

PRODUCT INFORMATION PACKET

Model No: E3AB3006223B30D41100

Catalog No: E3AB3006223B30D41100

Made in Italy E3AB30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 30,00kW,
3 phase, 987 RPM, D400/Y690V 50Hz, 225SM Frame B3, 6 Poles, IC411



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Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	55.9 A	Speed	987 rpm
Service Factor	1	Phase	3
Efficiency	92.9 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	225SM	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6313
UL	No	CSA	No
CE	Yes	IP Code	IP55
Number of Speeds	1		

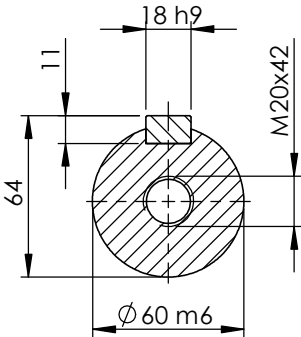
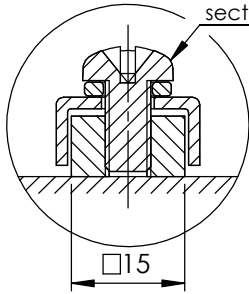
Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	Zz C3	Opp Drive End Bearing	Zz C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1071.00 mm	Frame Length	480.00 mm
Shaft Diameter	60.000 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Top		
Connection Drawing	SC-01-T-1v-1a	Outline Drawing	B3A04E8225021A01

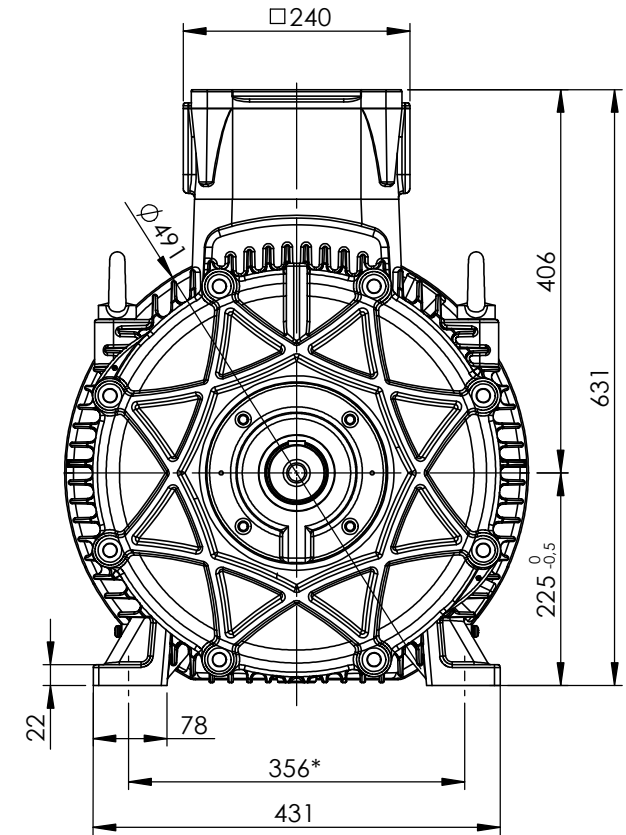
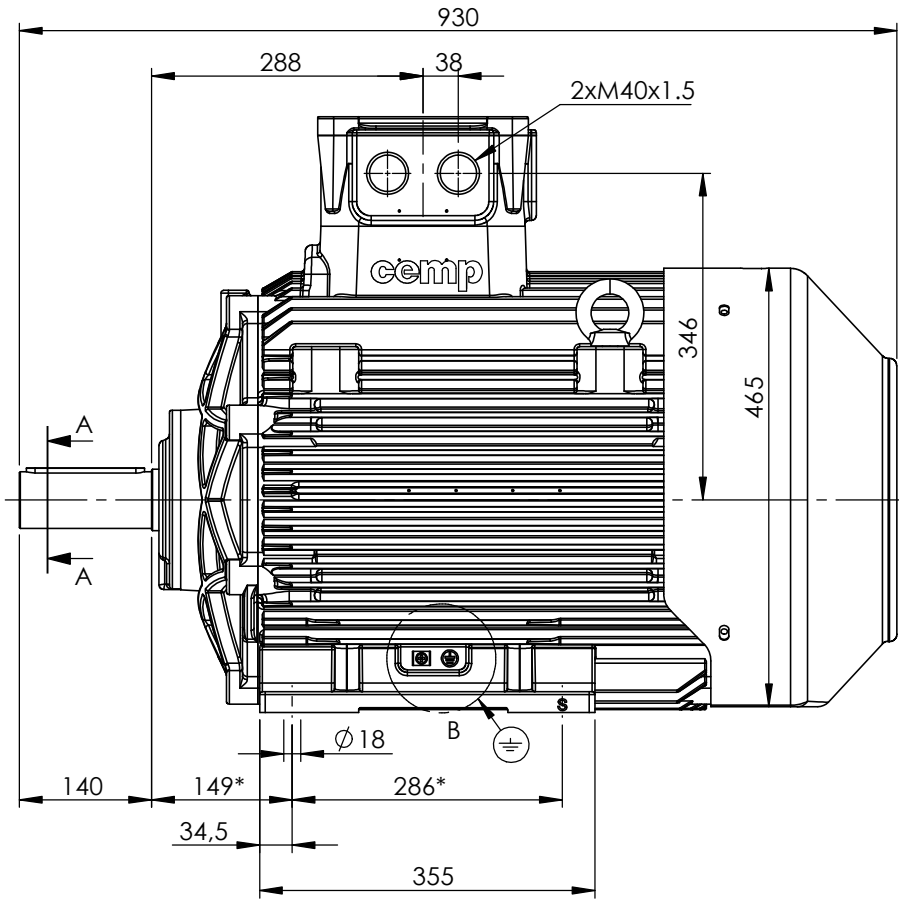
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DETAIL B
SCALE 1 : 1

