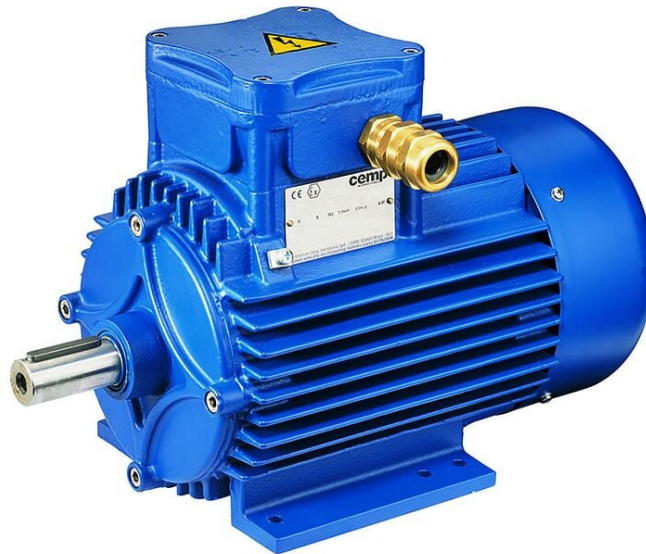


PRODUCT INFORMATION PACKET

Model No: E3AC3002071B30S41100

Catalog No: E3AC3002071B30S41100

Made in Italy E3AC30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 0,37kW,
3 phase, 2849 RPM, D230/Y400V 50Hz, 71A Frame B3, 2 Poles, IC411



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Nameplate Specifications

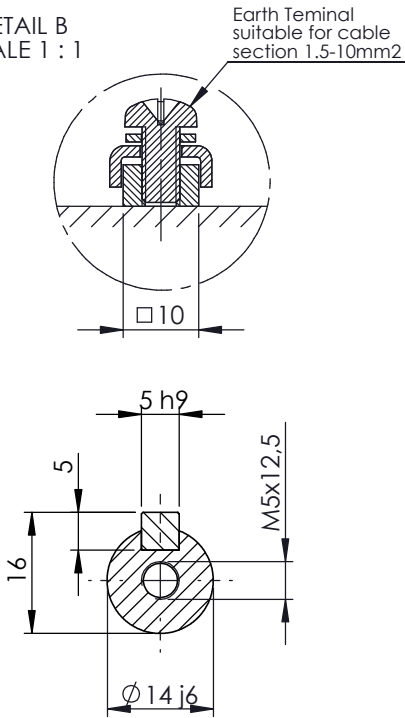
Output HP	0.50 Hp	Output KW	0.37 kW
Frequency	50 Hz	Voltage	230/400 V
Current	0.92 A	Speed	2849 rpm
Service Factor	1	Phase	3
Efficiency	73.8 %	Power Factor	0.79
Duty	S1	Insulation Class	F
Frame	71A	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	40 °C	Drive End Bearing Size	6203
Opp Drive End Bearing Size	6203	UL	No
CSA	No	CE	Yes
IP Code	IP55	Number of Speeds	1

