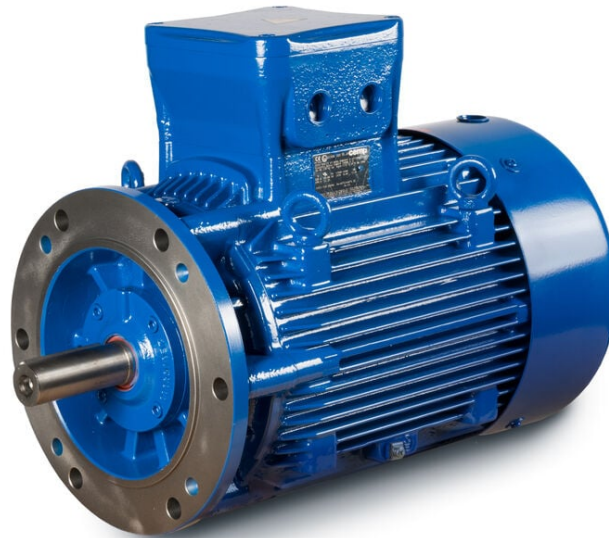


PRODUCT INFORMATION PACKET

Model No: E3AC3002207B50D41100

Catalog No: E3AC3002207B50D41100

Made in Italy E3AC30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 45,00kW,
3 phase, 2976 RPM, D400/Y690V 50Hz, 200LC Frame B5, 2 Poles, IC411, Higher Output Motor



Regal and CEMP are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

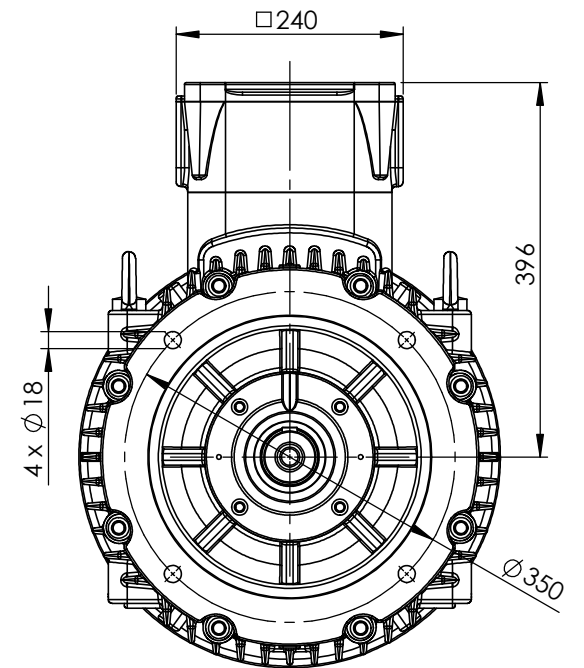
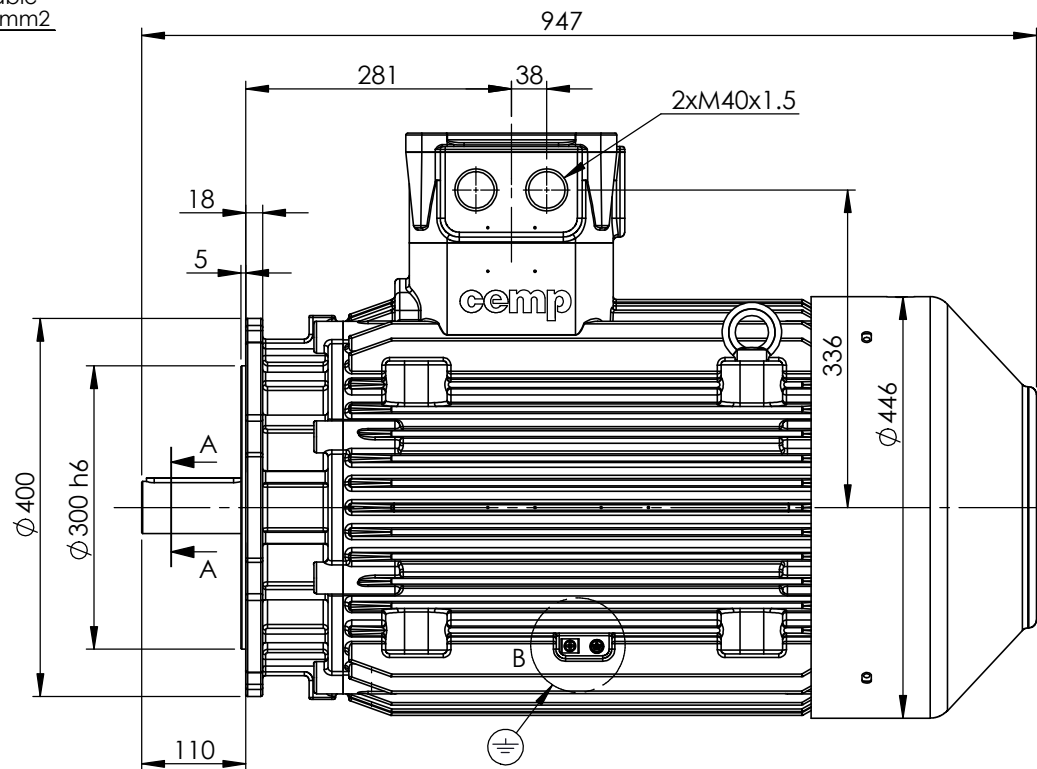
Nameplate Specifications

