

# PRODUCT INFORMATION PACKET

Model No: E3TI3002201B30D41100

Catalog No: E3TI3002201B30D41100

Made in Italy TCI Series, General Purpose Low Voltage IEC motor, Safe Area, 30,00 kW, 3 phase,  
2973 RPM, D400/Y690V 50Hz, 200LA Frame B3, 2 Poles, IC411



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

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E

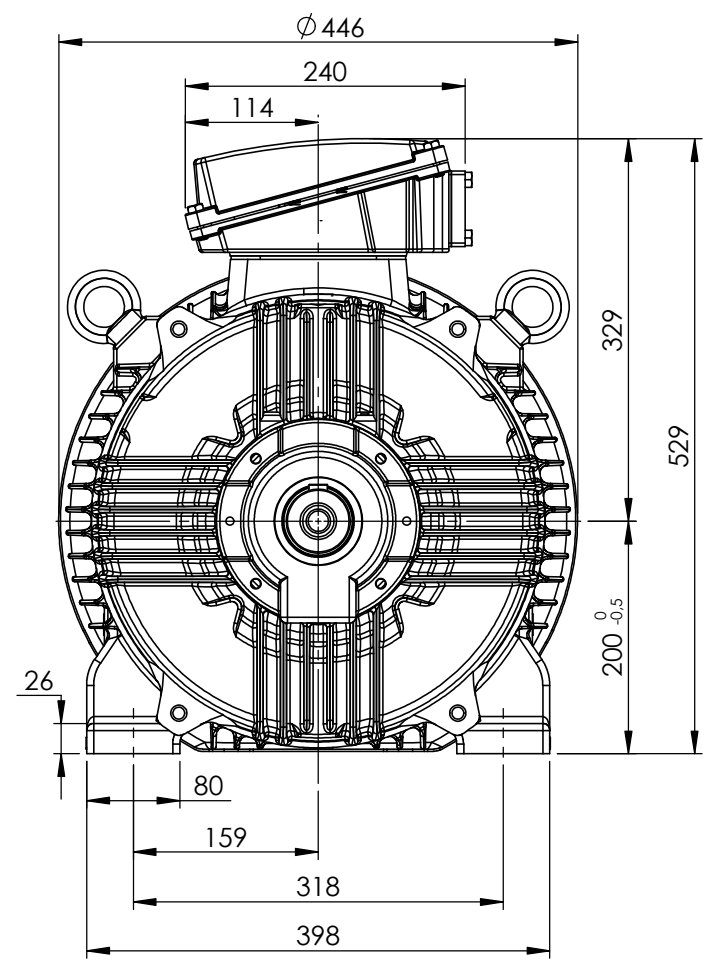
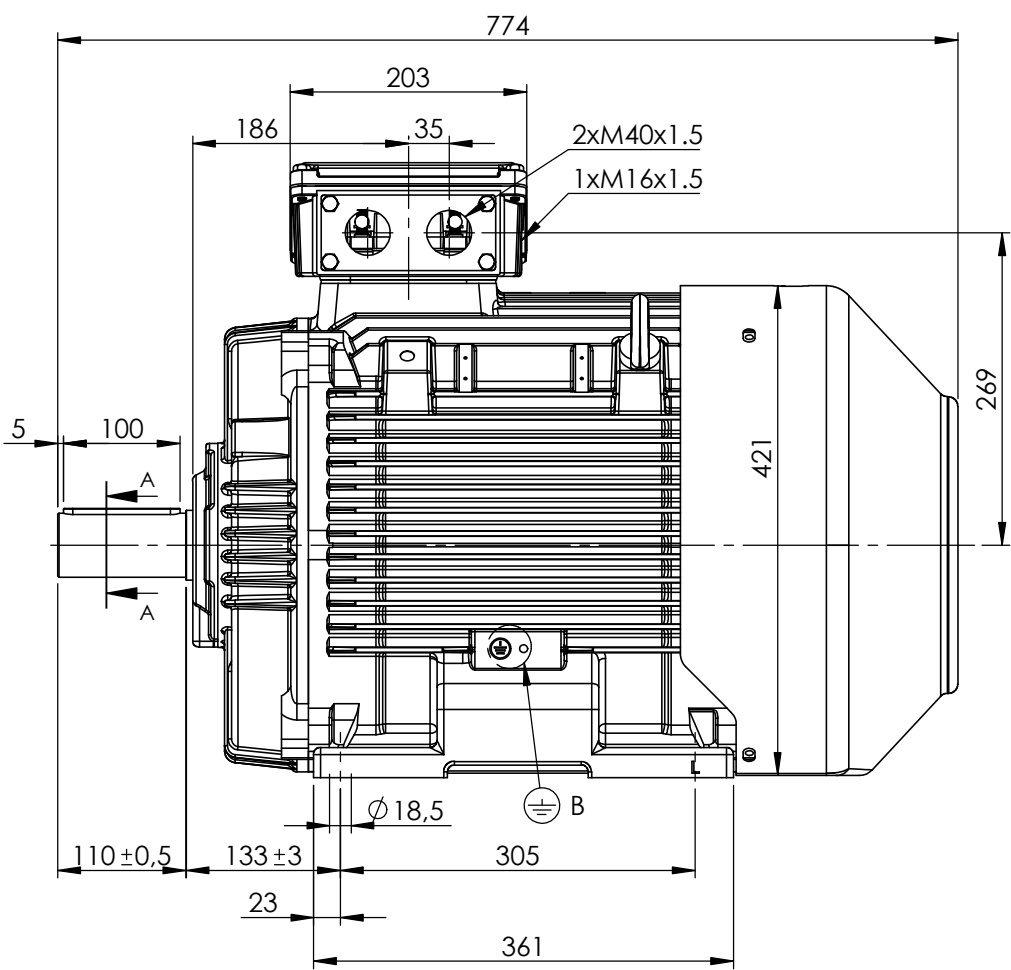
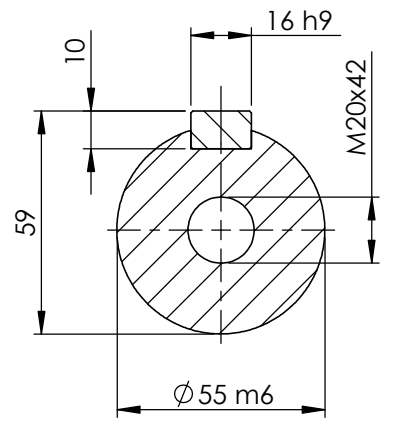
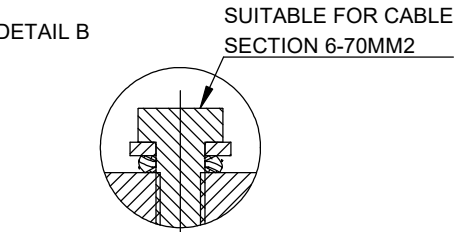
### Nameplate Specifications