Earth Terminal
suitable for cable
section 2.5-35mm²



SECTION A-A
SCALE 1 : 3



Earth terminal: 1 in the terminal box, 2 on the frame.

CUSTOMER REFERENCE AND ADDITIONAL INFORMATION:

MOTOR TYPE AND DESCRIPTION:

DRAWING REVISION	REVISION BY	DATE	TOLERANCES (EXCEPT AS NOTED) TOLERANCES: ±2 * TOLERANCES: ±0.8 DIMENSIONS ARE IN mm ACCORDING TO IEC 60072	DRAWN BY LP	 			
ECO	APPROVED BY	DATE		DATE 27/12/2016				
ECO DESCRIPTION				APPROVED BY DP	DESCRIPTION Motor A225 S/SM (S) 4-6-8P B3 IE3			
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			SERIAL NUMBER	REFERENCE	DRAWING NUMBER B3A04E8225021A01			
			FIRST ANGLE PROJECTION					

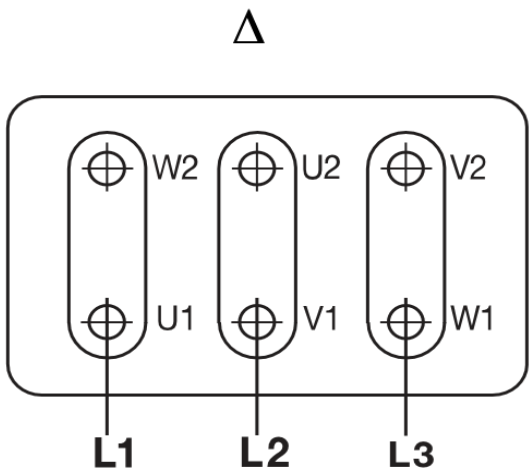
Schema di collegamento - *Connection diagram*
Schemas de branchement - *Schaltpl n*
Esquemas de conexi n



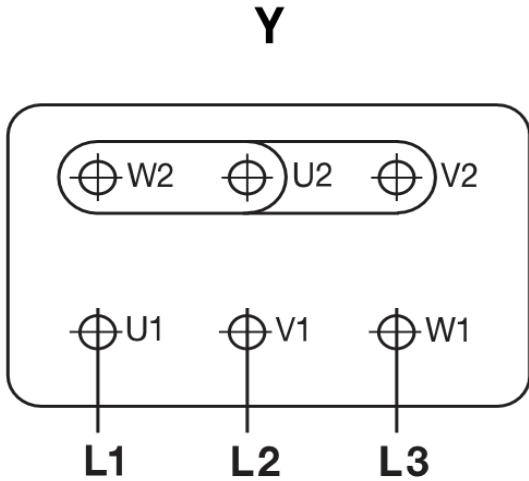
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**Motori trifase una velocit  - *Single speed, three phase motors* - Moteurs triphas  une vitesse
Drehstrommotor Eine Drehzahlstufe - Motores trif sico una velocidad**

Collegamento - *Connection* - Connexion - *Schaltung* - Conexi n



Collegamento - *Connection* - Connexion - *Schaltung* - Conexi n



L1 - L2 - L3 = Linea - *Supply* - Reseau - *Netz* - Red

Per invertire la rotazione invertire due fasi - *To change the rotation reverse two phases* - Pour changer le sens de rotation inverser deux phases - *Zur Drehrichtungs nderung zwei Phasen vertauschen* - Para invertir el sentido de rotaci n invertir dos fases

