PRODUCT INFORMATION PACKET

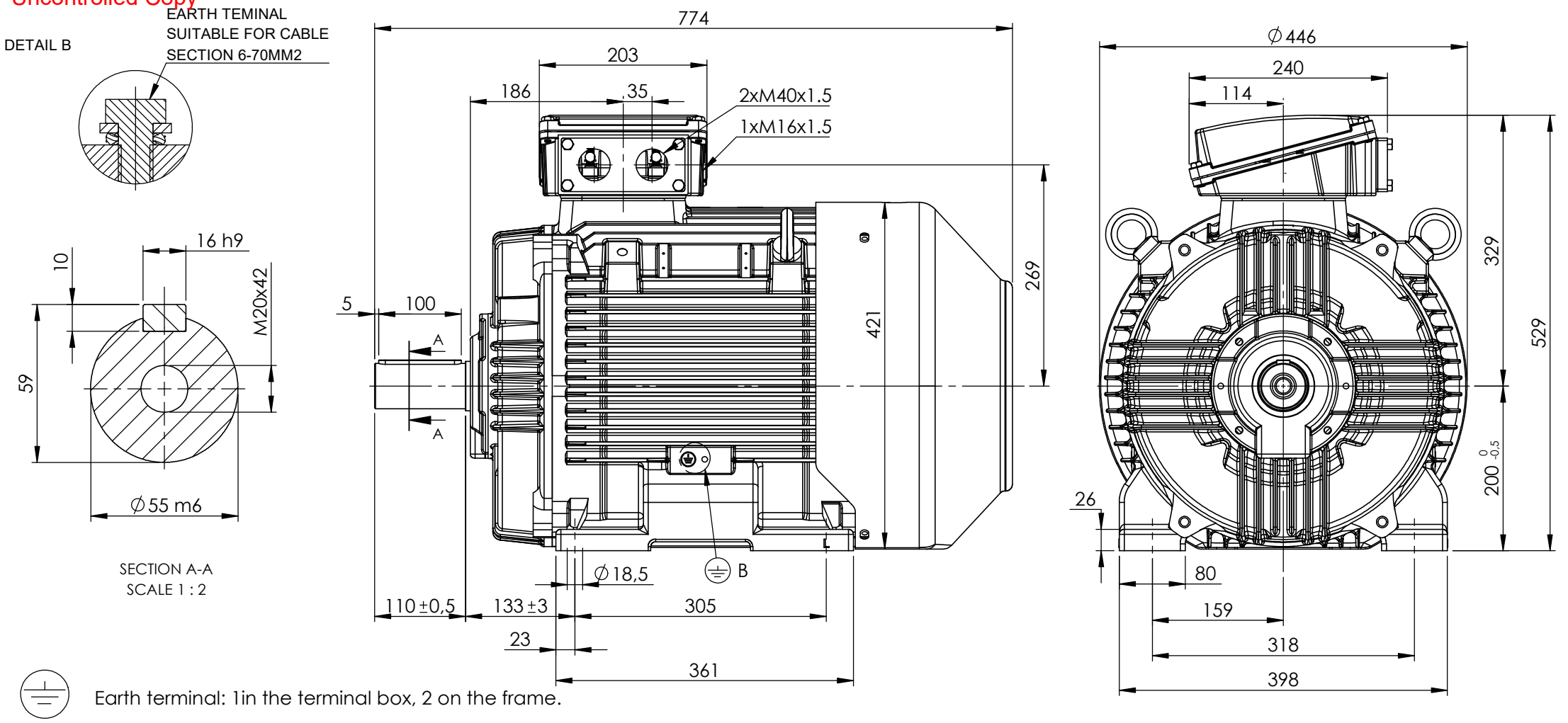
Model No: E3TI3006201B30D41100
Catalog No: E3TI3006201B30D41100
Made in Italy TCI Series, General Purpose Low Voltage IEC motor, Safe Area, 18,50 kW, 3 phase, 984 RPM, D400/Y690V 50Hz, 200LA Frame B3, 6 Poles, IC411

Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	400/690 V
Current	36.6 A	Speed	984 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	0.8
Duty	S1	Insulation Class	F
Frame	200LA	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
UL	No	CSA	No
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	769.00 mm	Frame Length	370.00 mm
Shaft Diameter	55.000 mm	Shaft Extension	110 mm
Assembly/Box Mounting	Top		
Connection Drawing	SC-01-T-1v-1a	Outline Drawing	B3A04T8200001A01



Earth terminal: 1in 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	TOLERANCES (EXCEPT AS NOTED) TOLERANCES: ±2 * TOLERANCES: ±0.8 DIMENSIONS ARE IN mm ACCORDING TO IEC 60072	DRAWN BY TN	REGAL™ cemp
ECO	APPROVED BY LP	DATE 27/04/2022		DATE 15/11/2021	
ECO DESCRIPTION				APPROVED BY LP	DESCRIPTION **Motor 200 TC (L) B3**
				DATE 16/11/2021	
			SERIAL NUMBER	REFERENCE	
				FIRST ANGLE PROJECTION	SIZE A4 / DRAWING NUMBER **B3A04T8200001A01** / SHEET 1 OF 2

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

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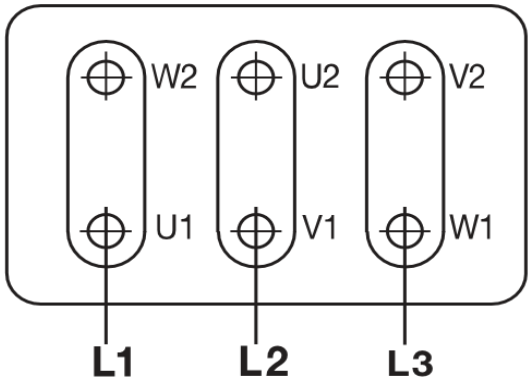
DTE 01/01/2004
SC - 01 - T - 1v.doc

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

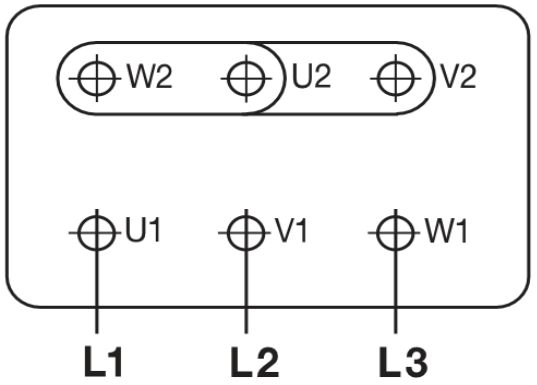
Collegamento - *Connection* - Connexion - *Schaltung* - Conexiòn

Δ



Collegamento - *Connection* - Connexion - *Schaltung* - Conexiòn

Y



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 - *Additional terminals marking* (IEC60034-8)

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

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

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

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FOGLIO DATI PER MOTORI ELETTRICI ASINCRONI TRIFASI : SERIE IEC

DATA SHEET FOR ASYNCHRONOUS THREEPHASE INDUCTION MOTORS: IEC SERIES

Cliente / Customer -	Conferma ordine / Acknowledgment : N° -
Ordine cliente / Customer order : -	Impianto / Plant -
Item : -	

DATI DI PROGETTO - DESIGN DATA

Modo di protezione		Motore / Frame		IP55
Type of protection		Scatola morsetti / Terminal box		IP55

Tem. Amb. Min. / Min Amb.Temp.	-20 °C	Tem. Amb. Max. / Max Amb. Temp.	40 °C
Umidità relativa / Relative humidity	90%	Altitudine / Altitude	< 1000 mslm / masl
Tensione nominale / Rated Voltage	400 V +/- 10%	Frequenza / Frequency	50 Hz +/- 3%