Technical Specifications

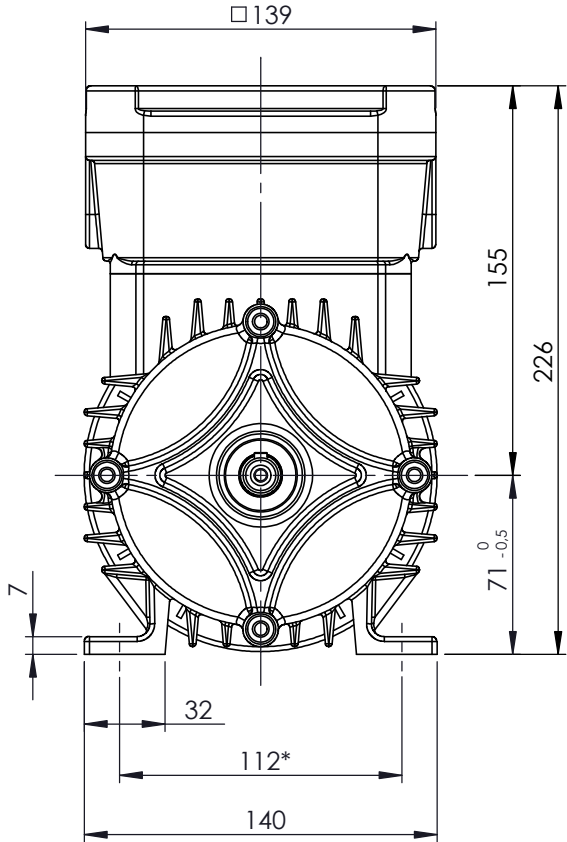
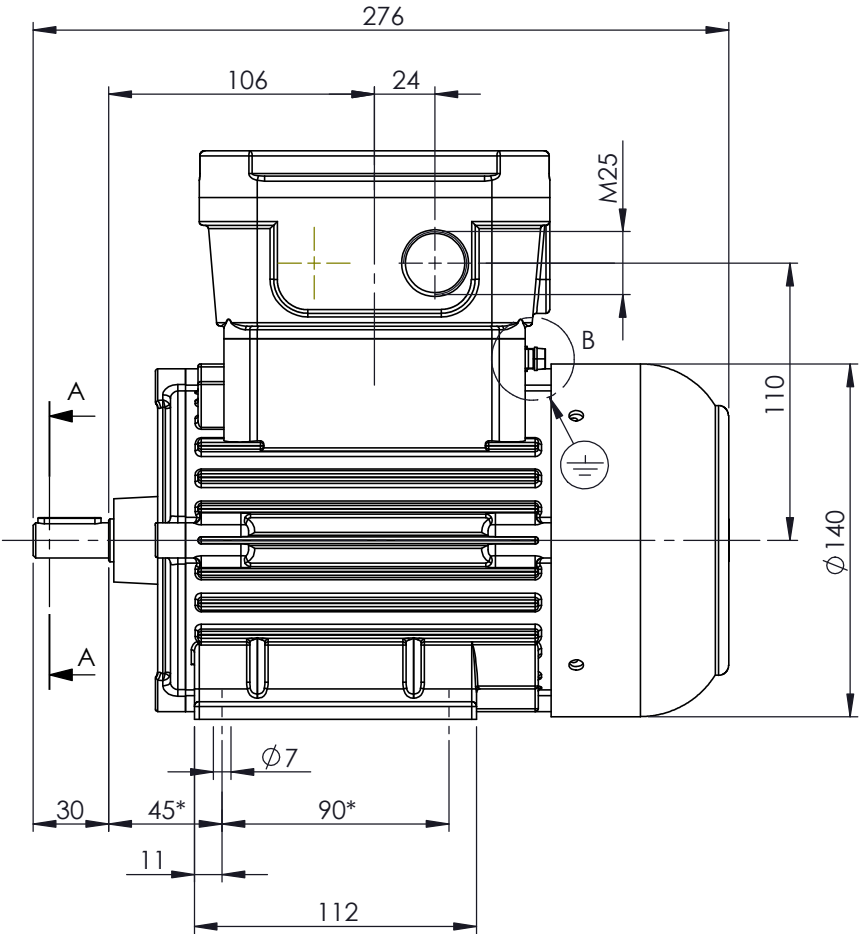
Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	Zz	Opp Drive End Bearing	Zz
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	311.00 mm	Frame Length	112.00 mm
Shaft Diameter	14.000 mm	Shaft Extension	30 mm
Assembly/Box Mounting	Top		
Outline Drawing	B3A048070001A01	Connection Drawing	SC-01-T-1v-1a

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DETAIL B
SCALE 1 : 1



SECTION A-A
SCALE 1 : 1



N.B.
Dimensions in mm. according to IEC 60072
Tolerances where not differently marked $\pm 2\text{mm}$.
* Tolerances ± 0.8

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

Customer reference and additional information:



Frame size: 71

Document N.**B3A048070001A01** - Date 28/11/2008
Issued by G.Toscano - Approved by A.Madaschi
Cemp - Senago (Italy)

Rev. Motor type and description

0

cemp
Flameproof
Motors

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
Offerta / Offer
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				AC30r 71A 2	
3	Numero di serie / Serial Number					
4	Forma costruttiva / Shape				B3	
5	Certificato / Certificate			TUV IT	14ATEX050X	
6	Altro certificato / Other certificate					
Dati nominali / Rated data						
7	Poli / Pole			n°	2	
8	Potenza nominale / Rated power			kW	0,37	
9	Corrente nominale / Rated current			A	0,92	
10	Velocità nominale / Full Load speed			1/min	2849	
11	Collegamento / Winding connection				Y	
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	2849	2892	2932	
19	Corr. / Curr.	A	0,92	0,75	0,62	
20	Rend / Eff	%	73,8	74,0	71,1	
21	cos φ	-	0,79	0,72	0,60	
Performances all'avviamento / Starting performances						
22	Ia/In - LRC/FLC			%	480	
23	Cosphi a rotore bloccato / LR power factor				0,94	
	Tempo a rotore bloccato / LRWT					
24	100% Un (A caldo / Warm)			sec	15	
25	(A freddo / Cold)			sec	34	
26	80% Un (A caldo / Warm)			sec	24	
27	(A freddo / Cold)			sec	52	
	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	1,24	
31	Ca/Cn - LRT/FLT			%	320	
32	Cmax/Cn - BDT/FLT			%	330	
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	- 6203 ZZ
45	Cuscinetto post / NDE bearing	- 6203 ZZ
46	Carico radiale max / Max radial load in X1	N 450
47	Carico assiale max / Max axial load	N 140
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 19
52	Momento d'inerzia / Moment of inertia	kgm2 0,0004
53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A) 76
54	Vibrazioni / Vibration level	IEC 34-14 A
55	Limite norma / Vibration limit	mm/sec 1,60
56		
57		
Dati entrata cavi - verniciatura / Cable entry and painting		
63	Entrata cavi / Cable entry	IEC 60423 1xM25
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		