Marcatura Morsetti Ausiliari - <i>Additional terminals marking (IEC60034-8)</i>		
Marcatura <i>Marking</i>	No. morsetti <i>terminals</i>	Morsetto ausiliare per: <i>Additional terminal for:</i>
TP1A - TP2A (allarme- <i>warning</i>)	2	Termistori PTC (alta velocità) - <i>Thermistor PTC (high speed) [*]</i>
TP1B - TP2B (allarme- <i>warning</i>)	2	Termistori PTC (bassa velocità) - <i>Thermistor PTC (low speed) [*]</i>
R1 - R2 - R3 (I sensore - <i>sensor</i>)	3	Termistore PT100 3 fili - <i>Thermistor PT 100 with 3 wires</i>
R4 - R5 - R6 (II sensore - <i>sensor</i>)	3	
R7 - R8 - R9 (III sensore - <i>sensor</i>)	3	
R11 - R12 - R13 (anteriore - <i>DE</i>)	3	Termistore PT100 su cuscinetto - <i>Thermistor PT 100 on bearing</i>
R21 - R22 - R23 (posteriore - <i>NDE</i>)	3	
TB1 - TB2 (allarme- <i>warning</i>)	2	Protettore bimetallico normalmente chiuso - <i>Normally closed bi-metallic switch (**)</i>
TB3 - TB4 (intervento- <i>switch off</i>)	2	Protettore bimetallico del freno normalmente chiuso - <i>NC brake bi-metallic switch (**)</i>
TB8 - TB9 (intervento- <i>switch off</i>)	2	
TM1 - TM2 (allarme- <i>warning</i>)	2	Protettore bimetallico normalmente aperto - <i>Normally open bi-metallic switch (**)</i>
TM3 - TM4 (intervento- <i>switch off</i>)	2	
HE1- HE2	2	Resistenze riscaldanti - <i>Space heaters</i>
U1 - U2	2	Ventilazione ausiliaria monofase - <i>Single phase forced ventilation</i>
U - V - W	2	Ventilazione ausiliaria trifase - <i>Three phase forced ventilation</i>
colori secondo schema del produttore - <i>colours according manufacturer</i>	9	Encoder
CA1 - CA2	2	Condensatore - <i>Capacitor</i>
PE	1	Conduttore di terra - <i>Earth cable</i>

[*] U nominale - *U rated* = 6V - max 30V

(**) U nominale - *U rated* = 250V



FOGLIO DATI PER MOTORI ELETTRICI ASINCRONI TRIFASI : SERIE IEC
DATA SHEET FOR ASYNCHRONOUS THREEPHASE INDUCTION MOTORS: IEC SERIES

Cliente / Customer	-
Ordine cliente / Customer order	-
Item	-

Conferma ordine / Acknowledgment	N° -
Impianto / Plant	-

DATI DI PROGETTO - DESIGN DATA

Modo di protezione	II2G	Motore / Frame
Type of protection		Scatola morsetti / Terminal box
Tem. Amb. Min. / Min Amb.Temp.	-20	°C
Umidità relativa / Relative humidity	90%	
Tensione nominale / Rated Voltage	400 V ± 5%	

Ex-db IIB T4 Gb	IP55
Ex-db IIB Gb	IP55
Tem. Amb. Max. / Max Amb. Temp.	40 °C
Altitudine / Altitude	< 1000 mslm / masl
Frequenza / Frequency	50 Hz ± 2%

DATI FUNZIONALI E COSTRUTTIVI - PERFORMANCE AND CONSTRUCTION DATA

1	Quantità / Quantity					01
2	Motore tipo / Motor type					E3AB30 225SM 6
3	Numero di serie / Serial Number					-
4	Forma costruttiva / Shape					B3
5	Certificato / Certificate			TÜV CY		17 ATEX 0205845 X
6	Altro certificato / Other certificate					
Dati nominali / Rated data						
7	Poli / Pole			n°		6
8	Potenza nominale / Rated power			kW		30,00
9	Corrente nominale / Rated current			A		55,89
10	Velocità nominale / Full Load speed			1/min		987
11	Collegamento / Winding connection					D
12	Isolamento / Insulation class					F
13	Sovratemperatura / Temperature rise					80K
14	Raffreddamento / Cooling type					IC411
15	Fattore di servizio / Service factor					1
16						
17	Classe di rendimento / Efficiency level			IEC 34-30		IE3
Performances elettriche / Electrical performances						
Carico / Load			4/4	3/4	2/4	
18	Giri / Speed	1/min	987	990	994	
19	Corr. / Curr.	A	55,89	44,85	35,16	
20	Rend / Eff	%	92,9	93,0	92,2	
21	cos φ	-	0,83	0,78	0,67	
Performances all'avviamento / Starting performances						
22	Ia/In - LRC/FLC			%		680
23	Cosphi a rotore bloccato / LR power factor					0,44
	Tempo a rotore bloccato / LRWT					
24	100% Un (A caldo / Warm)			sec		10
25	(A freddo / Cold)			sec		22
26	80% Un (A caldo / Warm)			sec		15
27	(A freddo / Cold)			sec		35
	Tempo di avviamento ammissibile / ART					
28	100% Un			sec		19
29	80% Un			sec		30
Curva di coppia / Speed-torque values						
30	Coppia nominale / Rated Torque			Nm		290,28
31	Ca/Cn - LRT/FLT			%		215
32	Cmax/Cn - BDT/FLT			%		280
33						
34						
35						
Varie / Other						
36						
37						
38						
39						