DATI FUNZIONALI E COSTRUTTIVI - PERFORMANCE AND CONSTRUCTION DATA

1	Quantità / Quantity					-		**Servizio / Duty**	
2	Motore tipo / Motor type					TCI 200LA6	40	Servizio / Duty type	- S1
3	Numero di serie / Serial Number						41	Intermittenza / Cyclic duration factor	- -
4	Forma costruttiva / Shape					B3	42	Avviamenti-ora / Starting-hour	- -
5							43	Tempo ciclo / Time	-
6								**Cuscinetti / Bearings**	
	Dati nominali / Rated data						44	Cuscinetto ant / DE bearing	- 6312 C3
7	Poli / Pole				n°	6	45	Cuscinetto post / NDE bearing	- 6212 C3
8	Potenza nominale / Rated power				kW	18,50	46	Carico radiale max / Max radial load in X1	N 4223
9	Corrente nominale / Rated current				A	36,60	47	Carico assiale max / Max axial load	N 3246
10	Velocità nominale / Full Load speed				1/min	984	48	Tipo grasso / Grease type	LGHP2 SKF or equivalent
11	Collegamento / Winding connection					D	49	Intervallo lubrificazione / Lubrication	h 12000
12	Isolamento / Insulation class					F	50	Quantità grasso / Quantity grease	gr 22
13	Sovratemperatura / Temperature rise					DT80K		**Caratteristiche meccaniche / mechanical specification**	
14	Raffreddamento / Cooling type					IC411	51	Massa / Mass	kg 262
15	Fattore di servizio / Service factor					1	52	Momento d'inerzia / Moment of inertia	kgm2 0,5182
16							53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A) 71
17	Classe di rendimento / Efficiency level				IEC 34-30	IE3	54	Vibrazioni / Vibration level	IEC 34-14 A
	Performances elettriche / Electrical performances						55	Limite norma / Vibration limit	mm/sec 2,20
	Carico / Load		4/4	3/4	2/4				
18	Giri / Speed	1/min	984	988	992		56		
19	Corr. / Curr.	A	36,60	28,80	22,66		57		
20	Rend / Eff	%	91,7	92,1	91,5				
21	cos φ	-	0,80	0,76	0,64		58		
	Performances all'avviamento / Starting performances						59		
22	Ia/In - LRC/FLC				%	630	60		
23	Cosphi a rotore bloccato / LR power factor					0,40	61		
	Tempo a rotore bloccato / LRWT						62		
24	100% Un	(A caldo / Warm)			sec	10		**Dati entrata cavi - verniciatura / Cable entry and painting**	
25		(A freddo / Cold)			sec	22	63	Entrata cavi / Cable entry	IEC 60423 2xM40+1xM16
26	80% Un	(A caldo / Warm)			sec	16	64	Ciclo verniciatura / Painting cycle	STD
27		(A freddo / Cold)			sec	35	65	Colore finale / Final colour	RAL 5010
	Tempo di avviamento ammissibile / ART								
28	100% Un				sec	19			
29	80% Un				sec	30	66		
	Curva di coppia / Speed-torque values						67		
30	Coppia nominale / Rated Torque				Nm	179,60	68		
31	Ca/Cn - LRT/FLT				%	210	69		
32	Cmax/Cn - BDT/FLT				%	260	70		
33							71		
34								**Ausiliari - Auxiliaries**	
35							72	Sonde termiche / Temperature detector	winding PTC
	Varie / Other						73	Sonde termiche / Temperature detector	bearing -
36							74	Scaldiglie / Heaters	V / W -
37							75	Preparation for SPM sensor	-
38							76	Pressacavi / Cable glands	-
39							77		

Documento preliminare - Preliminary data sheet

Prepared by : MP Tolleranze secondo - Tolerances according IEC 60034-1 Rev. 0 Data / Date 1 February 2021