Output HP	<b>40 Hp</b>	Output KW	<b>30.0 kW</b>
Frequency	<b>50 Hz</b>	Voltage	<b>400/690 V</b>
Current	<b>54.3 A</b>	Speed	<b>2973 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>93.3 %</b>	Power Factor	<b>0.85</b>
Duty	<b>S1</b>	Insulation Class	<b>F</b>
Frame	<b>200LA</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6312</b>	Opp Drive End Bearing Size	<b>6212</b>
UL	<b>No</b>	CSA	<b>No</b>
CE	<b>Yes</b>	IP Code	<b>IP55</b>
Number of Speeds	<b>1</b>	Efficiency Class	<b>IE3</b>

### Technical Specifications

Electrical Type	<b>Squirrel Cage</b>	Starting Method	<b>Direct On Line</b>
Poles	<b>2</b>	Rotation	<b>Bi-Directional</b>
Mounting	<b>B3</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>C3</b>	Opp Drive End Bearing	<b>C3</b>
Frame Material	<b>Cast Iron</b>	Shaft Type	<b>Keyed</b>
Overall Length	<b>769.00 mm</b>	Frame Length	<b>370.00 mm</b>
Shaft Diameter	<b>55.000 mm</b>	Shaft Extension	<b>110 mm</b>
Assembly/Box Mounting	<b>Top</b>		
Outline Drawing	<b>B3A04T8200001A01</b>	Connection Drawing	<b>SC-01-T-1v-1a</b>

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:12/02/2022



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

CUSTOMER REFERENCE AND ADDITIONAL INFORMATION:

MOTOR TYPE AND DESCRIPTION:

DRAWING REVISION 1	REVISION BY MT	DATE 26/04/2022
ECO	APPROVED BY LP	DATE 27/04/2022
ECO DESCRIPTION		
<p>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.</p>		