Documento preliminare - Preliminary data sheet

Prepared by : GC

Tolleranze secondo - Tolerances according IEC 60034-1

Rev. 0

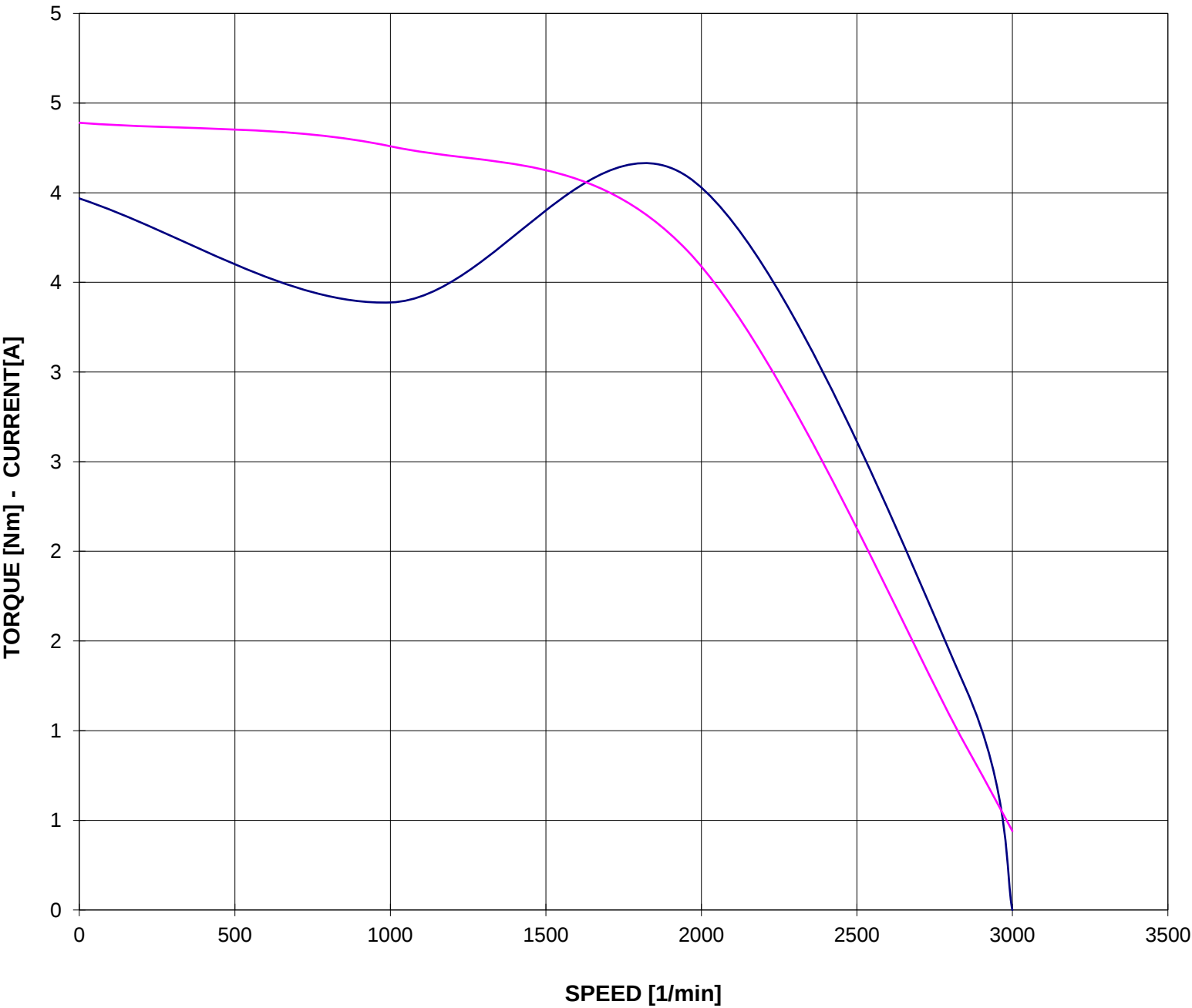
Data / Date 19 Dec 2022

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

Ciente / Customer -
Impianto / Plant -
ITEM -
Numero d'offerta / Offer Number -

Motore / Motor	AC30r 71A 2	
Potenza nominale / Rated power	0,37	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	0,92	A
Velocità / Speed	2849	rpm
Coppia / Torque	1,24	Nm