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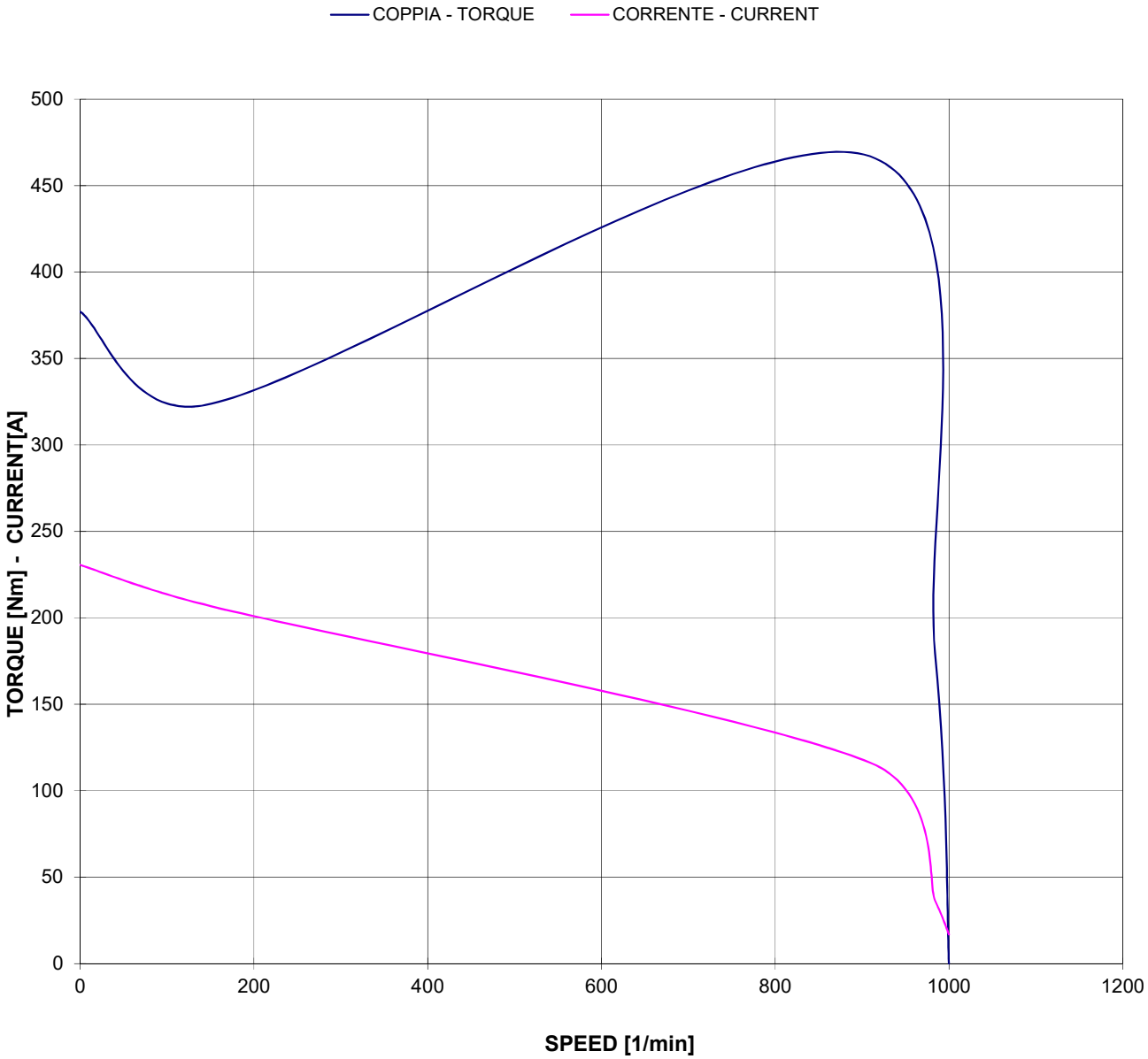
CURVA COPPIA/CORRENTE-GIRI
TORQUE/CURRENT-SPEED DIAGRAM

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

Motore / Motor	**TCI 200LA6**	
Potenza nominale / Rated power	18,50	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	36,60	A
Velocità / Speed	984	rpm
Coppia / Torque	179,60	Nm