Servizio / Duty			
40	Servizio / Duty type	-	S1
41	Intermittenza / Cyclic duration factor	-	-
42	Avviamenti-ora / Starting-hour	-	-
43	Tempo ciclo / Time		-
Cuscinetti / Bearings			
44	Cuscinetto ant / DE bearing	-	6313 ZZ C3
45	Cuscinetto post / NDE bearing	-	6313 ZZ C3
46	Carico radiale max / Max radial load in X1	N	5650
47	Carico assiale max / Max axial load	N	1600
48	Tipo grasso / Grease type	LGHP2 SKF or equivalent	
49	Intervallo lubrificazione / Lubrication	h	-
50	Quantità grasso / Quantity grease	gr	-
Caratteristiche meccaniche / mechanical specification			
51	Massa / Mass	kg	504,6
52	Momento d'inerzia / Moment of inertia	kgm2	0,8966
53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A)	70
54	Vibrazioni / Vibration level	IEC 34-14	A
55	Limite norma / Vibration limit	mm/sec	2,20
56			
57			
Dati entrata cavi - verniciatura / Cable entry and painting			
63	Entrata cavi / Cable entry		2xM40
64	Ciclo verniciatura / Painting cycle		STD
65	Colore finale / Final colour	RAL	5010
66			
67			
68			
69			
70			
71			
Ausiliari - Auxiliaries			
72	Sonde termiche / Temperature detector	winding	-
73	Sonde termiche / Temperature detector	bearing	-
74	Scaldiglie / Heaters	V / W	-
75	Preparation for SPM sensor		-
76	Pressacavi / Cable glands		NO
77			