Phase	3	Output HP	60 Hp
Output KW	45.0 kW	Voltage	400/690 V
Speed	2976 rpm	Service Factor	1
Frame	200LC	Enclosure	Totally Enclosed Fan Cooled
Efficiency	94 %	Ambient Temperature	40 °C
Frequency	50 Hz	Current	77.9 A
Power Factor	0.89	Duty	S1
Insulation Class	F	Drive End Bearing Size	6312
Opp Drive End Bearing Size	6312	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	2	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	Zz C3	Opp Drive End Bearing	Zz C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1060.00 mm	Frame Length	525.00 mm
Shaft Diameter	55.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Top		
Outline Drawing	B5A04E8200001B01	Connection Drawing	SC-01-T-1v-1a

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:05/03/2023



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	REGAL™ cemp					
ECO	APPROVED BY	DATE			LP					
ECO DESCRIPTION					DATE	27/12/2016				
COPYRIGHT CEMP Srl ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF CEMP Srl ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.					APPROVED BY	DESCRIPTION				
				DP	Motor A200 LB/LC (L) B5 IE3					
				DATE					27/12/2016	
				REFERENCE						
SERIAL NUMBER				FIRST ANGLE PROJECTION		SIZE A4	DRAWING NUMBER	SHEET		
							B5A04E8200001B01	1 OF 2		

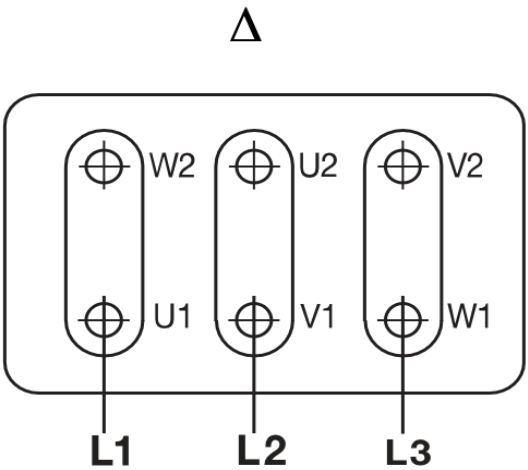
Schema di collegamento - *Connection diagram*
Schemas de branchement - *Schaltplan*
Esquemas de conexión