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

Data / Date 01-feb-21

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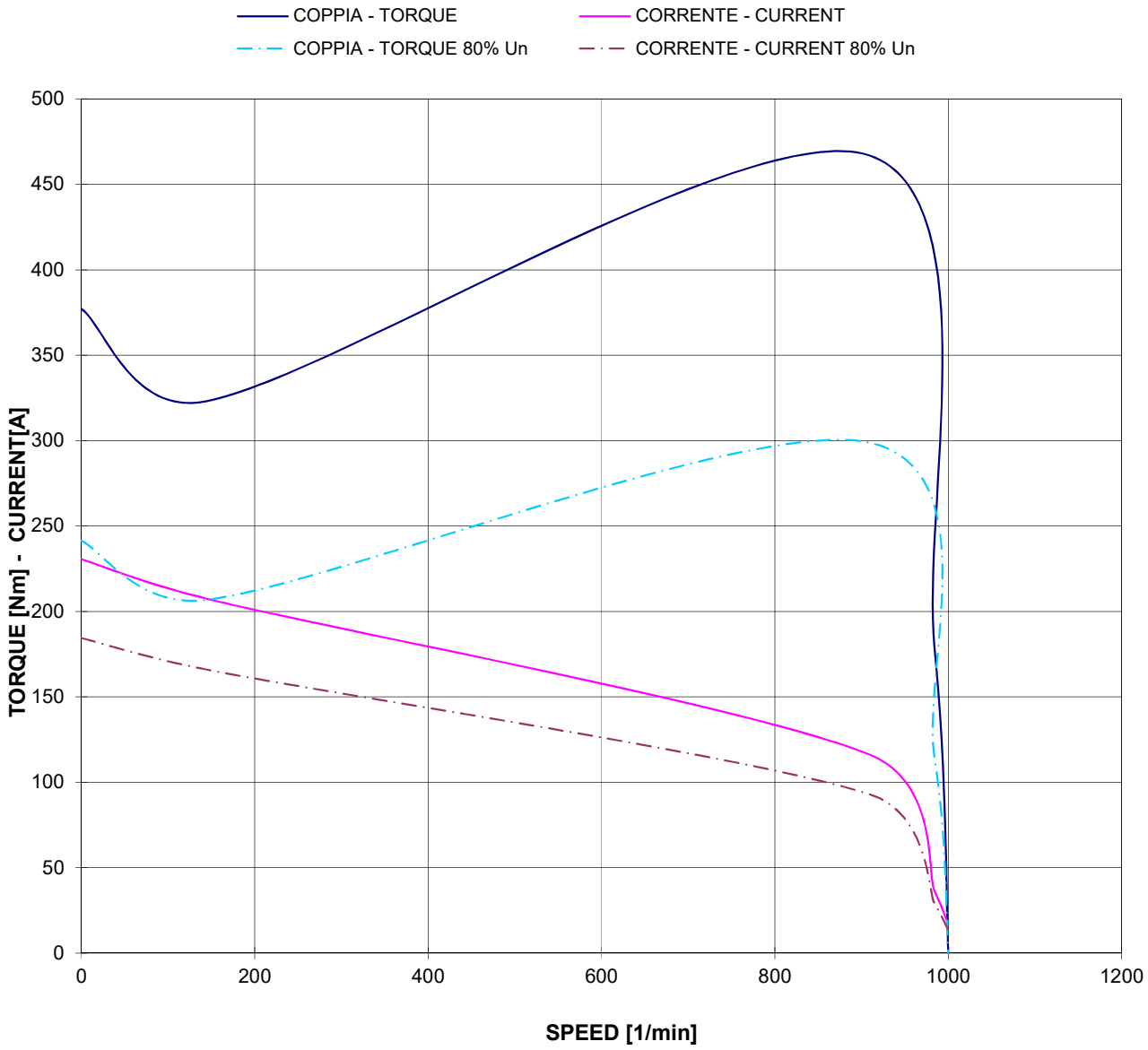
CURVA COPPIA/CORRENTE-GIRI (Tensione ridotta)
TORQUE/CURRENT-SPEED DIAGRAM (Reduced voltage)

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

Motore / Motor	**TCI 200LA6**	
Potenza nominale / Rated power	18,50	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	36,60	A
Velocità / Speed	984	rpm
Coppia / Torque	179,60	Nm