TOLERANCES (EXCEPT AS NOTED) TOLERANCES: ±2 * TOLERANCES: ±0.8
DIMENSIONS ARE IN mm ACCORDING TO IEC 60072
SERIAL NUMBER

DRAWN BY TN
DATE 15/11/2021
APPROVED BY LP
DATE 16/11/2021
REFERENCE
FIRST ANGLE PROJECTION

DESCRIPTION <b>Motor 200 TC (L) B3</b>	
SIZE <b>A4</b>	DRAWING NUMBER <b>B3A04T8200001A01</b>
SHEET 1 OF 2	

Schema di collegamento - *Connection diagram*  
Schemas de branchement - *Schaltplän*  
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**



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

<b>Marcatura Morsetti Ausiliari - <i>Additional terminals marking (IEC60034-8)</i></b>		
<b>Marcatura <i>Marking</i></b>	<b>No. morsetti <i>terminals</i></b>	<b>Morsetto ausiliare per: <i>Additional terminal for:</i></b>
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



Flameproof  
Motors

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		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 +/- 10%	

	IP55
	IP55
Tem. Amb. Max. / Max Amb. Temp.	40 °C
Altitudine / Altitude	< 1000 mslm / masl
Frequenza / Frequency	50 Hz +/- 3%

**DATI FUNZIONALI E COSTRUTTIVI - PERFORMANCE AND CONSTRUCTION DATA**

1	Quantità / Quantity		01
2	Motore tipo / Motor type		TCI 200LA2
3	Numero di serie / Serial Number		
4	Forma costruttiva / Shape		B3
5			
6			
<b>Dati nominali / Rated data</b>			
7	Poli / Pole	n°	2
8	Potenza nominale / Rated power	kW	30,00
9	Corrente nominale / Rated current	A	54,35
10	Velocità nominale / Full Load speed	1/min	2973
11	Collegamento / Winding connection		D
12	Isolamento / Insulation class		F
13	Sovratemperatura / Temperature rise		DT80K
14	Raffreddamento / Cooling type		IC411
15	Fattore di servizio / Service factor		1
16			
17	Classe di rendimento / Efficiency level	IEC 34-30	IE3
<b>Performances elettriche / Electrical performances</b>			
Carico / Load		4/4	3/4
18	Giri / Speed	1/min	2973
19	Corr. / Curr.	A	54,35
20	Rend / Eff	%	93,3
21	cos φ	-	0,86
<b>Performances all'avviamento / Starting performances</b>			
22	Ia/In - LRC/FLC	%	750
23	Cosphi a rotore bloccato / LR power factor		0,37
Tempo a rotore bloccato / LRWT			
24	100% Un (A caldo / Warm)	sec	6
25	(A freddo / Cold)	sec	16
26	80% Un (A caldo / Warm)	sec	9
27	(A freddo / Cold)	sec	25
Tempo di avviamento ammissibile / ART			
28	100% Un	sec	14
29	80% Un	sec	21
<b>Curva di coppia / Speed-torque values</b>			
30	Coppia nominale / Rated Torque	Nm	96,37
31	Ca/Cn - LRT/FLT	%	215
32	Cmax/Cn - BDT/FLT	%	335
33			
34			
35			
<b>Varie / Other</b>			
36			
37			
38			
39			

<b>Servizio / Duty</b>			
40	Servizio / Duty type	-	S1
41	Intermittenza / Cyclic duration factor	-	-
42	Avviamenti-ora / Starting-hour	-	-
43	Tempo ciclo / Time		-
<b>Cuscinetti / Bearings</b>			
44	Cuscinetto ant / DE bearing	-	6312 C3
45	Cuscinetto post / NDE bearing	-	6212 C3
46	Carico radiale max / Max radial load in X1	N	3755
47	Carico assiale max / Max axial load	N	2720
48	Tipo grasso / Grease type		LGHP2 SKF or equivalent
49	Intervallo lubrificazione / Lubrication	h	3000
50	Quantità grasso / Quantity grease	gr	22
<b>Caratteristiche meccaniche / mechanical specification</b>			
51	Massa / Mass	kg	272
52	Momento d'inerzia / Moment of inertia	kgm2	0,2356
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			
58			
59			
60			
61			
62			
<b>Dati entrata cavi - verniciatura / Cable entry and painting</b>			
63	Entrata cavi / Cable entry	IEC 60423	2xM40+1xM16
64	Ciclo verniciatura / Painting cycle		STD
65	Colore finale / Final colour	RAL	5010
66			
67			
68			
69			
70			
71			
<b>Ausiliari - Auxiliaries</b>			
72	Sonde termiche / Temperature detector	winding	PTC
73	Sonde termiche / Temperature detector	bearing	-
74	Scaldiglie / Heaters	V / W	-
75	Preparation for SPM sensor		-
76	Pressacavi / Cable glands		-
77			