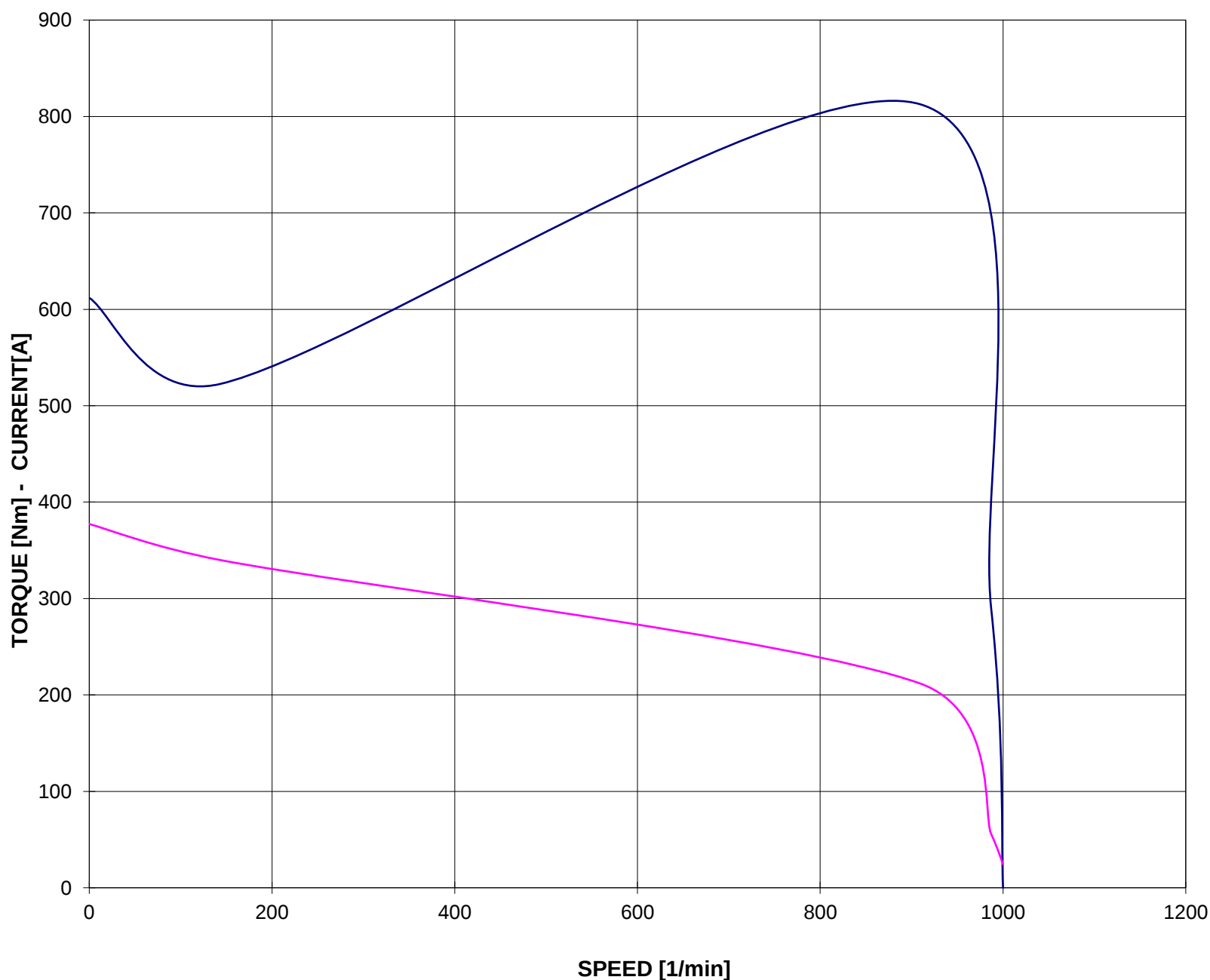
CURVA COPPIA/CORRENTE-GIRI
TORQUE/CURRENT-SPEED DIAGRAM

Cliente / Customer -
Ordine cliente / Customer order -
Impianto / Plant -
ITEM -

Conferma ordine / Acknowledgment -
Numero di serie / Serial Number -

Motore / Motor	E3AB30 225SM 6	
Potenza nominale / Rated power	30,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	55,89	A
Velocità / Speed	987	rpm
Coppia / Torque	290,28	Nm

— COPPIA - TORQUE — CORRENTE - CURRENT



Valori calcolati - Data obtained by calculation method

CURVA COPPIA/CORRENTE-GIRI (Tensione ridotta)
TORQUE/CURRENT-SPEED DIAGRAM (Reduced voltage)

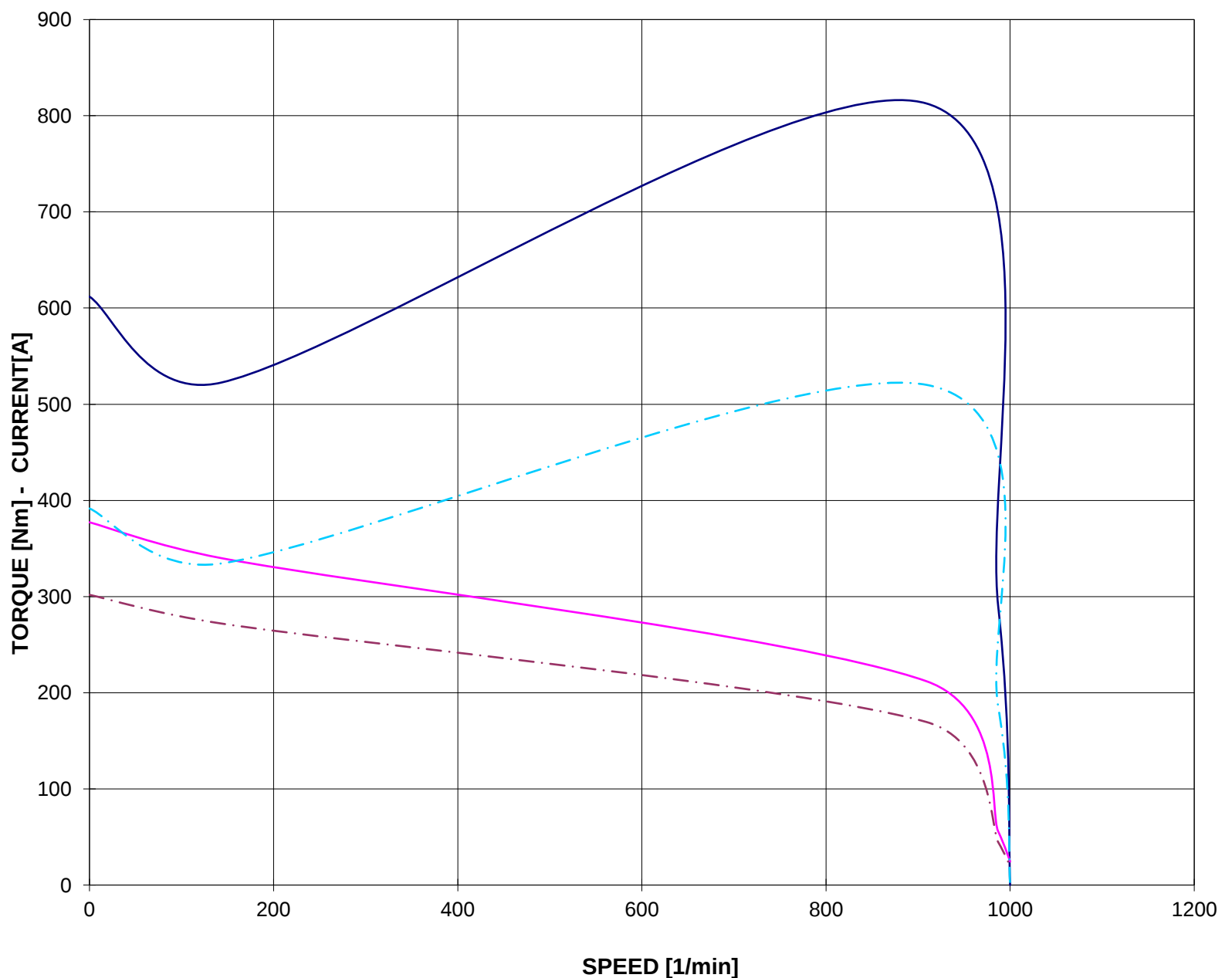
Cliente / Customer -
Ordine cliente / Customer order -
Impianto / Plant -
ITEM -

