PRODUCT INFORMATION PACKET

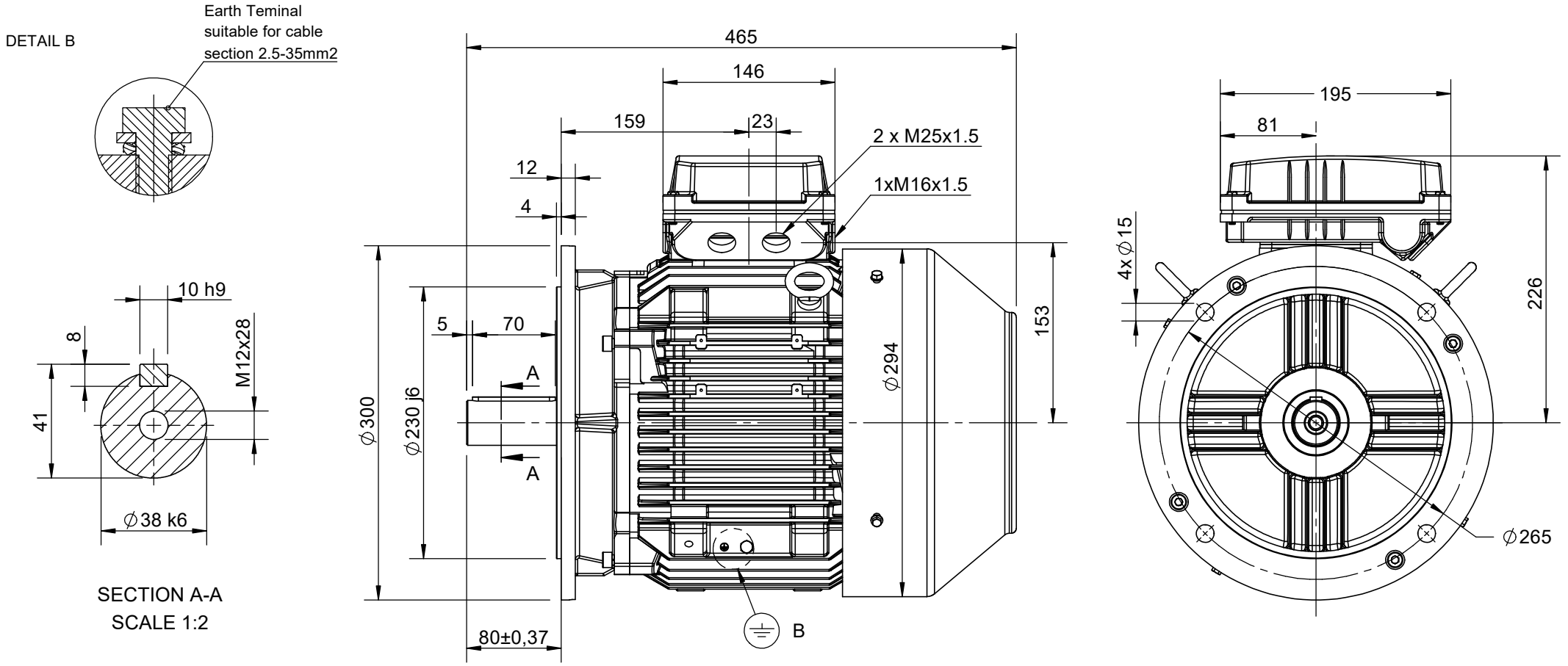
Model No: E3TI3006131B50D41100
Catalog No: E3TI3006131B50D41100
Made in Italy TCI Series, General Purpose Low Voltage IEC motor, Safe Area, 3,00 kW, 3 phase, 970 RPM, D400/Y690V 50Hz, 132S Frame B5, 6 Poles, IC411

Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	6.6 A	Speed	970 rpm
Service Factor	1	Phase	3
Efficiency	85.6 %	Power Factor	0.77
Duty	S1	Insulation Class	F
Frame	132S	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6308	Opp Drive End Bearing Size	6208
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	B5	Motor Orientation	Horizontal
Drive End Bearing	2z-C3	Opp Drive End Bearing	2z-C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	465.00 mm	Frame Length	202.00 mm
Shaft Diameter	38.000 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Top		
Connection Drawing	SC-01-T-1v-1a	Outline Drawing	B5A04T8135001B01



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

CUSTOMER REFERENCE AND ADDITIONAL INFORMATION:

MOTOR TYPE AND DESCRIPTION:

DRAWING REVISION	REVISION BY	DATE
ECO	APPROVED BY	DATE
ECO DESCRIPTION		

TOLERANCES (EXCEPT AS NOTED)
TOLERANCES: ±2

DIMENSIONS ARE IN mm
ACCORDING TO IEC 60072

SERIAL NUMBER

DRAWN BY	TN
DATE	3/11/2021
APPROVED BY	LP
DATE	4/11/2021
REFERENCE	
FIRST ANGLE PROJECTION	

REGAL™ cemp

DESCRIPTION

Motor 132 TC (S) B5

SIZE	DRAWING NUMBER	SHEET
A4	**B5A04T8135001B01**	1 OF 2

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

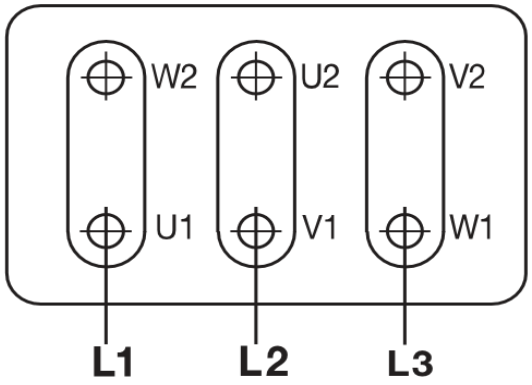
cemp
Flameproof Motors

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

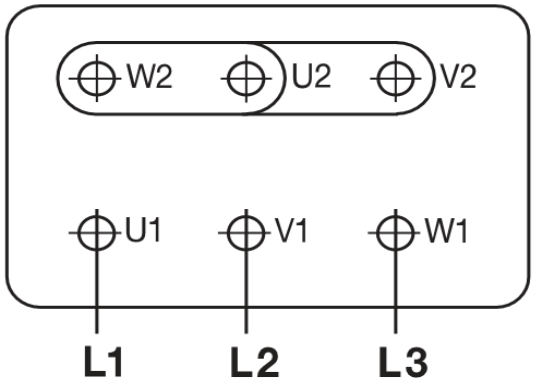
Collegamento - *Connection* - Connexion - *Schaltung* - Conexiòn

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

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			01		**Servizio / Duty**		
2	Motore tipo / Motor type			TCI 132S6	40	Servizio / Duty type	-	S1
3	Numero di serie / Serial Number				41	Intermittenza / Cyclic duration factor	-	-
4	Forma costruttiva / Shape			B5	42	Avviamenti-ora / Starting-hour	-	-
5					43	Tempo ciclo / Time		-
6						**Cuscinetti / Bearings**		
	Dati nominali / Rated data				44	Cuscinetto ant / DE bearing	-	6308 ZZ C3
7	Poli / Pole		n°	6	45	Cuscinetto post / NDE bearing	-	6208 ZZ C3
8	Potenza nominale / Rated power		kW	3,00	46	Carico radiale max / Max radial load in X1	N	2212
9	Corrente nominale / Rated current		A	6,58	47	Carico assiale max / Max axial load	N	1565
10	Velocità nominale / Full Load speed		1/min	970	48	Tipo grasso / Grease type		LGHP2 SKF or equivalent
11	Collegamento / Winding connection			Y	49	Intervallo lubrificazione / Lubrication	h	-
12	Isolamento / Insulation class			F	50	Quantità grasso / Quantity grease	gr	-
13	Sovratemperatura / Temperature rise			DT80K		**Caratteristiche meccaniche / mechanical specification**		
14	Raffreddamento / Cooling type			IC411	51	Massa / Mass	kg	66
15	Fattore di servizio / Service factor			1	52	Momento d'inerzia / Moment of inertia	kgm2	0,0413
16					53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A)	65
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	1,60
	Carico / Load		4/4	3/4	2/4			
18	Giri / Speed	1/min	970	979	986	56		
19	Corr. / Curr.	A	6,58	5,30	4,40	57		
20	Rend / Eff	%	85,9	85,4	85,6			
21	cos φ	-	0,77	0,72	0,58	58		
	Performances all'avviamento / Starting performances					59		
22	Ia/In - LRC/FLC				%	560	60	
23	Cosphi a rotore bloccato / LR power factor					0,53	61	
	Tempo a rotore bloccato / LRWT						62	
24	100% Un	(A caldo / Warm)			sec	11		**Dati entrata cavi - verniciatura / Cable entry and painting**
25		(A freddo / Cold)			sec	26	63	Entrata cavi / Cable entry IEC 60423 2xM25+1xM16
26	80% Un	(A caldo / Warm)			sec	17	64	Ciclo verniciatura / Painting cycle STD
27		(A freddo / Cold)			sec	40	65	Colore finale / Final colour RAL 5010
	Tempo di avviamento ammissibile / ART							
28	100% Un				sec	22		
29	80% Un				sec	35	66	
	Curva di coppia / Speed-torque values						67	
30	Coppia nominale / Rated Torque				Nm	29,53	68	
31	Ca/Cn - LRT/FLT				%	190	69	
32	Cmax/Cn - BDT/FLT				%	240	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 NO
39							77	