**Documento preliminare - Preliminary data sheet**

Prepared by : RP

Tolleranze secondo - Tolerances according IEC 60034-1

Rev. 0

Data / Date 1 February 2021

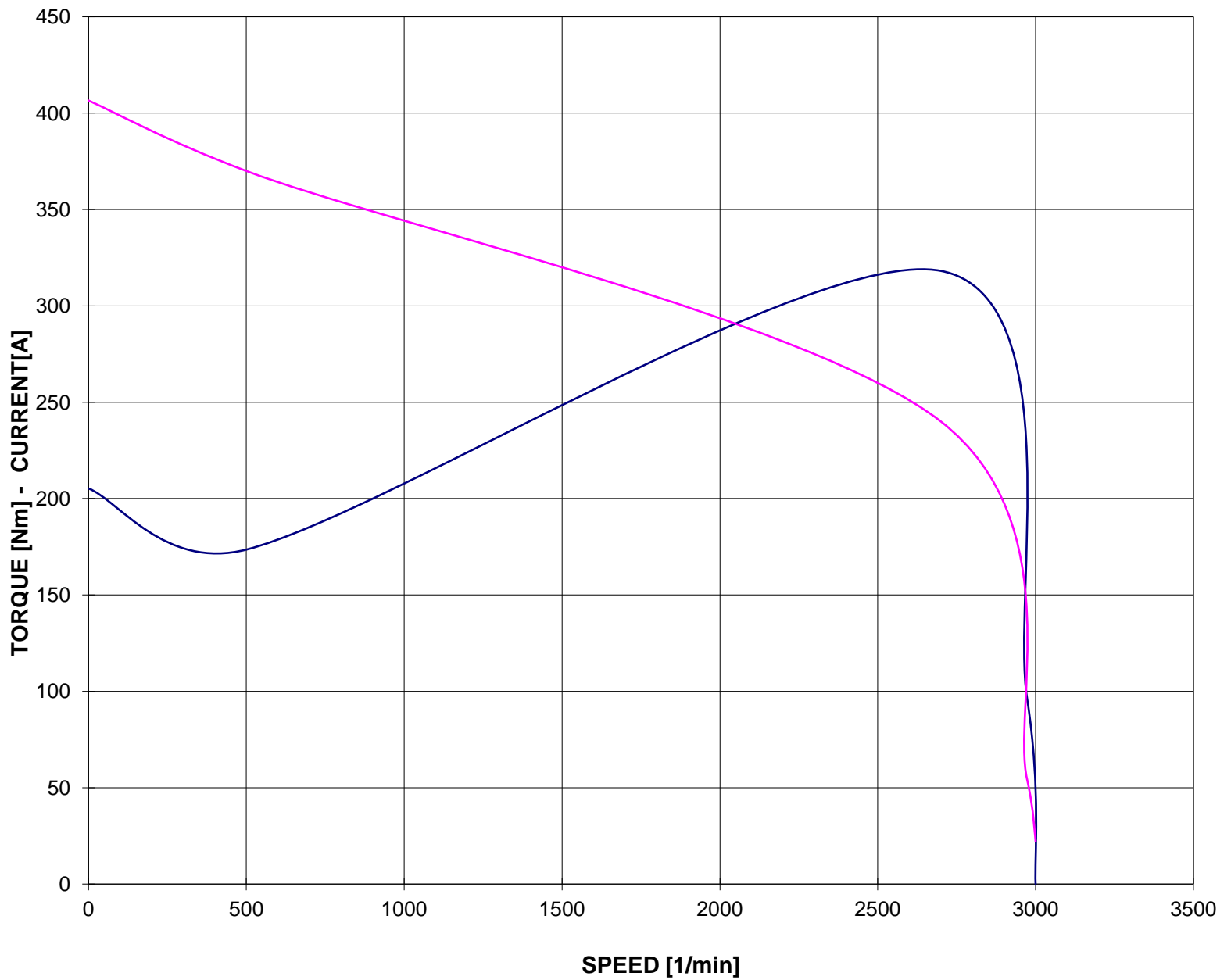


### CURVA COPPIA/CORRENTE-GIRI TORQUE/CURRENT-SPEED DIAGRAM

Cliente / Customer -  
 Ordine cliente / Customer order -  
 Impianto / Plant -  
**ITEM** -  
 Conferma ordine / Acknowledgment -  
 Numero di serie / Serial Number -

<b>Motore / Motor</b>	<b>TCI 200LA2</b>	
Potenza nominale / Rated power	30,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	54,35	A
Velocità / Speed	2973	rpm
Coppia / Torque	96,37	Nm