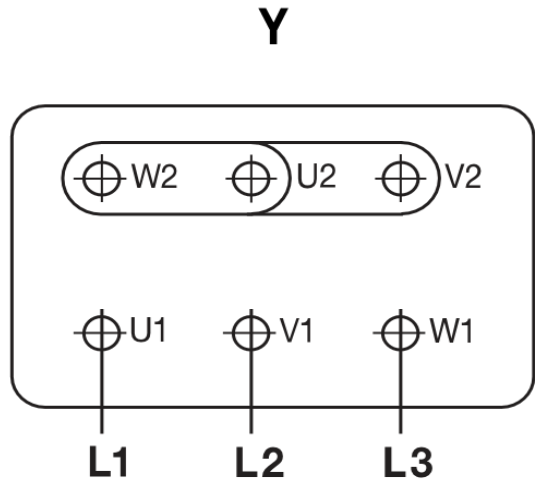
DTE 01/01/2004
SC - 01 - T - 1v.doc

**Motori trifase una velocità - *Single speed, three phase motors* - Moteurs triphasé une vitesse
Drehstrommotor Eine Drehzahlstufe - Motores trifásico una velocidad**

Collegamento - *Connection* - Connexion - *Schaltung* - Conexión



Collegamento - *Connection* - Connexion - *Schaltung* - Conexión



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 Drehrichtungsänderung zwei Phasen vertauschen* - Para invertir el sentido de rotación 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	
TB8 - TB9 (intervento- <i>switch off</i>)	2	Protettore bimetallico del freno normalmente chiuso - <i>NC brake bi-metallic switch (**)</i>
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	CEMP
Offerta / Offer : 2021.	
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 IIC T4 Gb	IP55
Ex-db IIC 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				E3AC30 200LC 2	
3	Numero di serie / Serial Number				-	
4	Forma costruttiva / Shape				B5	
5	Certificato / Certificate			TÜV CY	17 ATEX 0205845 X	
6	Altro certificato / Other certificate					
Dati nominali / Rated data						
7	Poli / Pole			n°	2	
8	Potenza nominale / Rated power			kW	45,00	
9	Corrente nominale / Rated current			A	78,74	
10	Velocità nominale / Full Load speed			1/min	2966	
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	2966	2975	2984	
19	Corr. / Curr.	A	78,74	60,50	44,32	
20	Rend / Eff	%	94,4	94,7	94,3	
21	cos φ	-	0,87	0,85	0,78	
Performances all'avviamento / Starting performances						
22	Ia/In - LRC/FLC			%	690	
23	Cosphi a rotore bloccato / LR power factor				0,38	
	Tempo a rotore bloccato / LRWT					
24	100% Un (A caldo / Warm)			sec	10	
25	(A freddo / Cold)			sec	34	
26	80% Un (A caldo / Warm)			sec	16	
27	(A freddo / Cold)			sec	53	
	Tempo di avviamento ammissibile / ART					
28	100% Un			sec	29	
29	80% Un			sec	46	
Curva di coppia / Speed-torque values						
30	Coppia nominale / Rated Torque			Nm	144,90	
31	Ca/Cn - LRT/FLT			%	215	
32	Cmax/Cn - BDT/FLT			%	310	
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	- 6312 ZZ C3
45	Cuscinetto post / NDE bearing	- 6312 ZZ C3
46	Carico radiale max / Max radial load in X1	N 4300
47	Carico assiale max / Max axial load	N 1160
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 433,5
52	Momento d'inerzia / Moment of inertia	kgm2 0,2541
53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A) 79
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
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 CEMP

