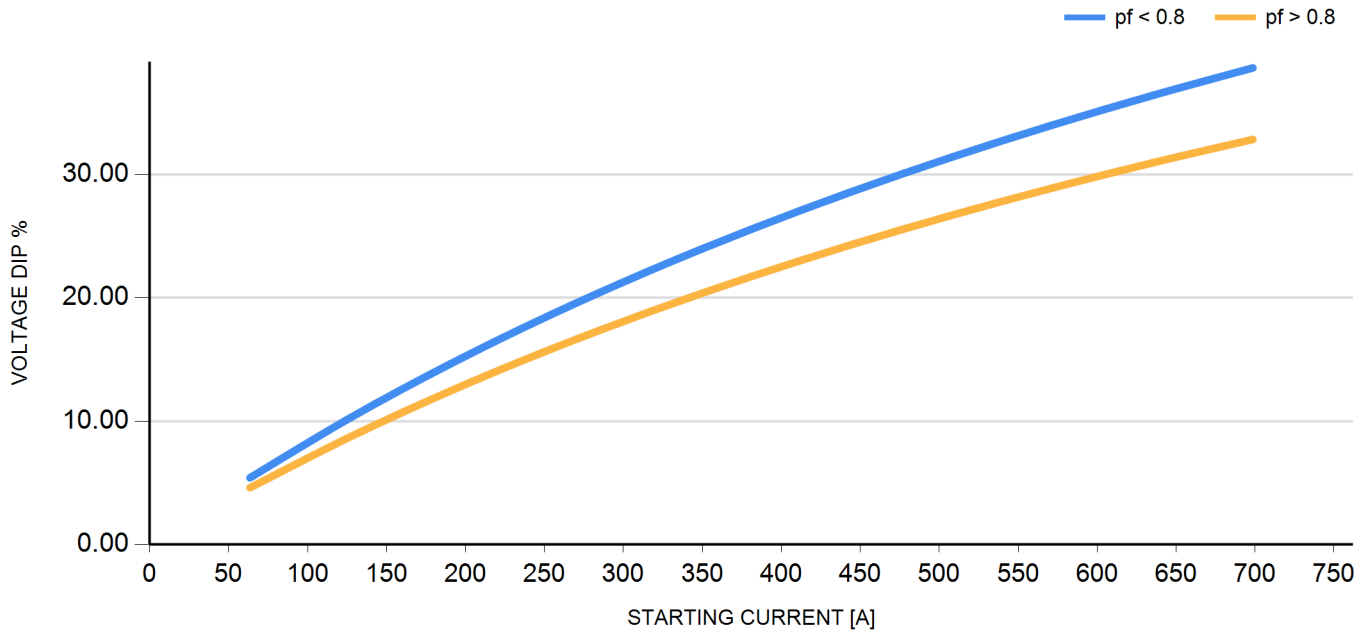
CURVA DI RENDIMENTO - EFFICIENCY CURVE



CADUTA DI TENSIONE - VOLTAGE DIP



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