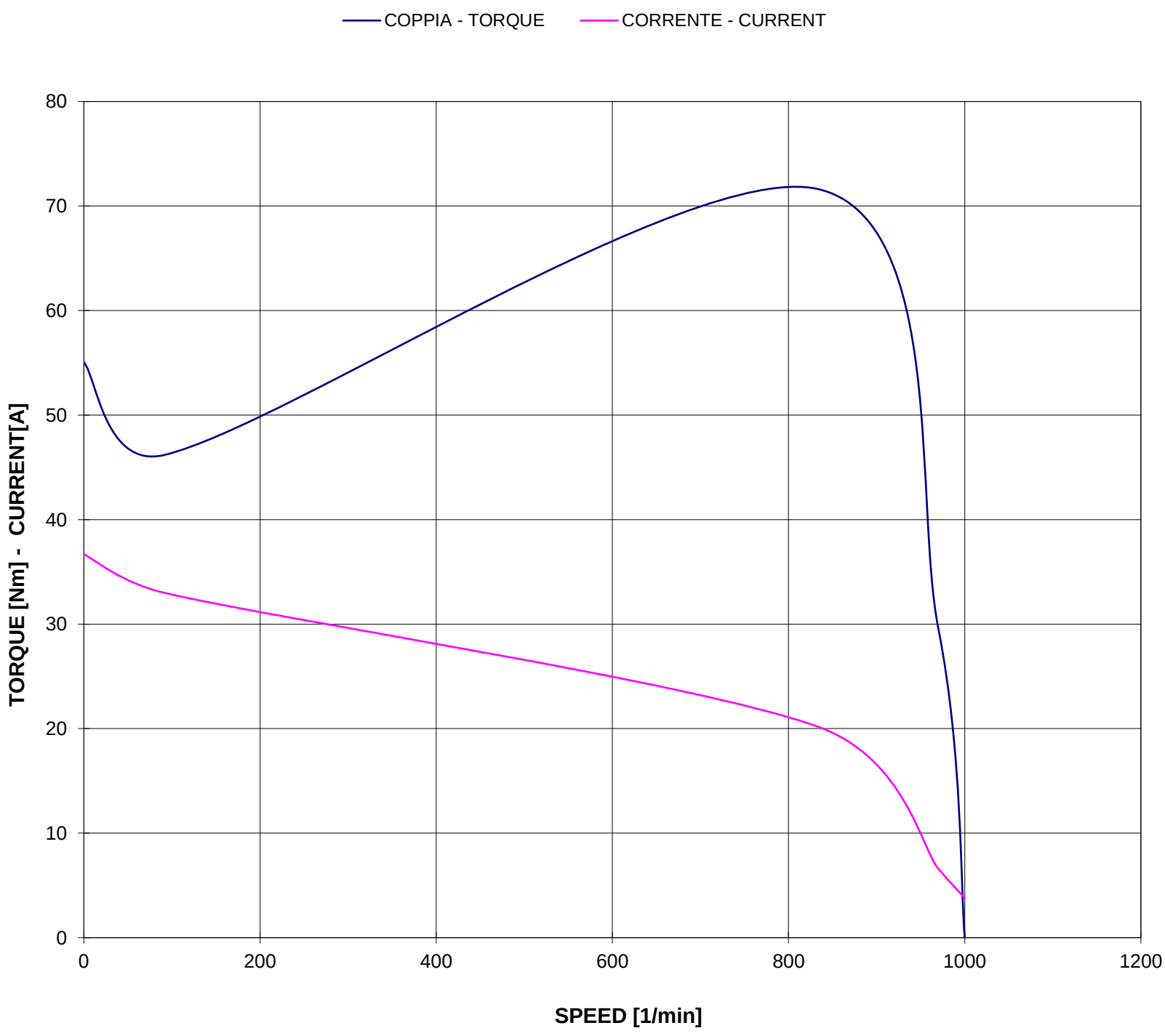
Documento preliminare - Preliminary data sheet