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Data / Date 01-feb-21

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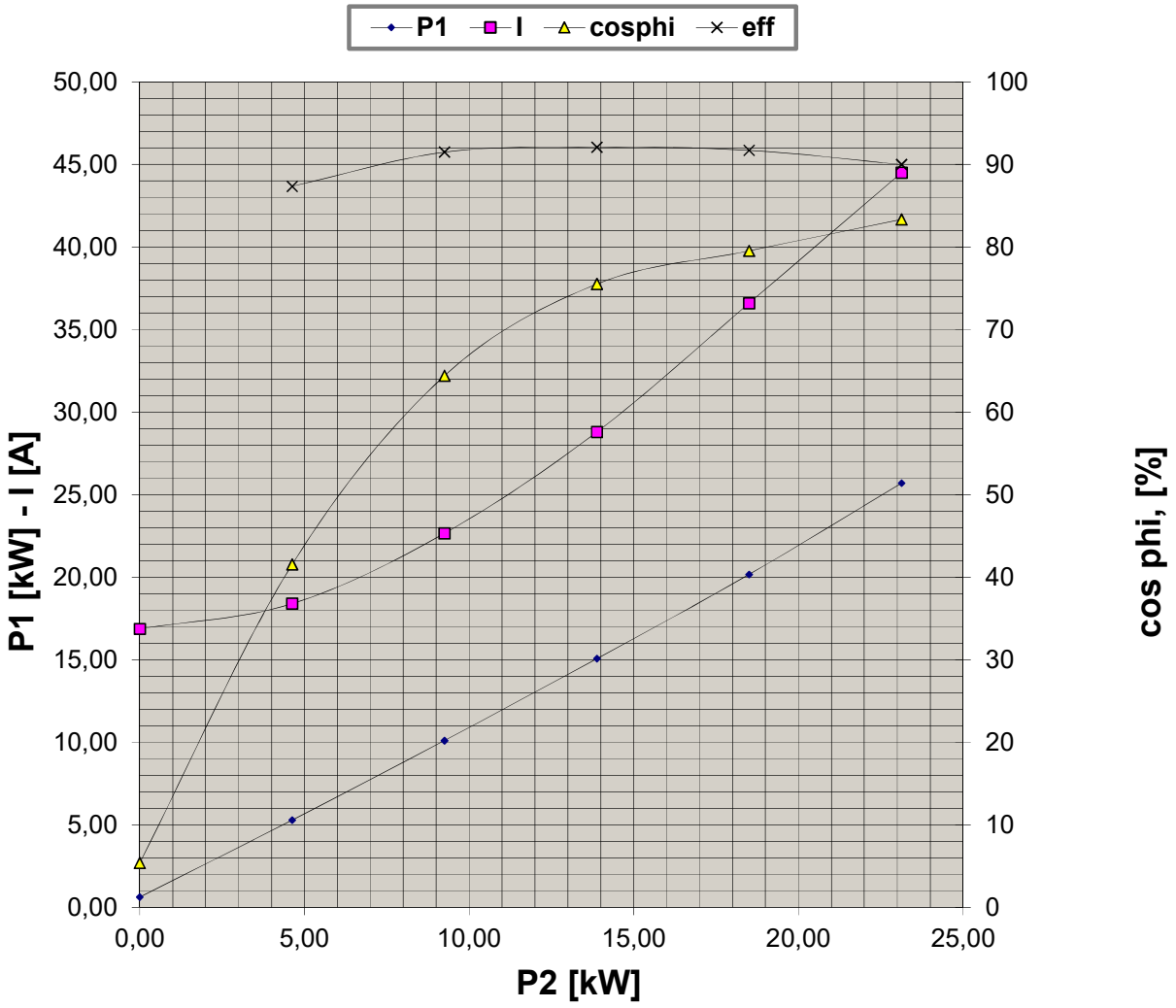
CURVE CARATTERISTICHE
PERFORMANCE CURVES

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

Motore / Motor	**TCI 200LA6**	
Potenza nominale / Rated power	18,50	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	36,60	A
Velocità / Speed	984	rpm
Coppia / Torque	179,60	Nm