COPPIA - TORQUECORRENTE - CURRENT



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

Cliente / Customer -

Impianto / Plant -

ITEM -

Numero d'offerta / Offer Number -

Motore / Motor

AC30r 71A 2

Potenza nominale / Rated power 0,37 kW

Poli / Pole 2

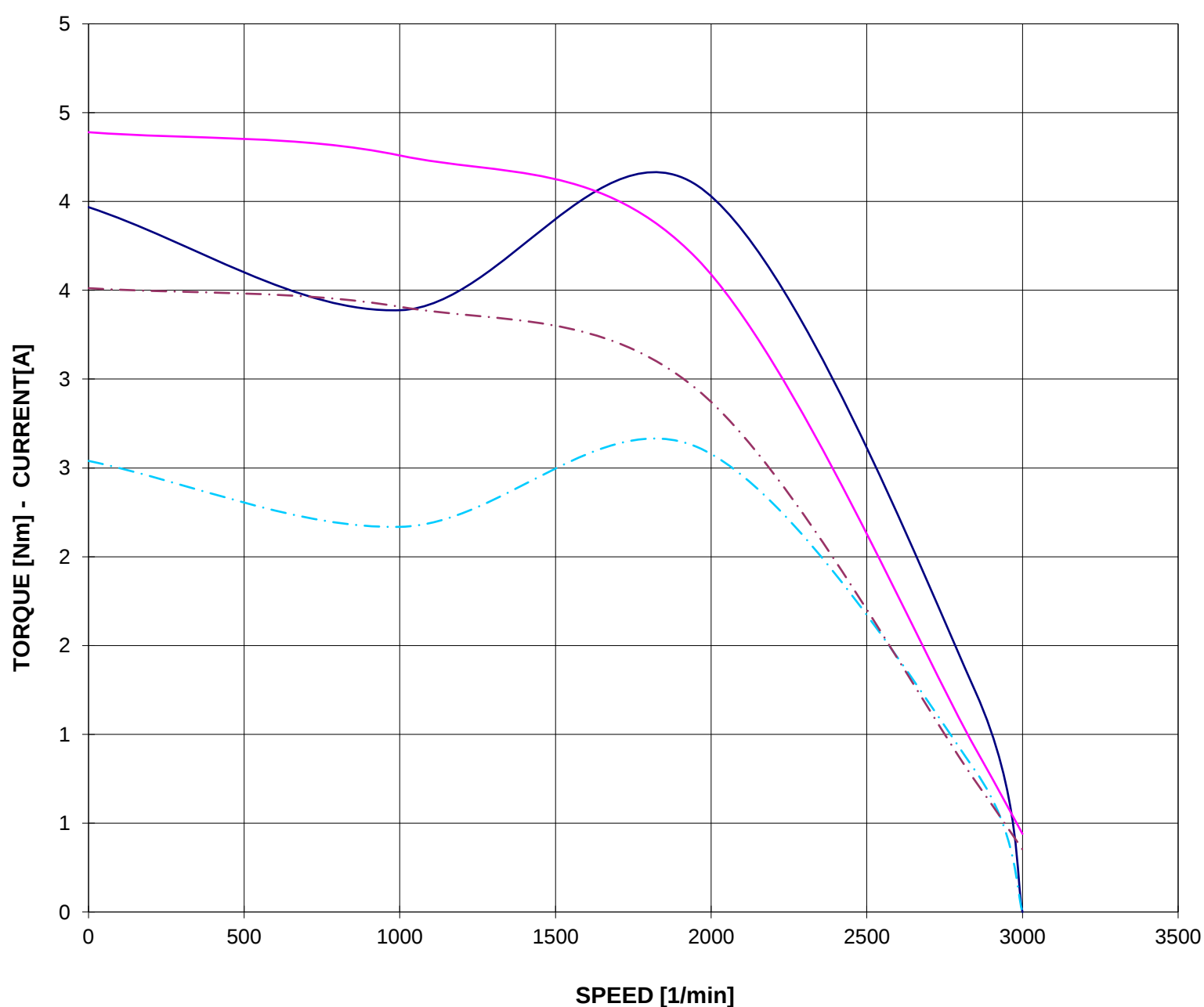
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz

Corrente / Rated current 0,92 A

Velocità / Speed 2849 rpm

Coppia / Torque 1,24 Nm

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



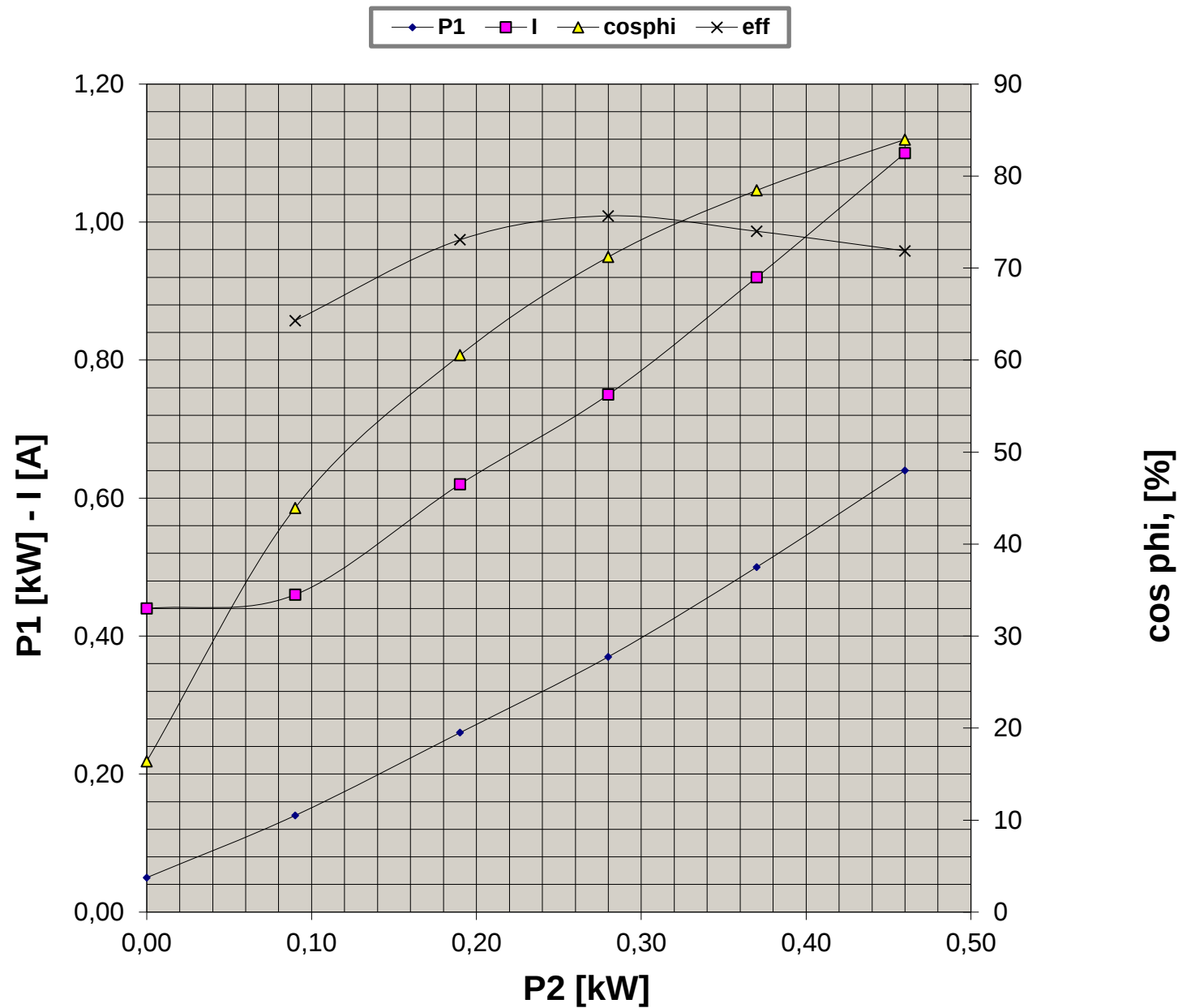
Valori calcolati - Data obtained by calculation method
Documento preliminare - Preliminary document