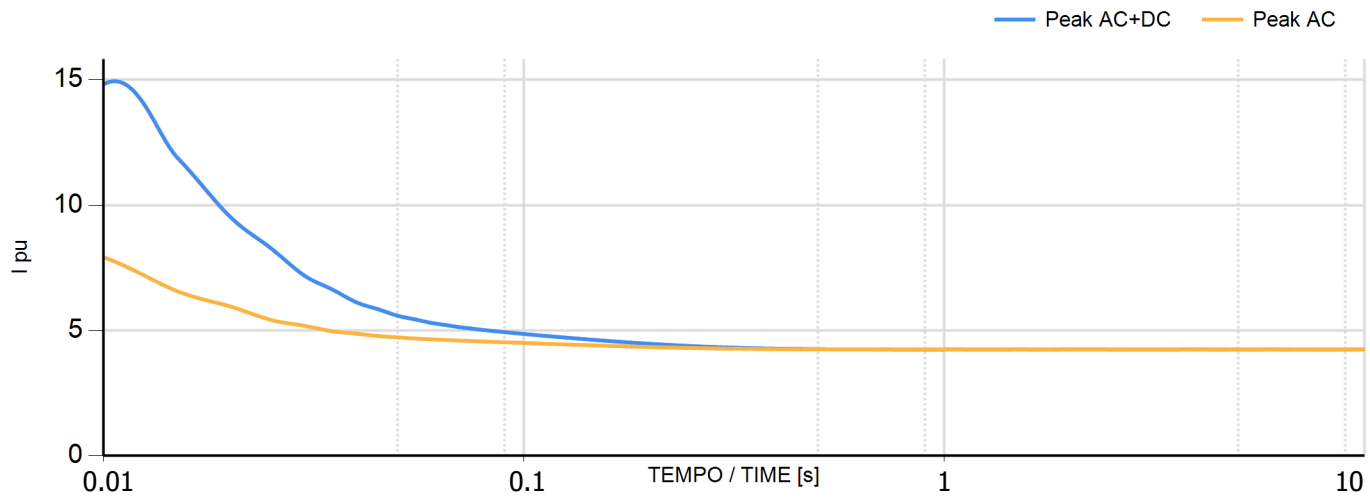
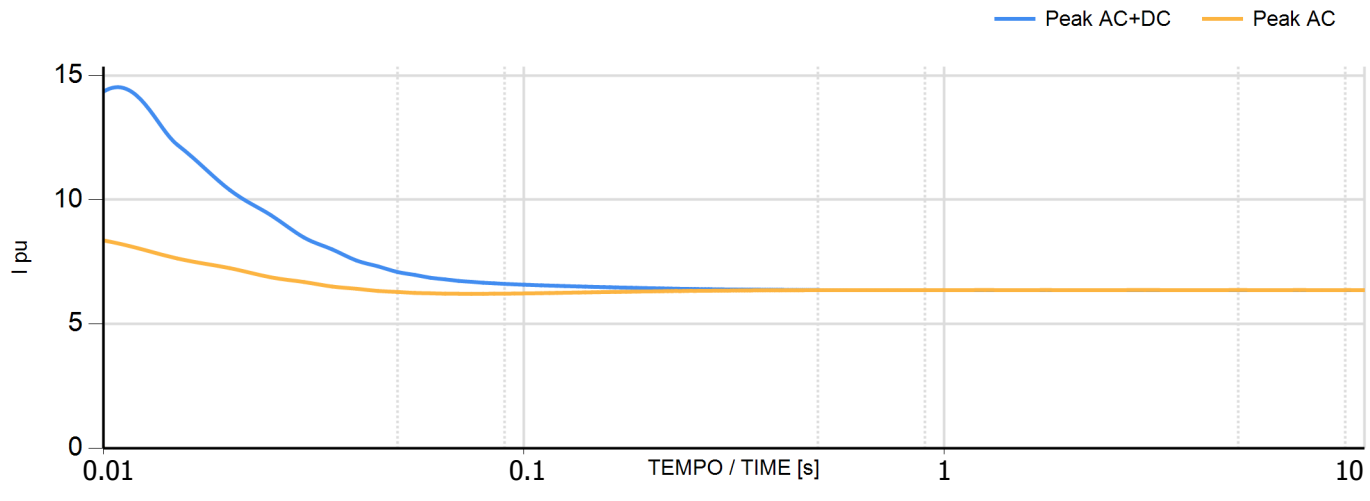
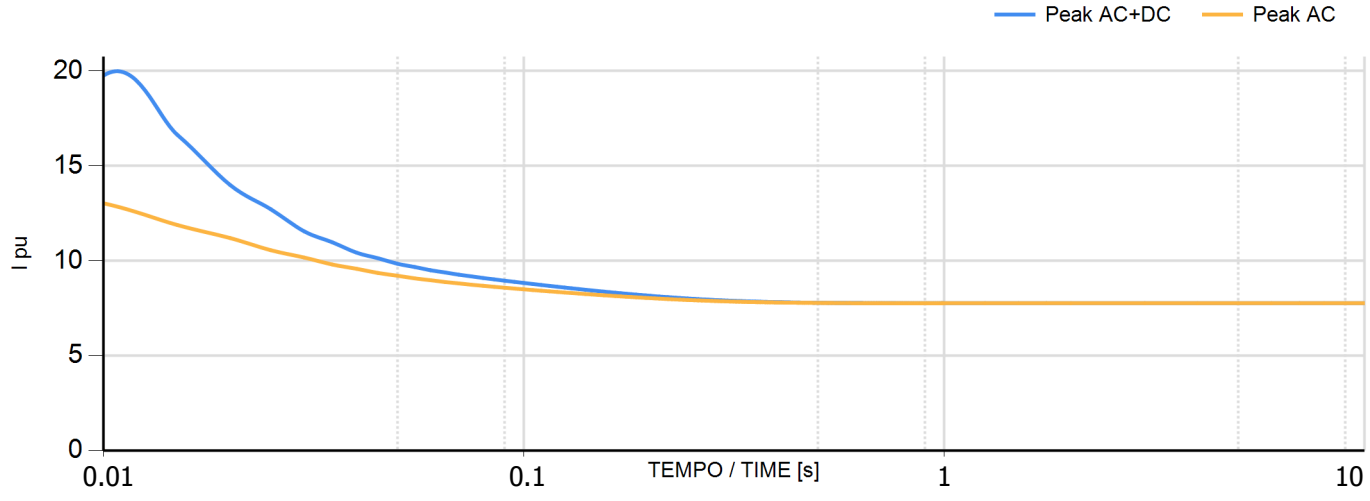
3 - PHASE SHORT CIRCUIT DECREMENT CURVE