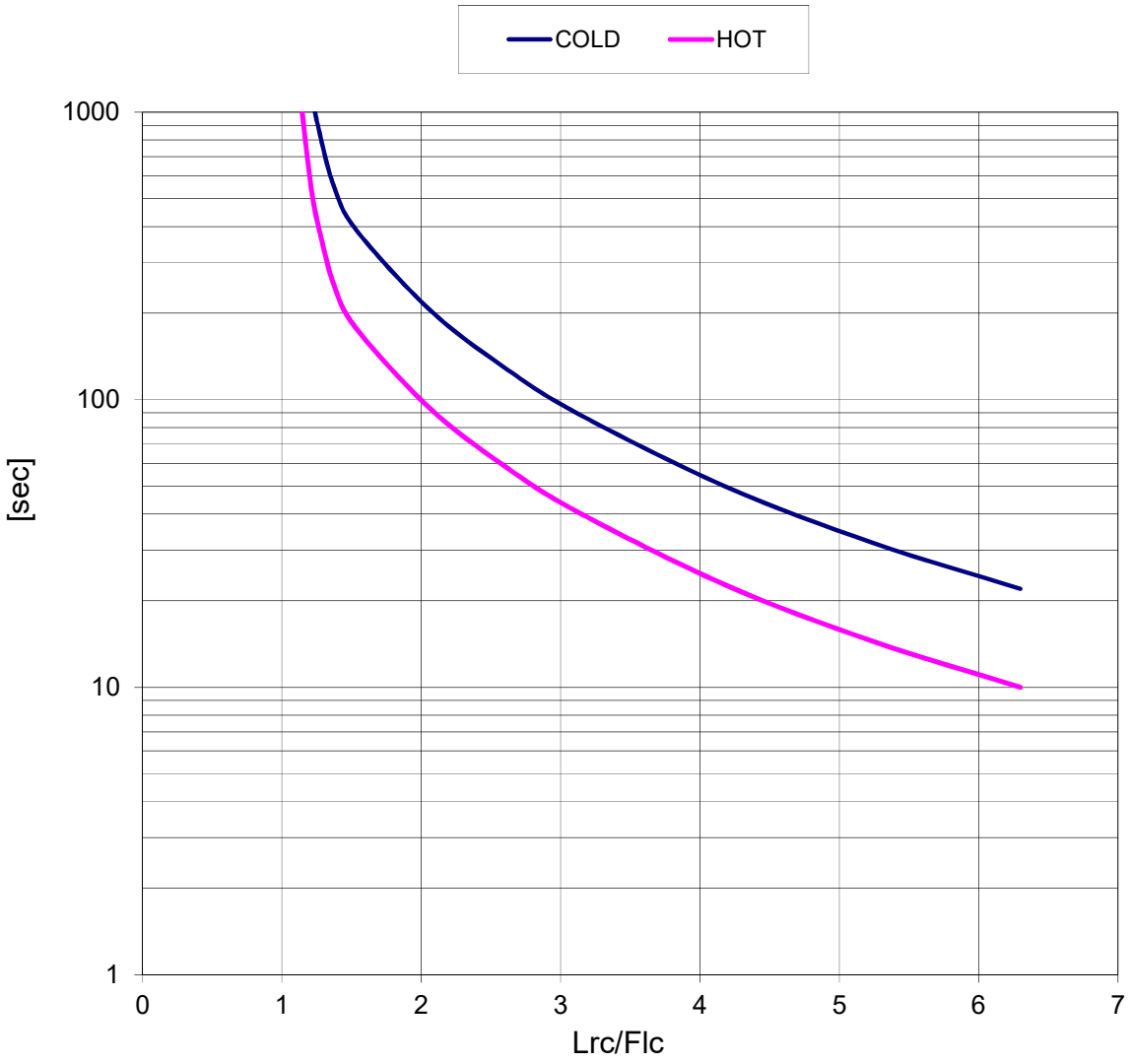
Valori calcolati - Data obtained by calculation method
Documento preliminare - Preliminary document

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	

Motore / Motor	**TCI 200LA6**	
Potenza nominale / Rated power	18,50	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	36,60	A
Velocità / Speed	984	rpm
Coppia / Torque	179,60	Nm