Data / Date 20 Dec 2022

CURVE CARATTERISTICHE
PERFORMANCE CURVES

Ciente / Customer -
Impianto / Plant -
ITEM -
Numero d'offerta / Offer Number -

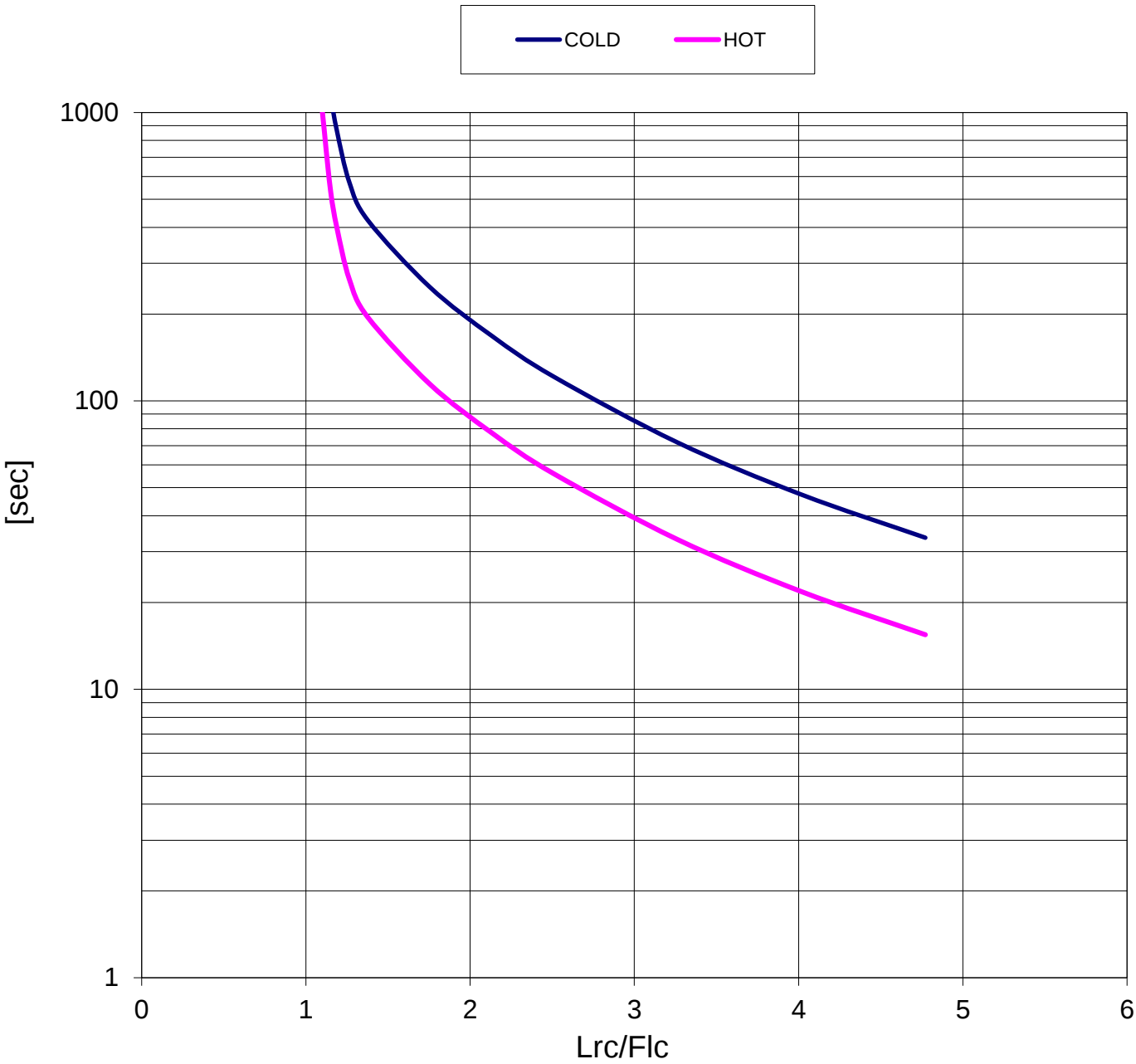
Motore / Motor	AC30r 71A 2	
Potenza nominale / Rated power	0,37	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	0,92	A
Velocità / Speed	2849	rpm
Coppia / Torque	1,24	Nm



CURVA LIMITE CORRENTE TEMPO
THERMAL WITHSTAND CURVE

Cliente / Customer -
Impianto / Plant -
ITEM -
Numero d'offerta / Offer Number -

Motore / Motor	AC30r 71A 2	
Potenza nominale / Rated power	0,37	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	0,92	A
Velocità / Speed	2849	rpm
Coppia / Torque	1,24	Nm