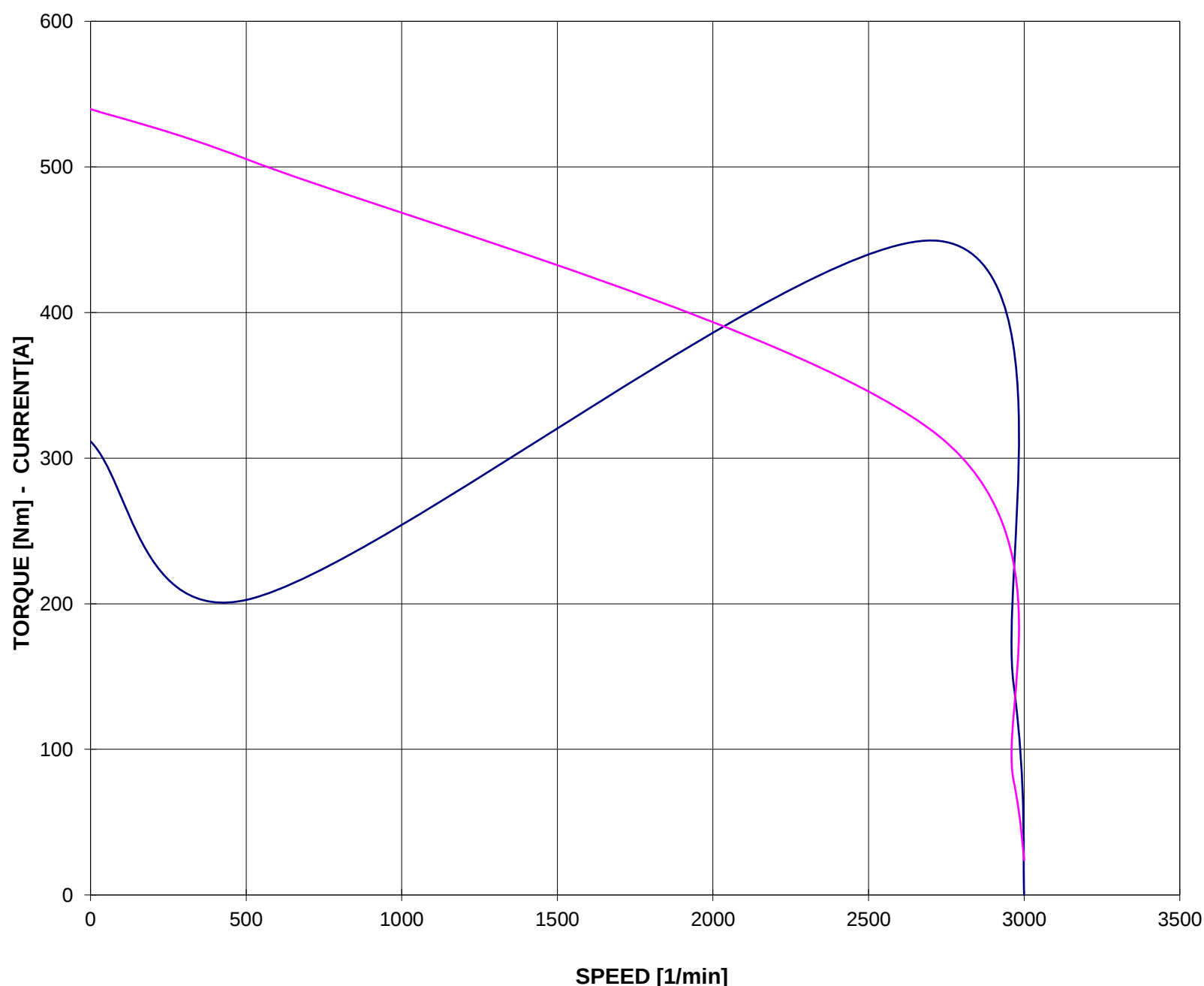
Impianto / Plant -
ITEM -

Numero d'offerta / Offer Number 2021.
-

Motore / Motor E3AC30 200LC 2

Potenza nominale / Rated power	45,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	78,74	A
Velocità / Speed	2966	rpm
Coppia / Torque	144,90	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

CEMP

Impianto / Plant

-

ITEM

-

Numero d'offerta / Offer Number

2021.