Conferma ordine / Acknowledgment -
Numero di serie / Serial Number -

Motore / Motor E3AB30 225SM 6

Potenza nominale / Rated power 30,00 kW
Poli / Pole 6
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz
Corrente / Rated current 55,89 A
Velocità / Speed 987 rpm
Coppia / Torque 290,28 Nm

— COPPIA - TORQUE — CORRENTE - CURRENT
- - - COPPIA - TORQUE 80% Un - - - CORRENTE - CURRENT 80% Un



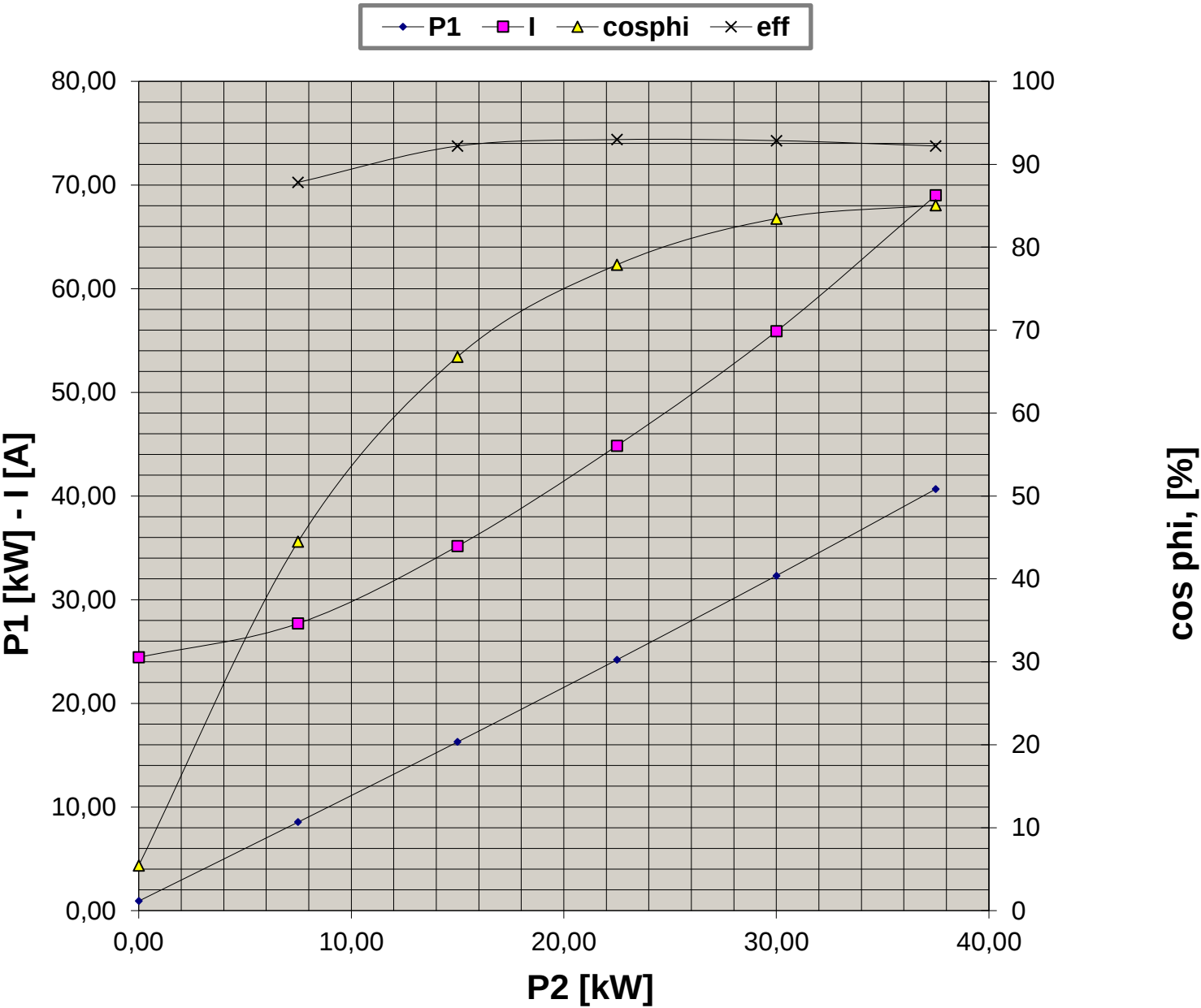
Valori calcolati - Data obtained by calculation method