— COPPIA - TORQUE    — CORRENTE - CURRENT



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

Data / Date 01-feb-21



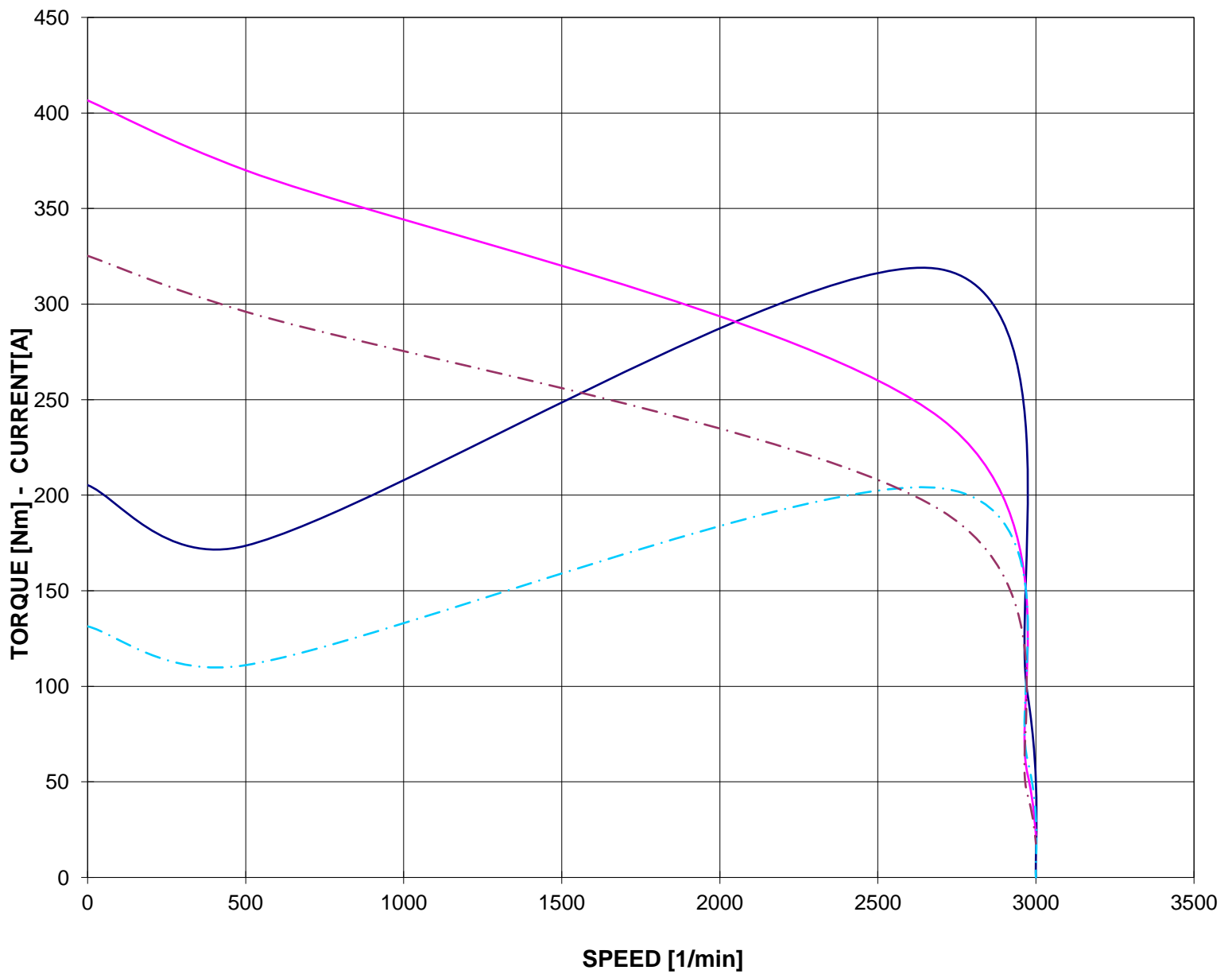


**CURVA COPPIA/CORRENTE-GIRI (Tensione ridotta)**  
**TORQUE/CURRENT-SPEED DIAGRAM (Reduced voltage)**

Cliente / Customer -  
 Ordine cliente / Customer order -  
 Impianto / Plant -  
**ITEM** -  
 Conferma ordine / Acknowledgment -  
 Numero di serie / Serial Number -

<b>Motore / Motor</b>	<b>TCI 200LA2</b>	
Potenza nominale / Rated power	30,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	54,35	A
Velocità / Speed	2973	rpm
Coppia / Torque	96,37	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 01-feb-21