-

Motore / Motor

E3AC30 200LC 2

Potenza nominale / Rated power

45,00

kW

Poli / Pole

2

Tensione - Frequenza / Voltage - Frequency

400 - 50

V - Hz

Corrente / Rated current

78,74

A

Velocità / Speed

2966

rpm

Coppia / Torque

144,90

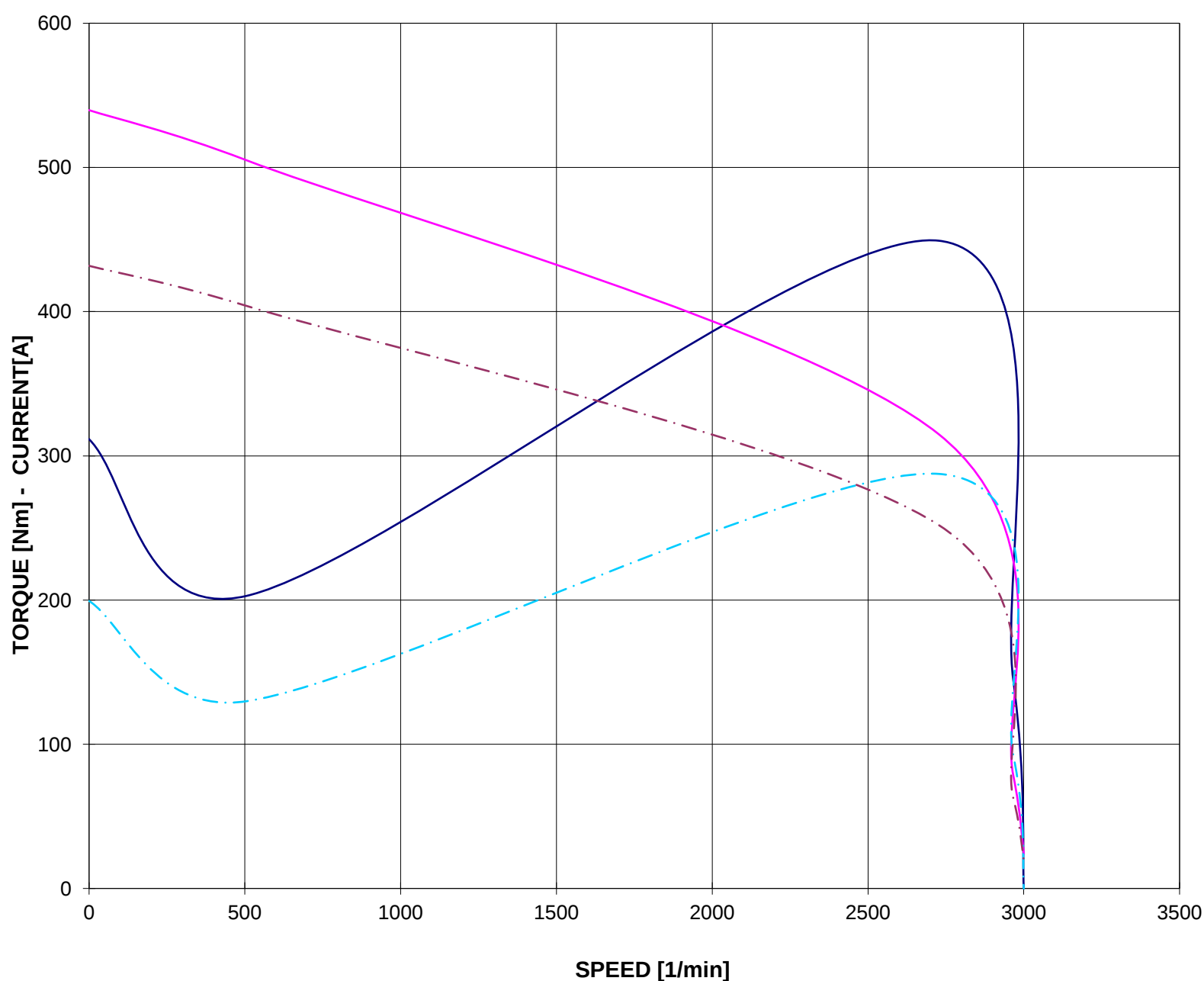
Nm

— COPPIA - TORQUE

— CORRENTE - CURRENT

- - - COPPIA - TORQUE 80% Un

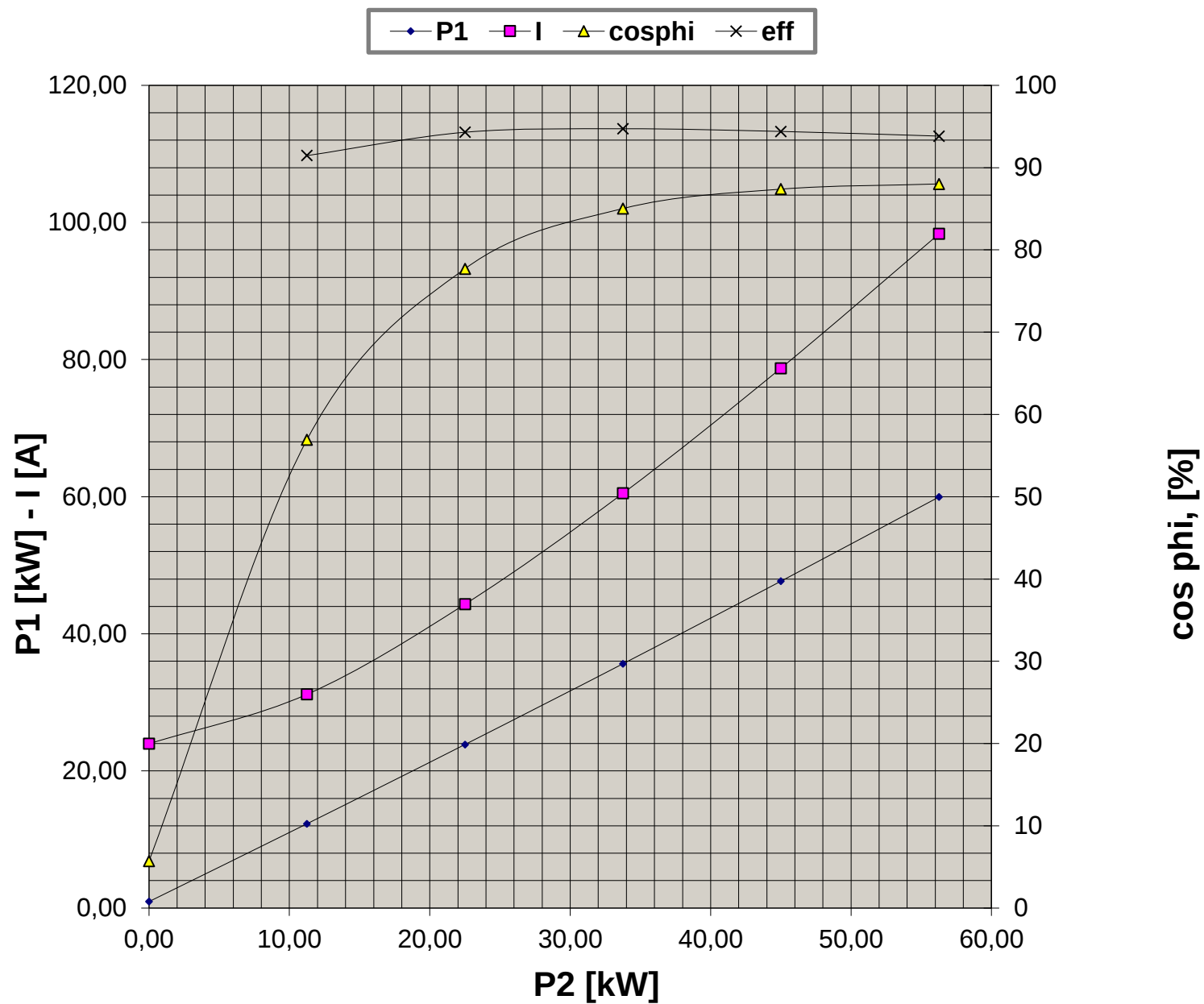
- - - CORRENTE - CURRENT 80% Un



Valori calcolati - Data obtained by calculation method

CURVE CARATTERISTICHE
PERFORMANCE CURVES

Cliente / Customer	CEMP	
Impianto / Plant	-	
ITEM	-	
Numero d'offerta / Offer Number	2021.	
	-	
Motore / Motor	E3AC30 200LC 2	
Potenza nominale / Rated power	45,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	78,74	A
Velocità / Speed	2966	rpm
Coppia / Torque	144,90	Nm