CURVE CARATTERISTICHE
PERFORMANCE CURVES

Cliente / Customer -
Ordine cliente / Customer order -
Impianto / Plant -
ITEM -

Conferma ordine / Acknowledgment -
Numero di serie / Serial Number -

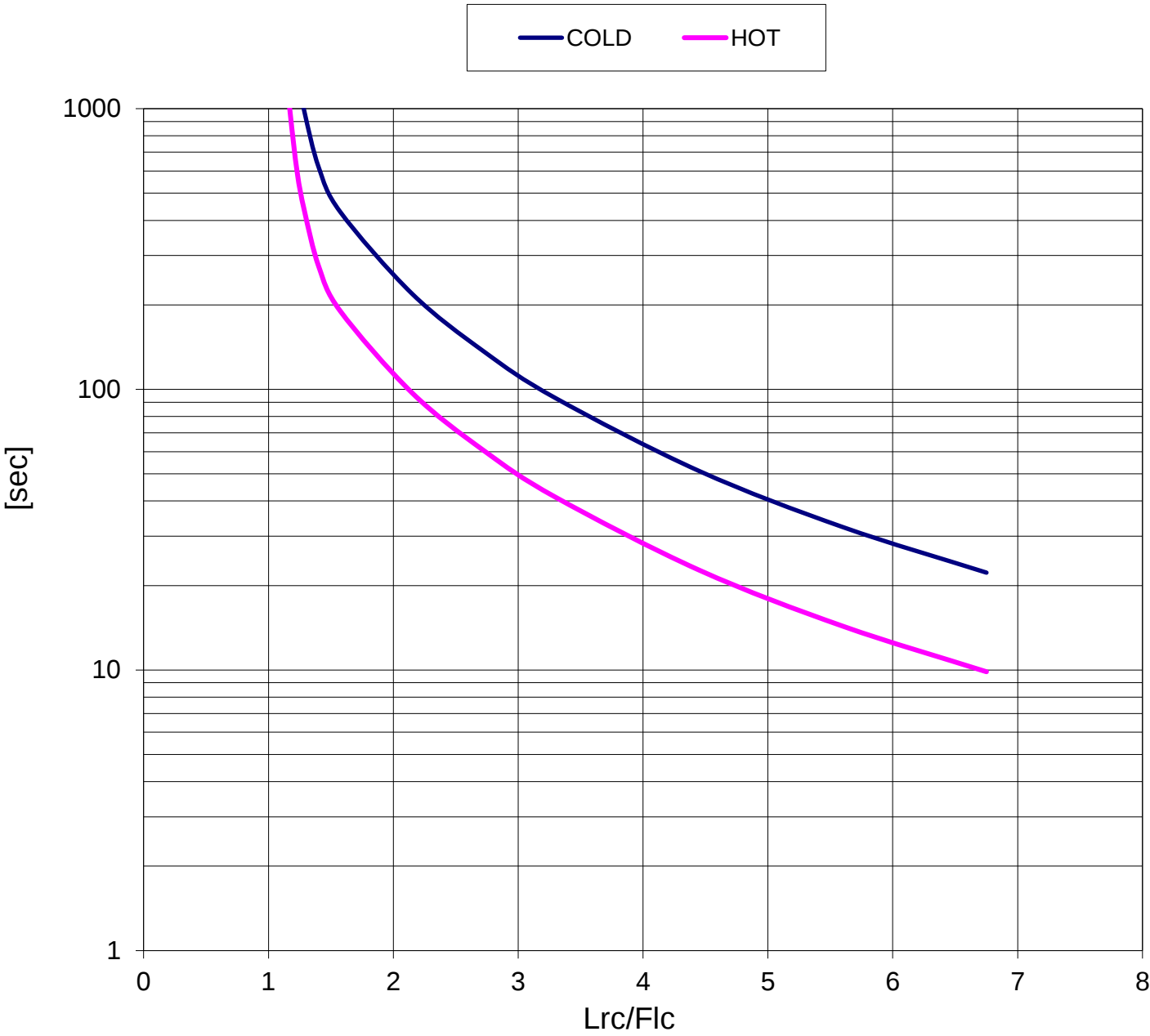
Motore / Motor **E3AB30 225SM 6**
Potenza nominale / Rated power 30,00 kW
Poli / Pole 6
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz
Corrente / Rated current 55,89 A
Velocità / Speed 987 rpm
Coppia / Torque 290,28 Nm



Valori calcolati - Data obtained by calculation method

CURVA LIMITE CORRENTE TEMPO
THERMAL WITHSTAND CURVE

Ciente / Customer	-
Ordine cliente / Customer order	-
Impianto / Plant	-
ITEM	-
Conferma ordine / Acknowledgment	-
Numero di serie / Serial Number	-
Motore / Motor	E3AB30 225SM 6
Potenza nominale / Rated power	30,00 kW
Poli / Pole	6
Tensione - Frequenza / Voltage - Frequency	400 - 50 V - Hz
Corrente / Rated current	55,89 A
Velocità / Speed	987 rpm
Coppia / Torque	290,28 Nm