Prepared by : GC Tolleranze secondo - Tolerances according IEC 60034-1 Rev. 0 Data / Date 21 February 2022

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 132S6**	
Potenza nominale / Rated power	3,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	6,60	A
Velocità / Speed	970	rpm
Coppia / Torque	29,60	Nm



Valori calcolati - Data obtained by calculation method

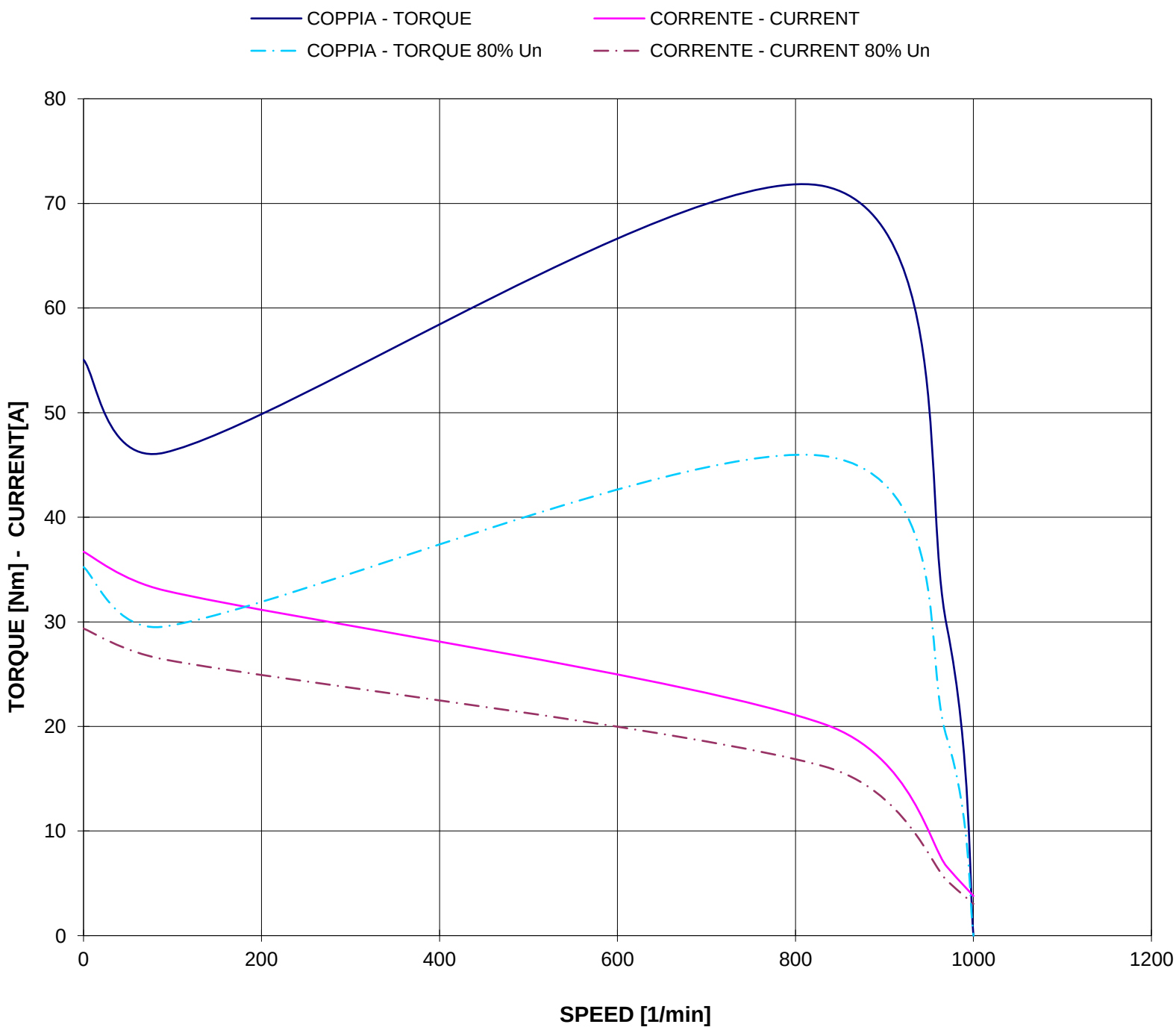
MOD-600

Data / Date 07 March 2022

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 132S6**	
Potenza nominale / Rated power	3,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	6,60	A
Velocità / Speed	970	rpm
Coppia / Torque	29,60	Nm