2 - PHASE SHORT CIRCUIT DECREMENT CURVE



1- PHASE SHORT CIRCUIT DECREMENT CURVE



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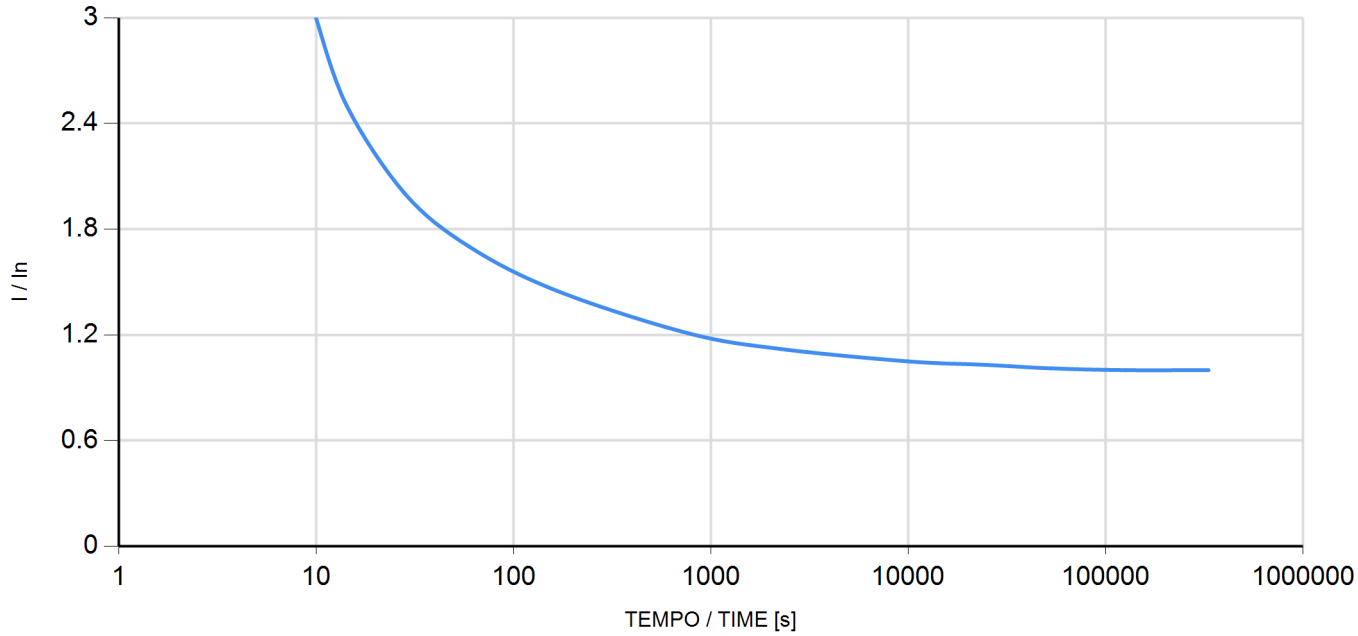
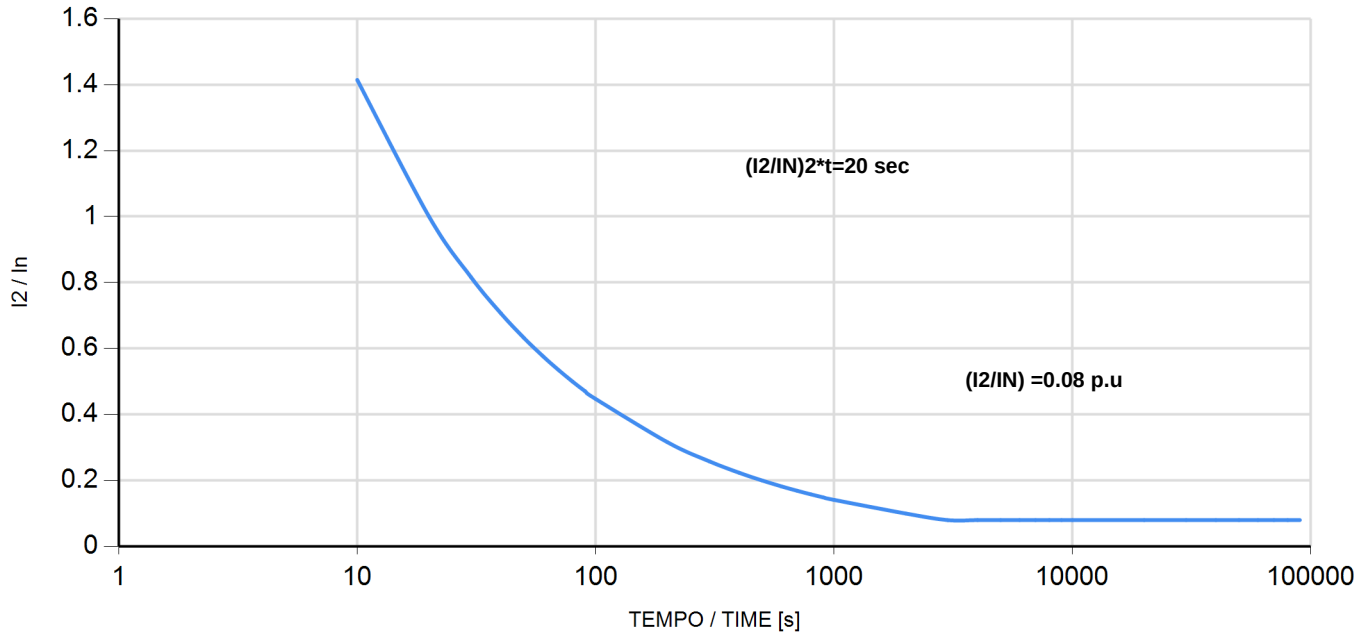
CURVA DI LIMITE TERMICO - THERMAL DAMAGE CURVE



