

PRODUCT INFORMATION PACKET

Model No: E3AC3004137B50D41100

Catalog No: E3AC3004137B50D41100

Made in Italy E3AC30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 11,00kW,
3 phase, 1476 RPM, D400/Y690V 50Hz, 132ML Frame B5, 4 Poles, IC411, Higher Output Motor



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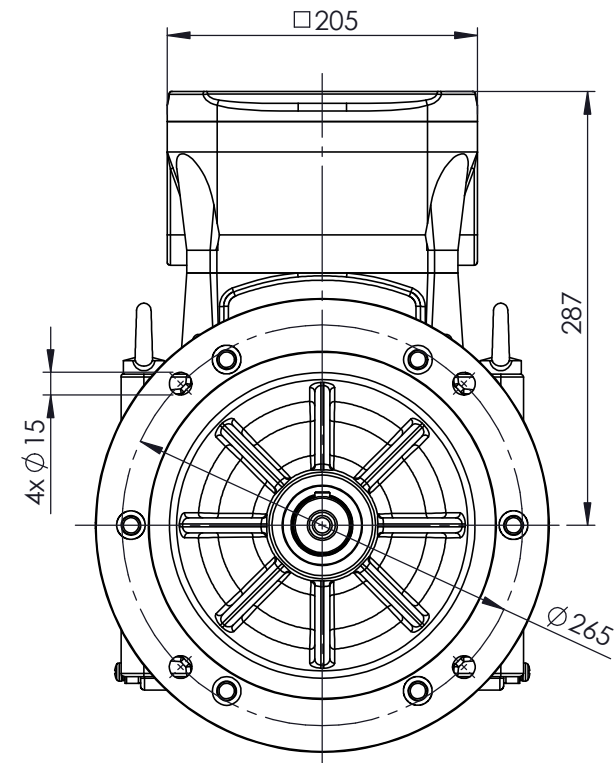
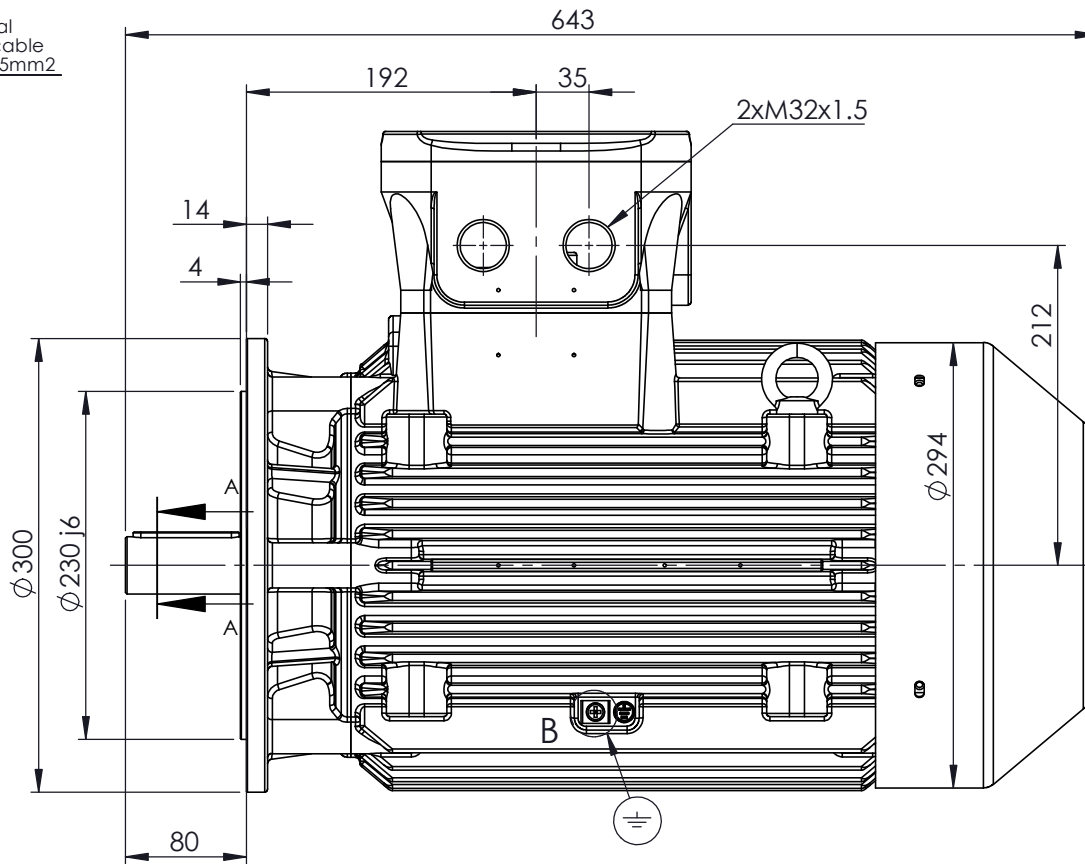
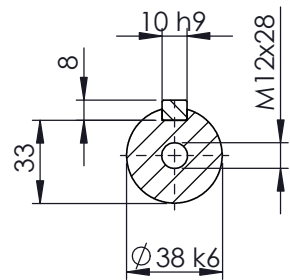
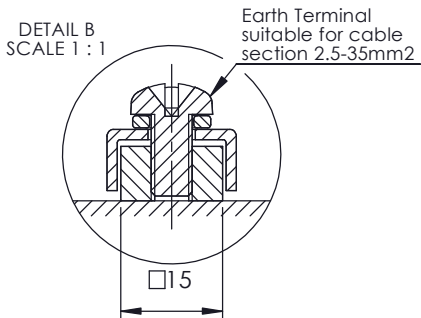
Nameplate Specifications