Valori calcolati - Data obtained by calculation method

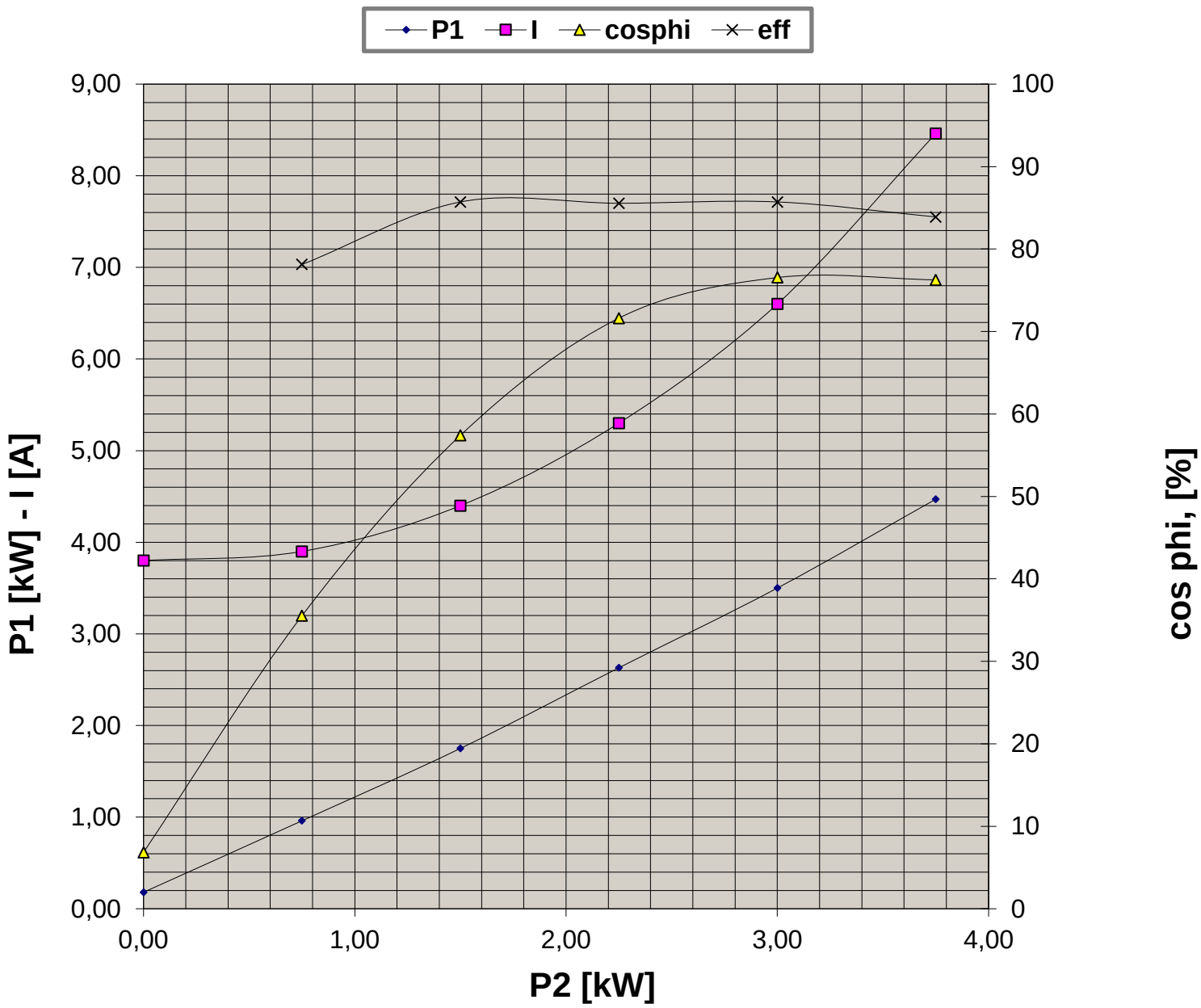
MOD-602

Data / Date 07 March 2022

CURVE CARATTERISTICHE
PERFORMANCE CURVES

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

Motore / Motor	**TCI 132S6**	
Potenza nominale / Rated power	3,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	6,60	A
Velocità / Speed	970	rpm
Coppia / Torque	29,60	Nm