Valori calcolati - Data obtained by calculation method

Data / Date 25 January 2022

CURVA LIMITE CORRENTE TEMPO THERMAL WITHSTAND CURVE

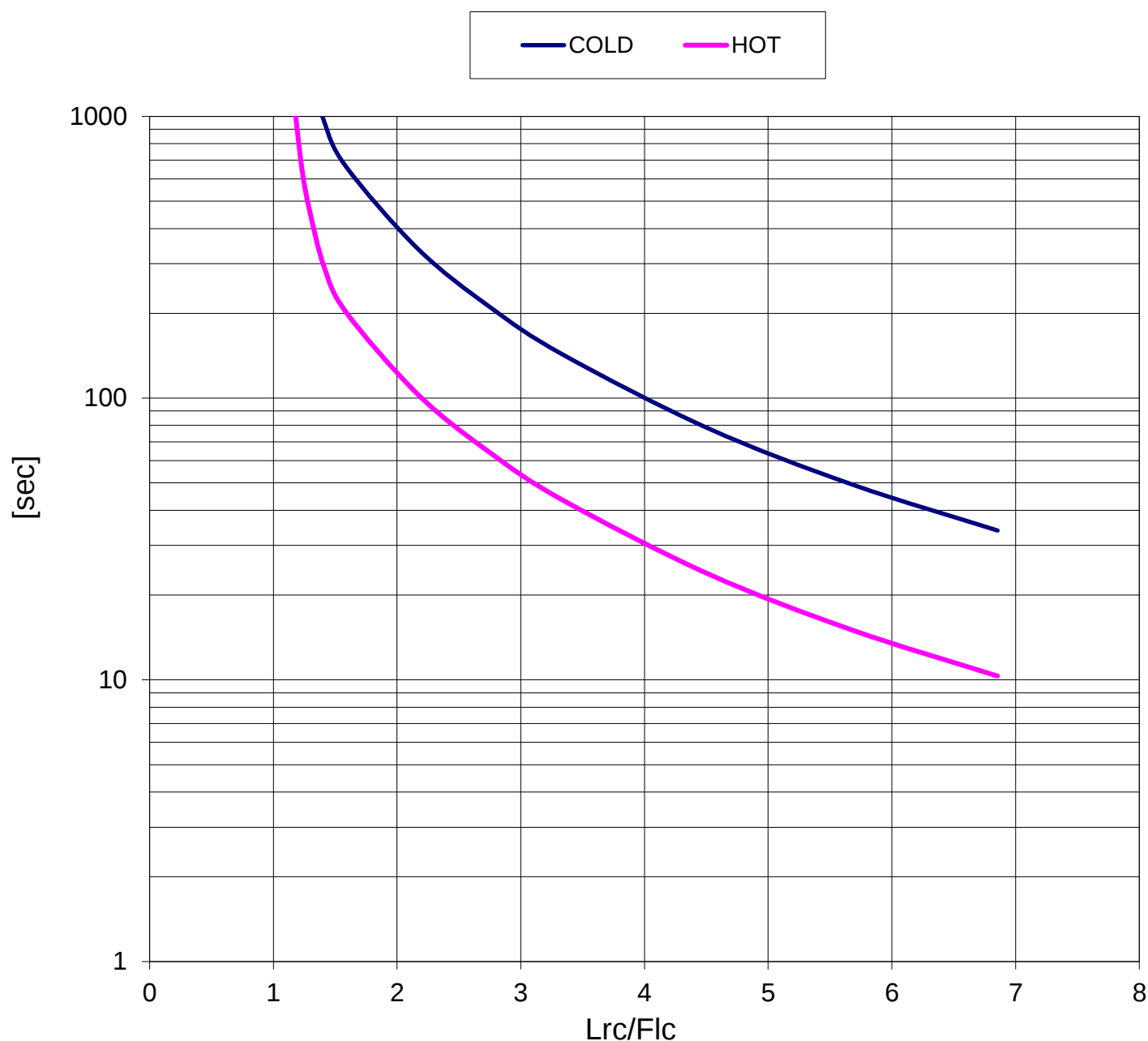
Cliente / Customer CEMP

Impianto / Plant -
ITEM -

Numero d'offerta / Offer Number 2021.
-

Motore / Motor E3AC30 200LC 2

Potenza nominale / Rated power	45,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	78,74	A
Velocità / Speed	2966	rpm
Coppia / Torque	144,90	Nm