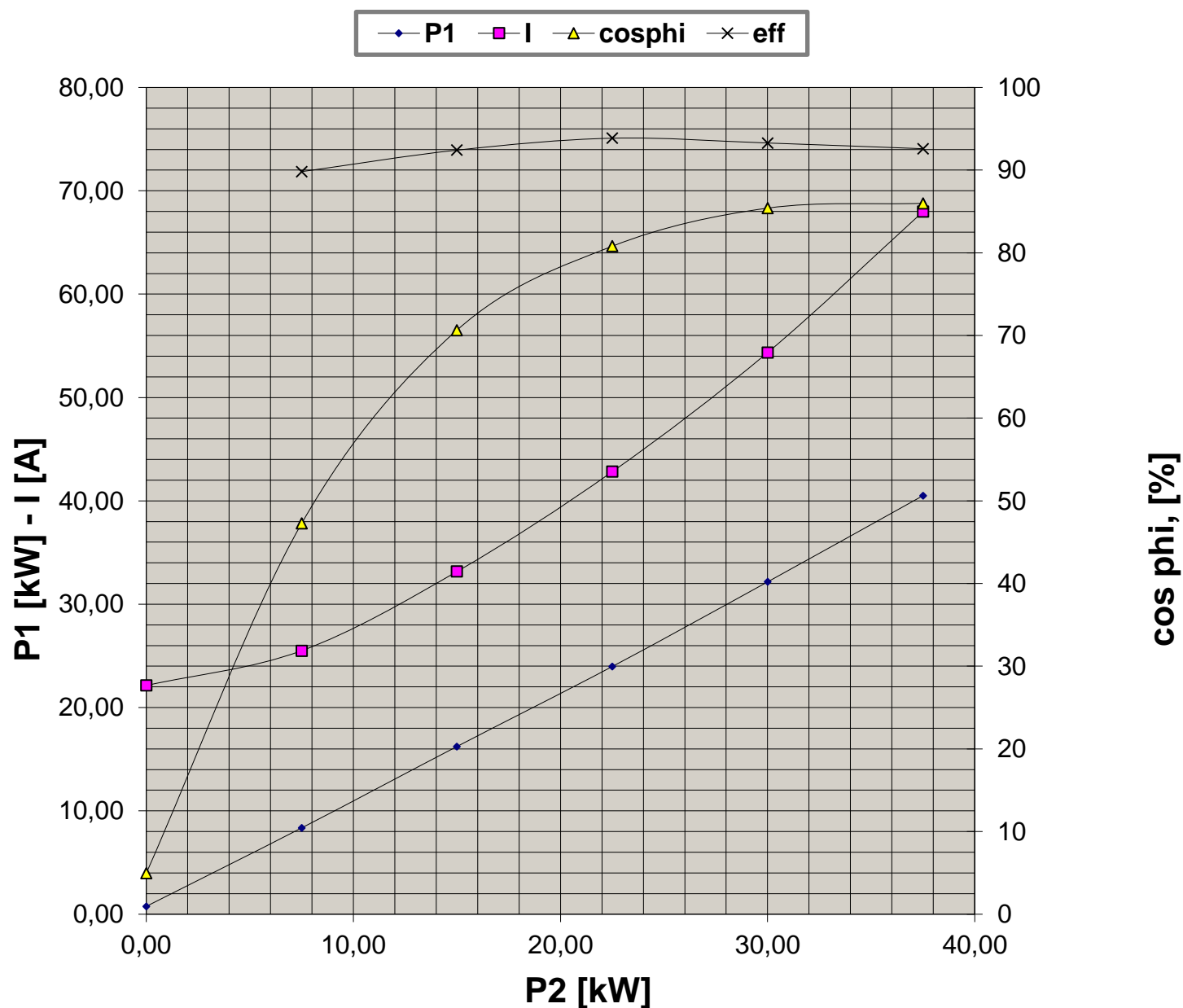




### CURVE CARATTERISTICHE PERFORMANCE CURVES

Cliente / Customer -  
 Ordine cliente / Customer order -  
 Impianto / Plant -  
**ITEM** -  
 Conferma ordine / Acknowledgment -  
 Numero di serie / Serial Number -

<b>Motore / Motor</b>	<b>TCI 200LA2</b>	
Potenza nominale / Rated power	30,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	54,35	A
Velocità / Speed	2973	rpm
Coppia / Torque	96,37	Nm