Valori calcolati - Data obtained by calculation method

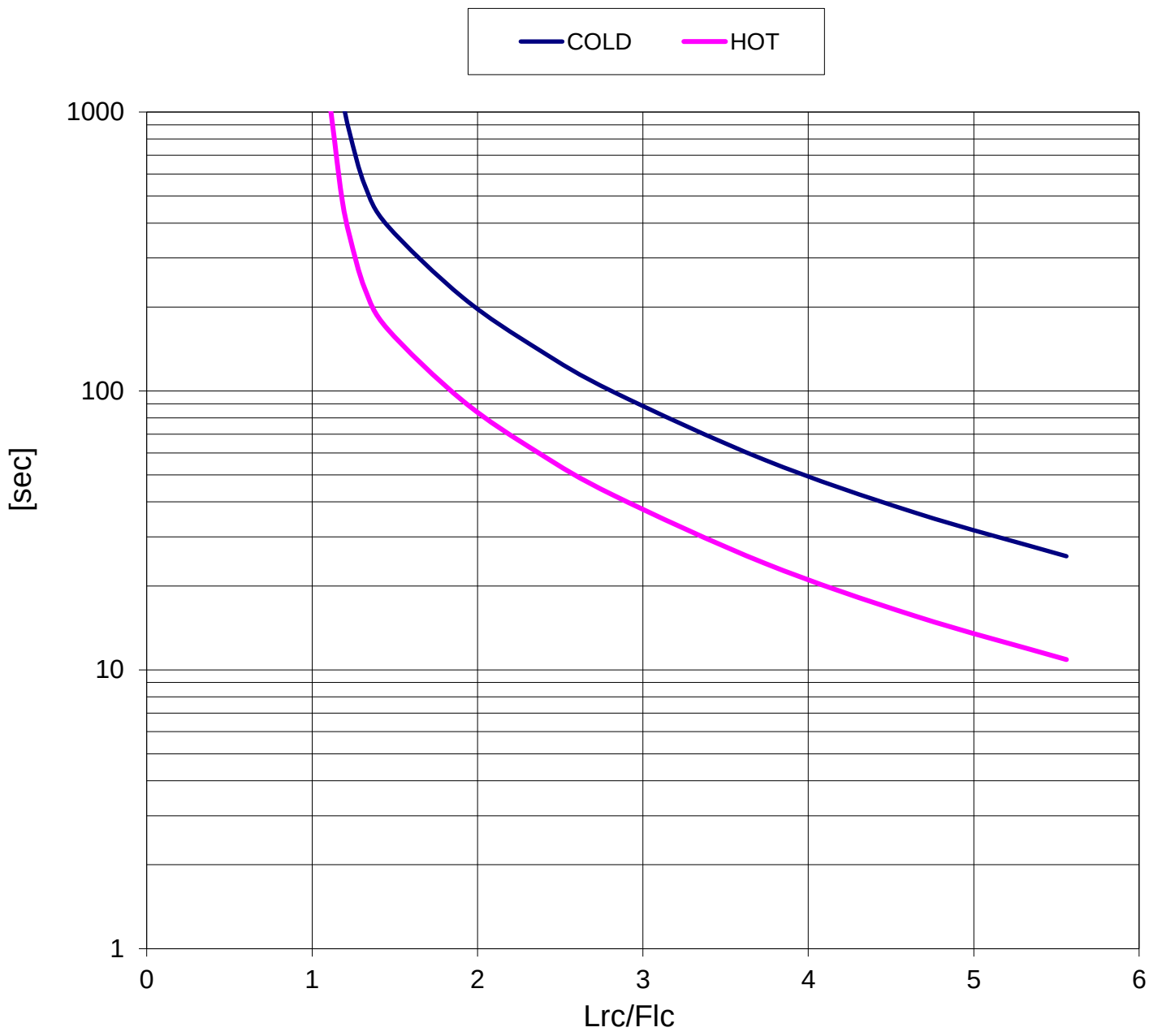
MOD-700

Data / Date 07 March 2022

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 132S6**	
Potenza nominale / Rated power	3,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	6,60	A
Velocità / Speed	970	rpm
Coppia / Torque	29,60	Nm