Valori calcolati - Data obtained by calculation method

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

Cliente / Customer CEMP

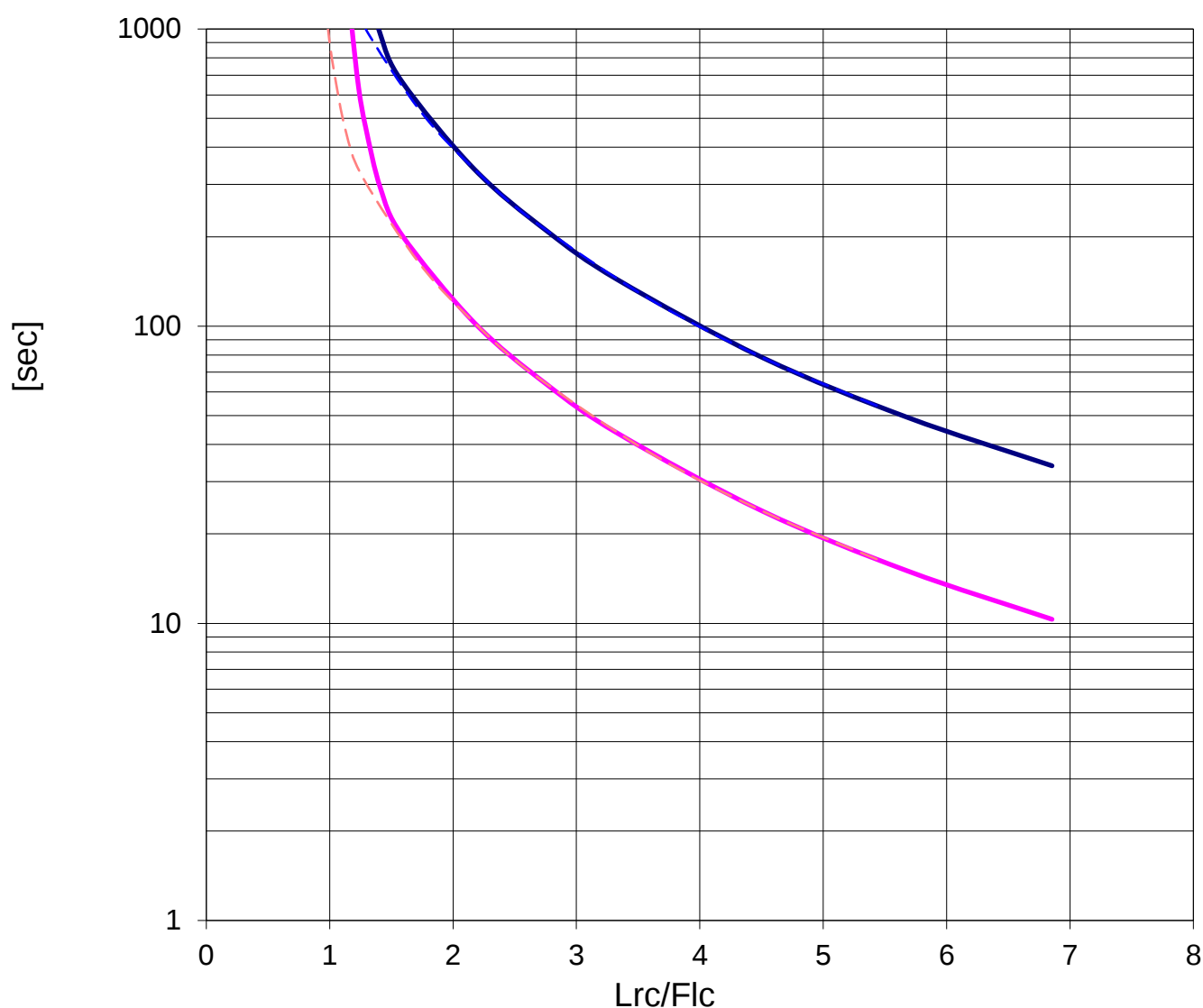
Impianto / Plant -
ITEM -

Numero d'offerta / Offer Number 2021.
-

Motore / Motor E3AC30 200LC 2

Potenza nominale / Rated power	45,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	78,74	A
Velocità / Speed	2966	rpm
Coppia / Torque	144,90	Nm

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



Valori calcolati - Data obtained by calculation method