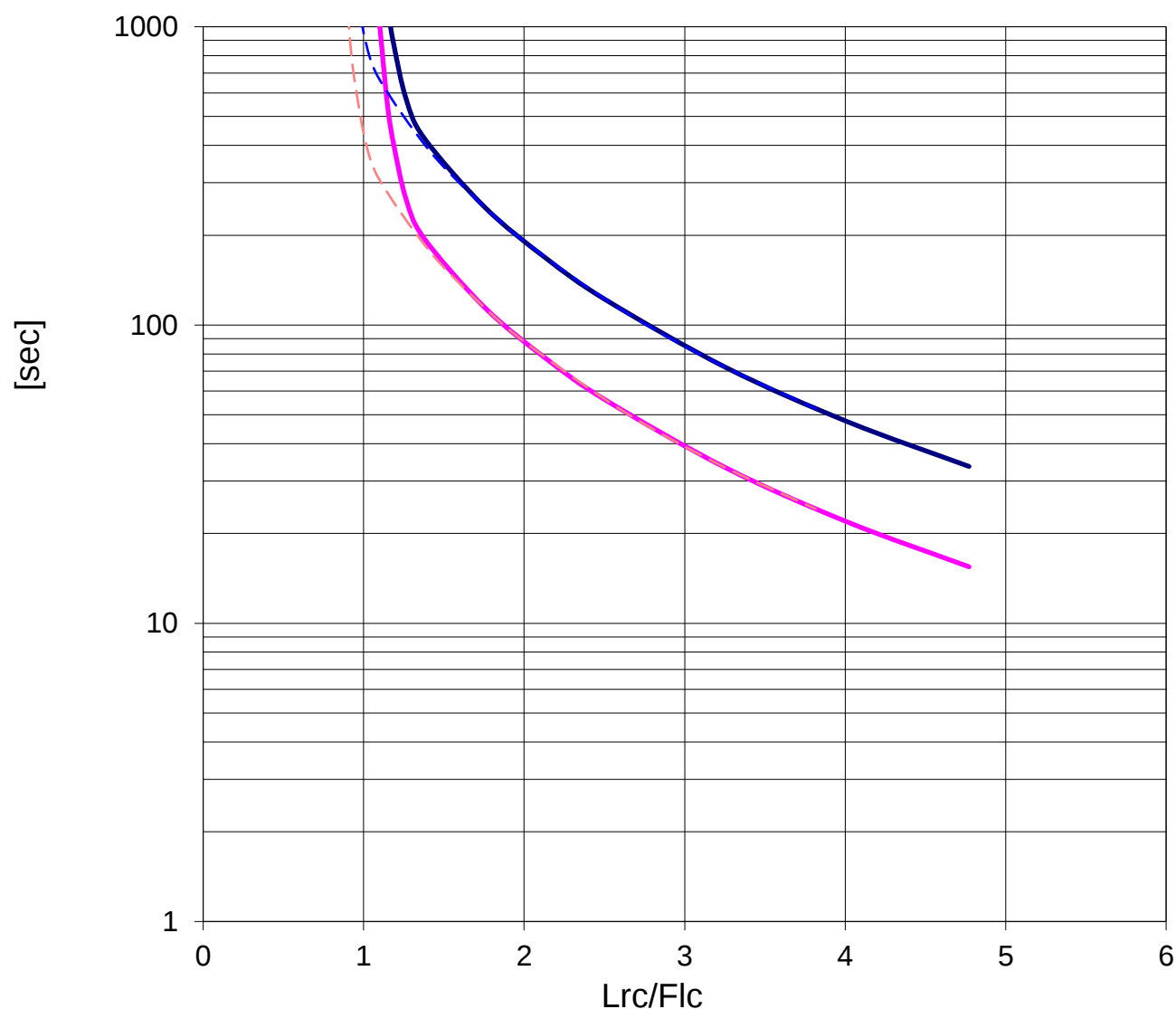


CURVA LIMITE CORRENTE TEMPO (Tensione ridotta)
THERMAL WITHSTAND CURVE (Reduced voltage)

Ciente / Customer -
Impianto / Plant -
ITEM -
Numero d'offerta / Offer Number -

Motore / Motor **AC30r 71A 2**
Potenza nominale / Rated power 0,37 kW
Poli / Pole 2
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz
Corrente / Rated current 0,92 A
Velocità / Speed 2849 rpm
Coppia / Torque 1,24 Nm

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



Valori calcolati - Data obtained by calculation method
Documento preliminare - Preliminary document

Data / Date 20 Dec 2022