Valori calcolati - Data obtained by calculation method

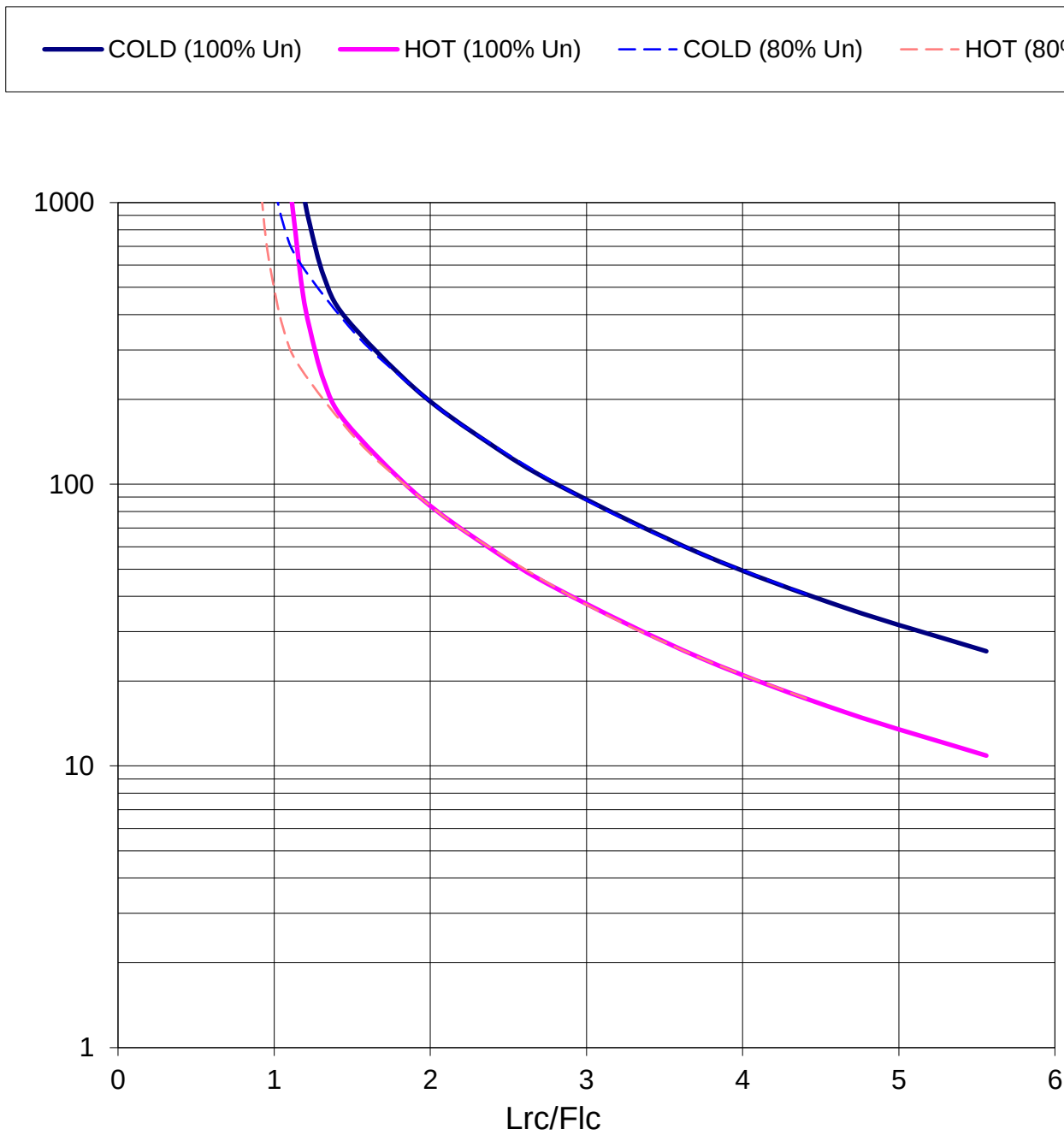
MOD-900

Data / Date 07 March 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	**TCI 132S6**	
Potenza nominale / Rated power	3,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	6,60	A
Velocità / Speed	970	rpm
Coppia / Torque	29,60	Nm



Valori calcolati - Data obtained by calculation method

MOD-901

Data / Date 07 March 2022