Phase	3	Output HP	15 Hp
Output KW	11.0 kW	Voltage	400/690 V
Speed	1476 rpm	Service Factor	1
Frame	132ML	Enclosure	Totally Enclosed Fan Cooled
Efficiency	91.4 %	Ambient Temperature	40 °C
Frequency	50 Hz	Current	20.7 A
Power Factor	0.84	Duty	S1
Insulation Class	F	Drive End Bearing Size	6308
Opp Drive End Bearing Size	6308	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	4	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	728.00 mm	Frame Length	365.00 mm
Shaft Diameter	38.000 mm	Shaft Extension	80 mm
Assembly/Box Mounting	Top		
Outline Drawing	B5A04E8133001B01	Connection Drawing	SC-01-T-1v-1a

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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 LP	REGAL™ cemp			
ECO	APPROVED BY	DATE		DATE 20/10/2021				
ECO DESCRIPTION				APPROVED BY MG	DESCRIPTION Motor A132 LA/LB (L) B5 Simplified			
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			SERIAL NUMBER	REFERENCE	SIZE A4	DRAWING NUMBER B5A04E8133001B01		SHEET 1 OF 2
						FIRST ANGLE PROJECTION		

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**

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	Protettore bimetallico del freno normalmente chiuso - <i>NC brake bi-metallic switch (**)</i>
TB8 - TB9 (intervento- <i>switch off</i>)	2	
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 132ML 4	
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°	4	
8	Potenza nominale / Rated power			kW	11,00	
9	Corrente nominale / Rated current			A	20,66	
10	Velocità nominale / Full Load speed			1/min	1476	
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	1476	1484	1489	
19	Corr. / Curr.	A	20,66	16,32	10,99	
20	Rend / Eff	%	91,4	91,9	91,0	
21	cos φ	-	0,84	0,79	0,79	
Performances all'avviamento / Starting performances						
22	Ia/In - LRC/FLC			%	735	
23	Cosphi a rotore bloccato / LR power factor				0,47	
	Tempo a rotore bloccato / LRWT					
24	100% Un (A caldo / Warm)			sec	9	
25	(A freddo / Cold)			sec	24	
26	80% Un (A caldo / Warm)			sec	14	
27	(A freddo / Cold)			sec	38	
	Tempo di avviamento ammissibile / ART					
28	100% Un			sec	21	
29	80% Un			sec	33	
Curva di coppia / Speed-torque values						
30	Coppia nominale / Rated Torque			Nm	71,17	
31	Ca/Cn - LRT/FLT			%	240	
32	Cmax/Cn - BDT/FLT			%	320	
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	- 6308 ZZ C3
45	Cuscinetto post / NDE bearing	- 6308 ZZ C3
46	Carico radiale max / Max radial load in X1	N 1910
47	Carico assiale max / Max axial load	N 590
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 145,4
52	Momento d'inerzia / Moment of inertia	kgm2 0,0428
53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A) 65
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	2xM32
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