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

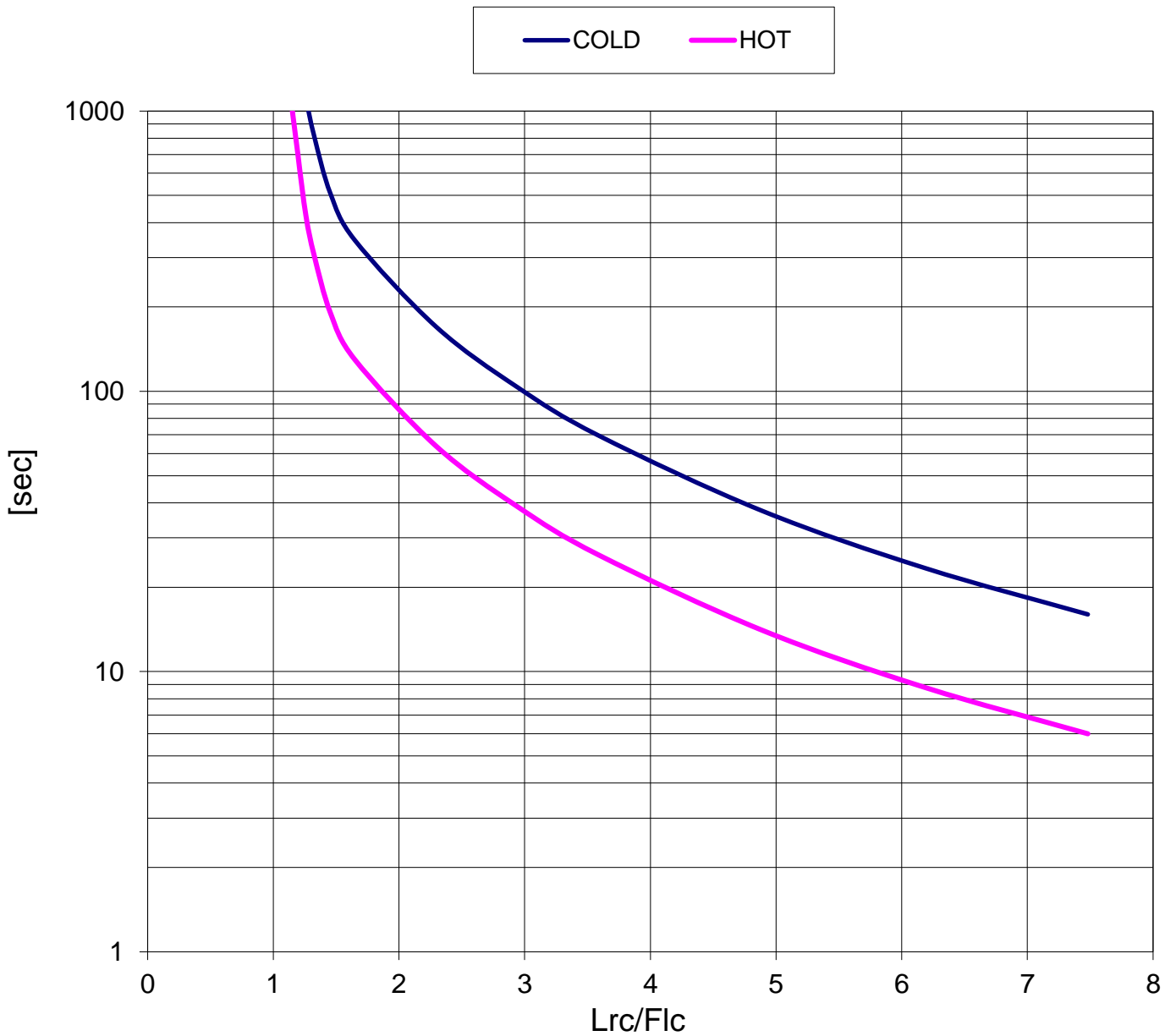
Data / Date 01-feb-21



**CURVA LIMITE CORRENTE TEMPO**  
**THERMAL WITHSTAND CURVE**

Cliente / Customer -  
 Ordine cliente / Customer order -  
 Impianto / Plant -  
**ITEM** -  
 Conferma ordine / Acknowledgment -  
 Numero di serie / Serial Number -

<b>Motore / Motor</b>	<b>TCI 200LA2</b>	
Potenza nominale / Rated power	30,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	54,35	A
Velocità / Speed	2973	rpm
Coppia / Torque	96,37	Nm