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

Data / Date 01-feb-21

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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	**TCI 200LA6**	
Potenza nominale / Rated power	18,50	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
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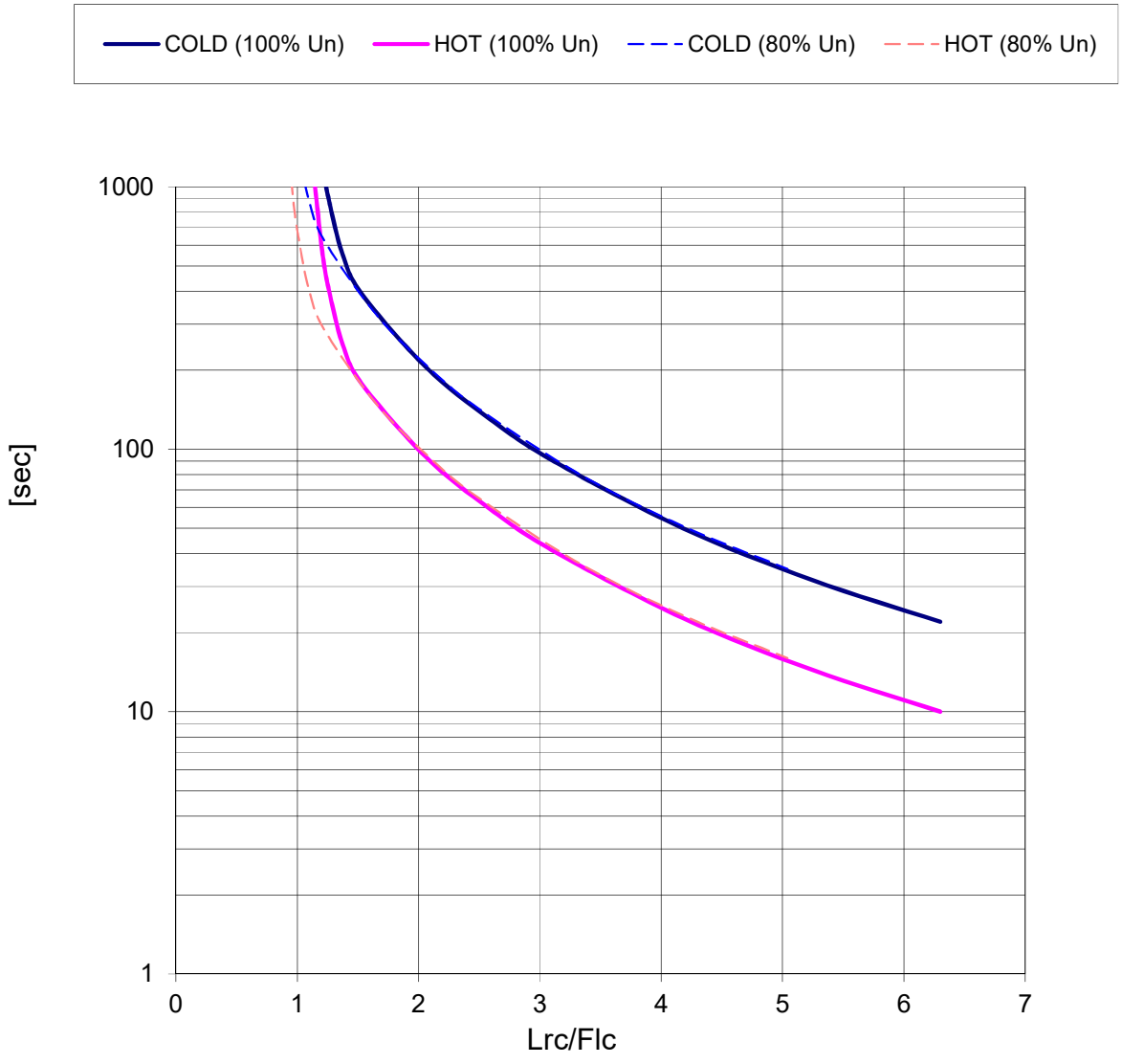

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