CORRENTE SEQUENZA INVERSA - NEGATIVE SEQUENCE CURRENT



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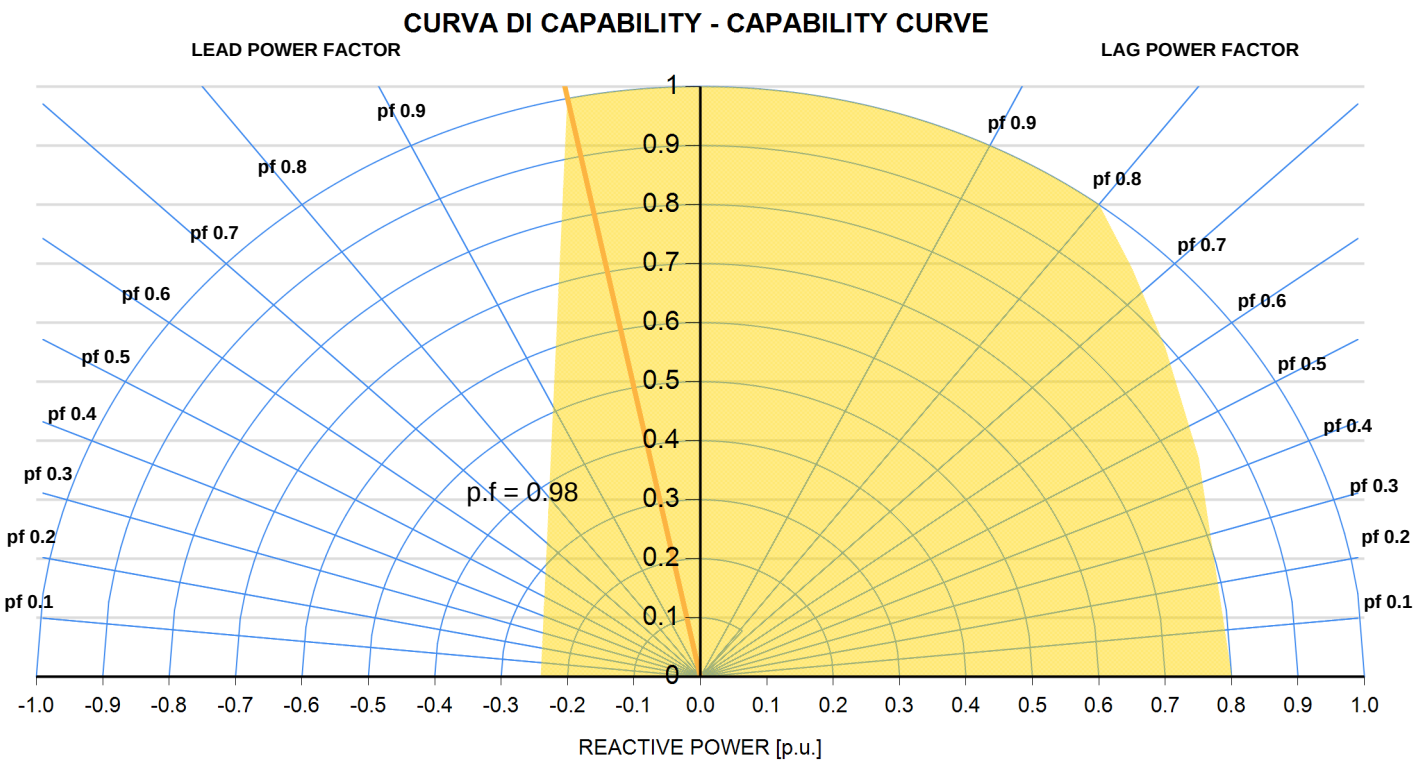