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

Data / Date 01-feb-21

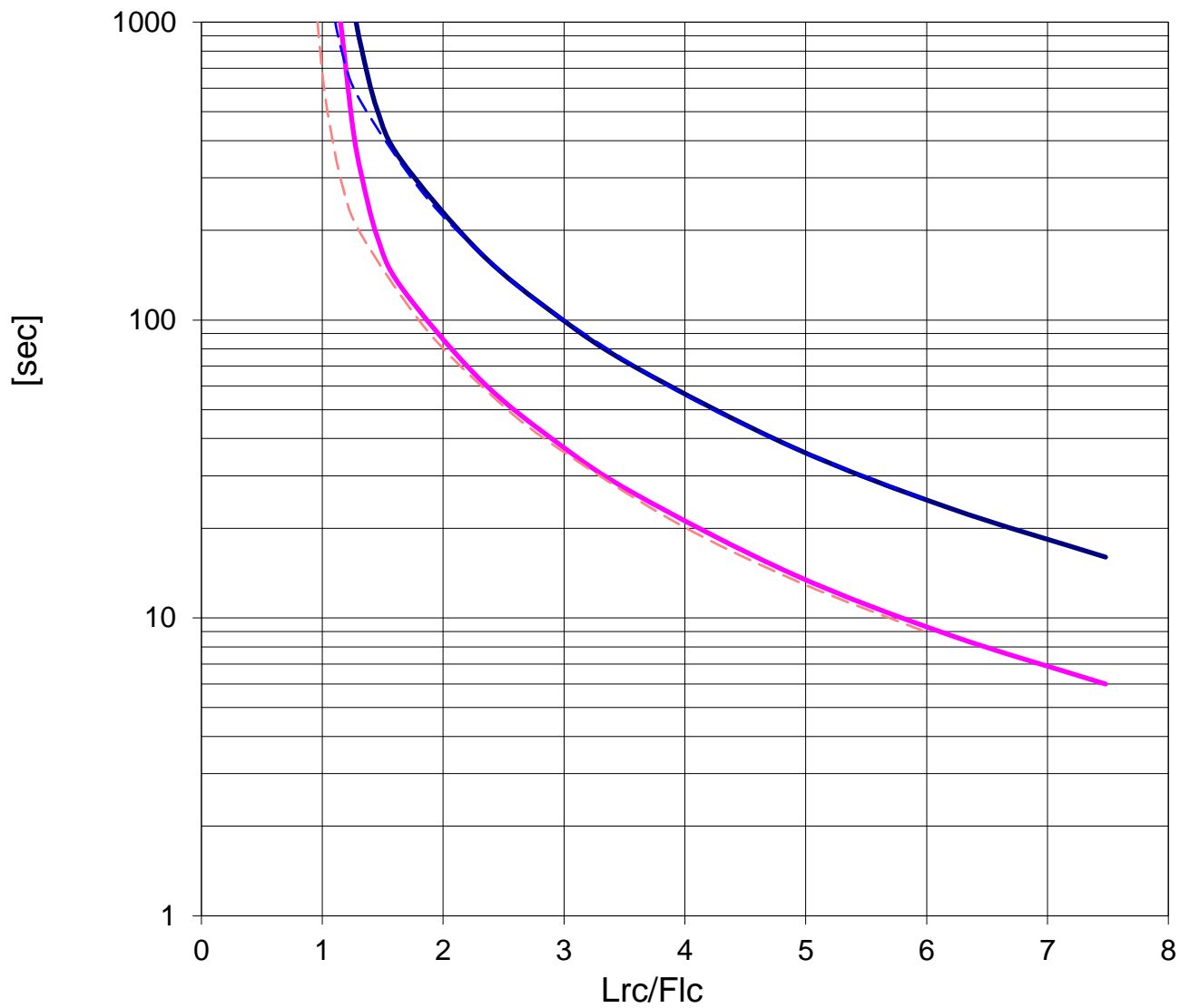
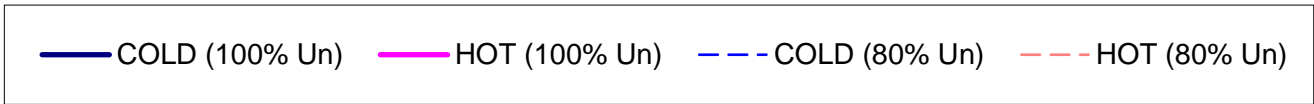


Flameproof  
Motors

**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 -

<b>Motore / Motor</b>	<b>TCI 200LA2</b>	
Potenza nominale / Rated power	30,00	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	54,35	A
Velocità / Speed	2973	rpm
Coppia / Torque	96,37	Nm



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

Data / Date 01-feb-21