Valori calcolati - Data obtained by calculation method

Data / Date 25 January 2022

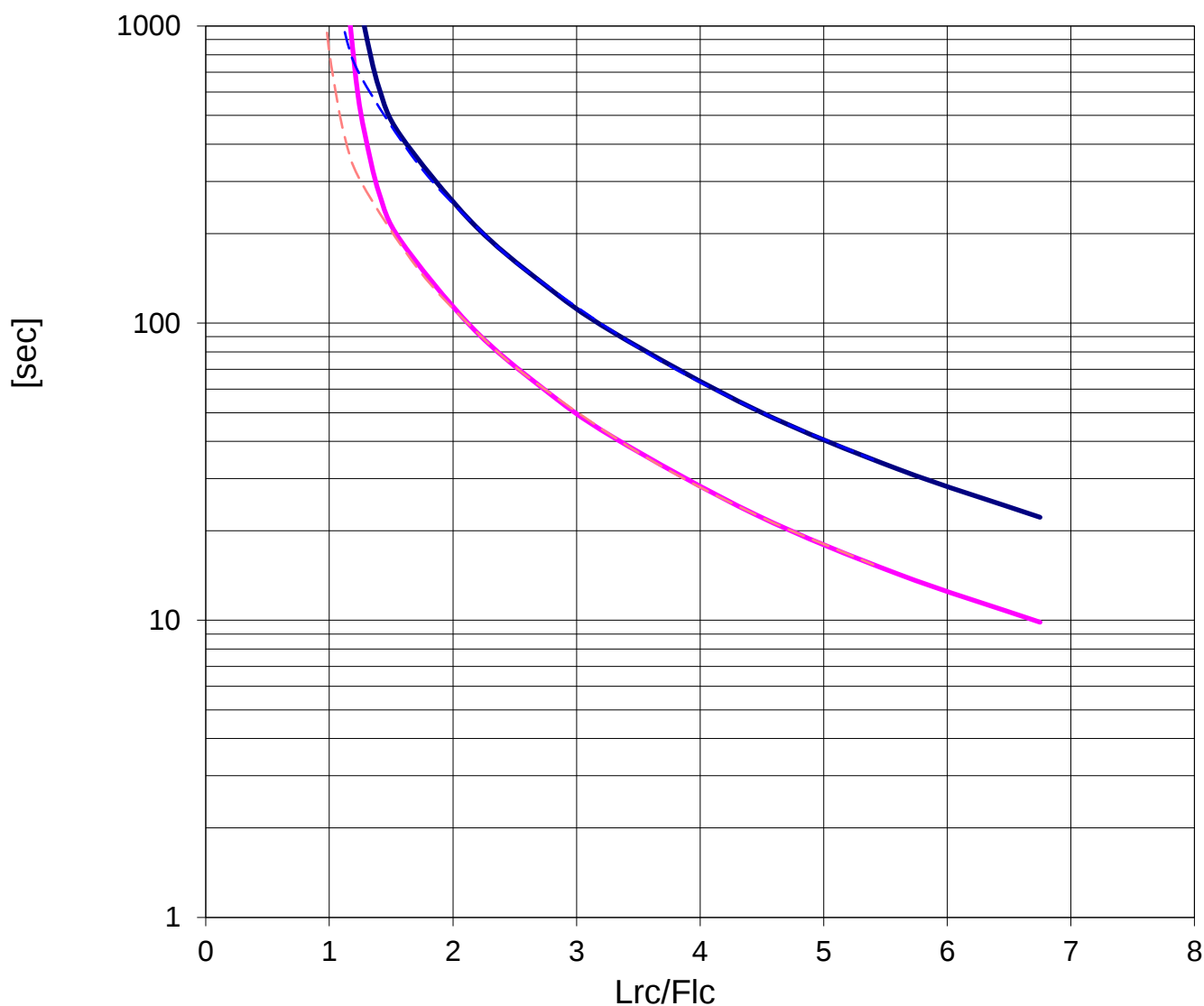
CURVA LIMITE CORRENTE TEMPO (Tensione ridotta)
THERMAL WITHSTAND CURVE (Reduced voltage)

Cliente / Customer -
Ordine cliente / Customer order -
Impianto / Plant -
ITEM -

Conferma ordine / Acknowledgment -
Numero di serie / Serial Number -

Motore / Motor	E3AB30 225SM 6	
Potenza nominale / Rated power	30,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	55,89	A
Velocità / Speed	987	rpm
Coppia / Torque	290,28	Nm

— COLD (100% Un) — HOT (100% Un) - - - COLD (80% Un) - - - HOT (80% Un)



Valori calcolati - Data obtained by calculation method