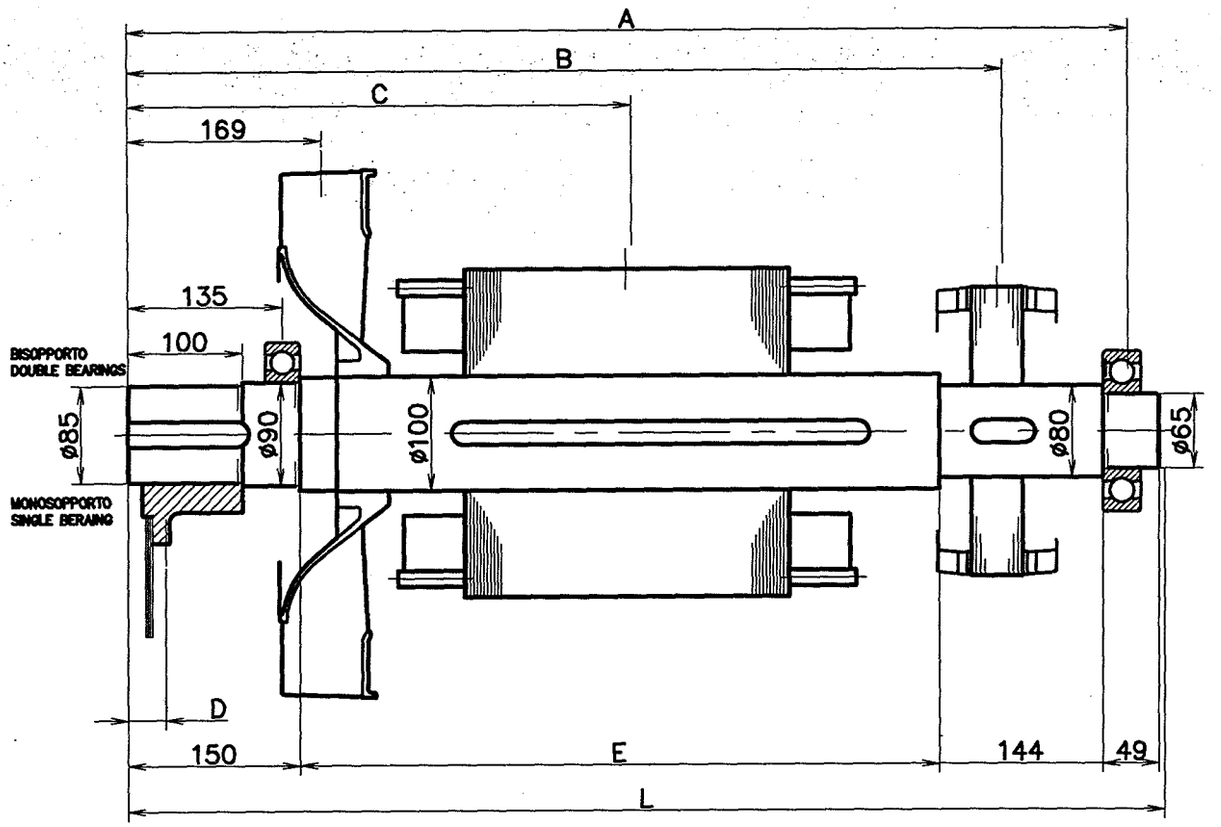
	FIRMA	DATA
DIS.	PELLIZZARI	18.09.03
CONTR./C.UFF.	PELLIZZARI	18.09.03
CONTR.NOR.	PELLIZZARI	18.09.03

Indice	Modifiche	Firma	Data	CONT./C.UFF.	CONT.NOR.

Indice	Modifiche	Firma	Data	CONT./C.UFF.	CONT.NOR.
A	MOD. DIM. ESTR. ALBERO		16.12.03		

ELEMENTI PER VERIFICHE TORSIONALI
TORSIONAL ANALYSIS DATA

DIMENSIONI IN mm
DIMENSIONS IN mm



GIUNTO COUPLING	D	kg	J kgm²
SAE 11 1/2	33	14	0.109
SAE 14	47	16	0.255

1) PER L'ESECUZIONE MONOSUPPORTO AGGIUNGERE I VALORI DEL GIUNTO PRESCELTO
$4J = PD^2$

1) FOR SINGLE BEARING BUILD ADD THE VALUES OF SELECTED COUPLING
$4J = PD^2$

TIPO TYPE	DIMENSIONI IN mm DIMENSIONS IN mm					VENTOLA FAN		ALBERO SHAFT		RUOTA POLARE MAIN CORE		ROTORE ECC. EXCITER CORE		TOTALE (1) TOTAL (1)	
	A	B	C	E	L	kg	J kgm²	kg	J kgm²	kg	J kgm²	kg	J kgm²	kg	J kgm²
MJB 250 MA4	869.5	759	435	553	901	4.3	0.105	51.7	0.06	112.7	1.167	12	0.078	180.7	1.410
MJB 250 MB4			465							132.7	1.417			200.7	1.660
MJB 250 LA4	1004.5	884	490	688	1041			59.7	0.07	151.7	1.610	16	0.104	231.7	1.889
MJB 250 LB4			510							171.7	1.780			251.7	2.059

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GENERATORI GENERATORS — MJB 250 N°4 POLI N°4 POLES

M00AV411A

Mod. NOR 305–Form.A4

INFO.D