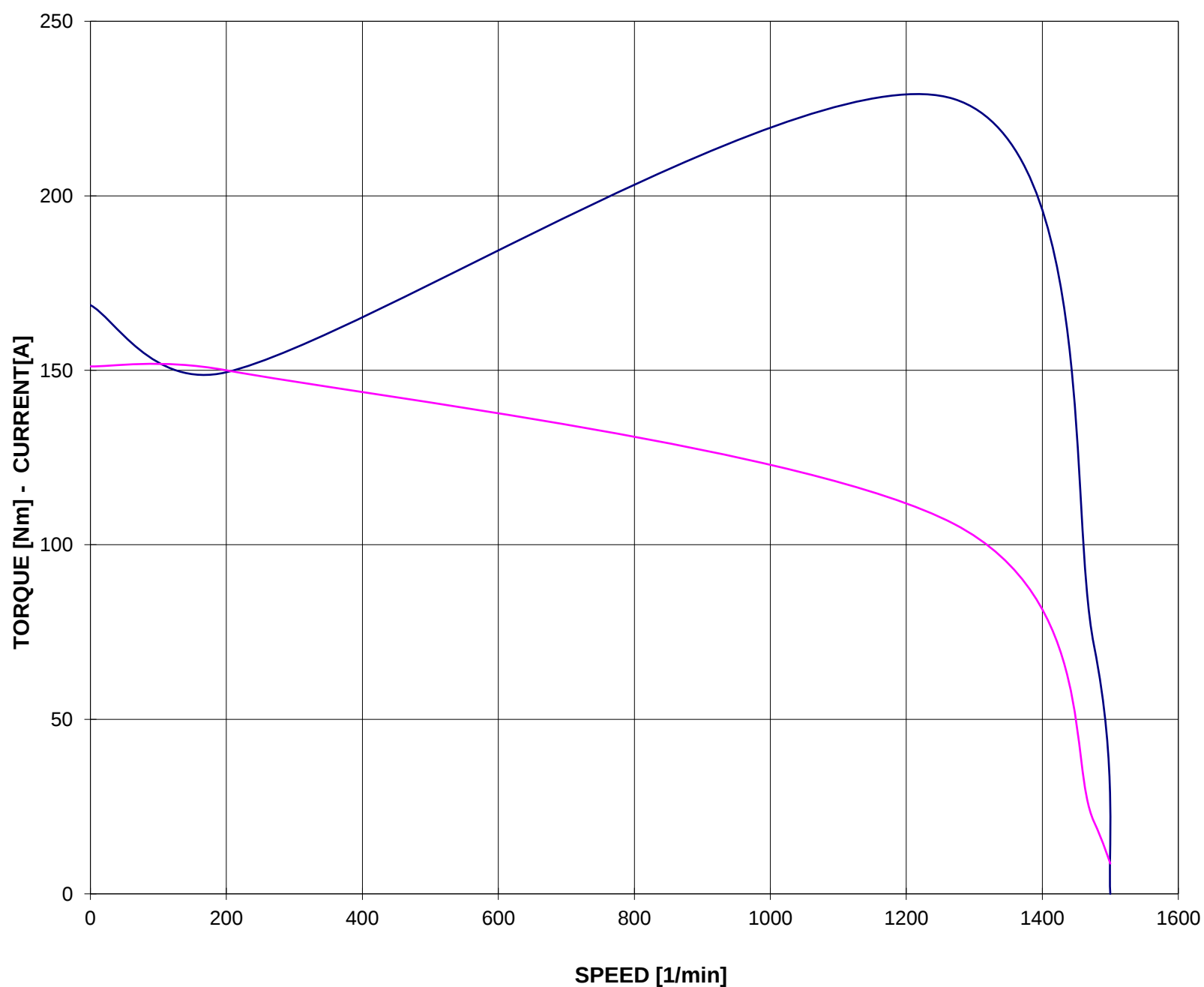
Impianto / Plant -
ITEM -

Numero d'offerta / Offer Number 2021.
-

Motore / Motor E3AC30 132ML 4

Potenza nominale / Rated power	11,00	kW
Poli / Pole	4	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	20,66	A
Velocità / Speed	1476	rpm
Coppia / Torque	71,17	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 132ML 4

Potenza nominale / Rated power 11,00 kW

Poli / Pole 4

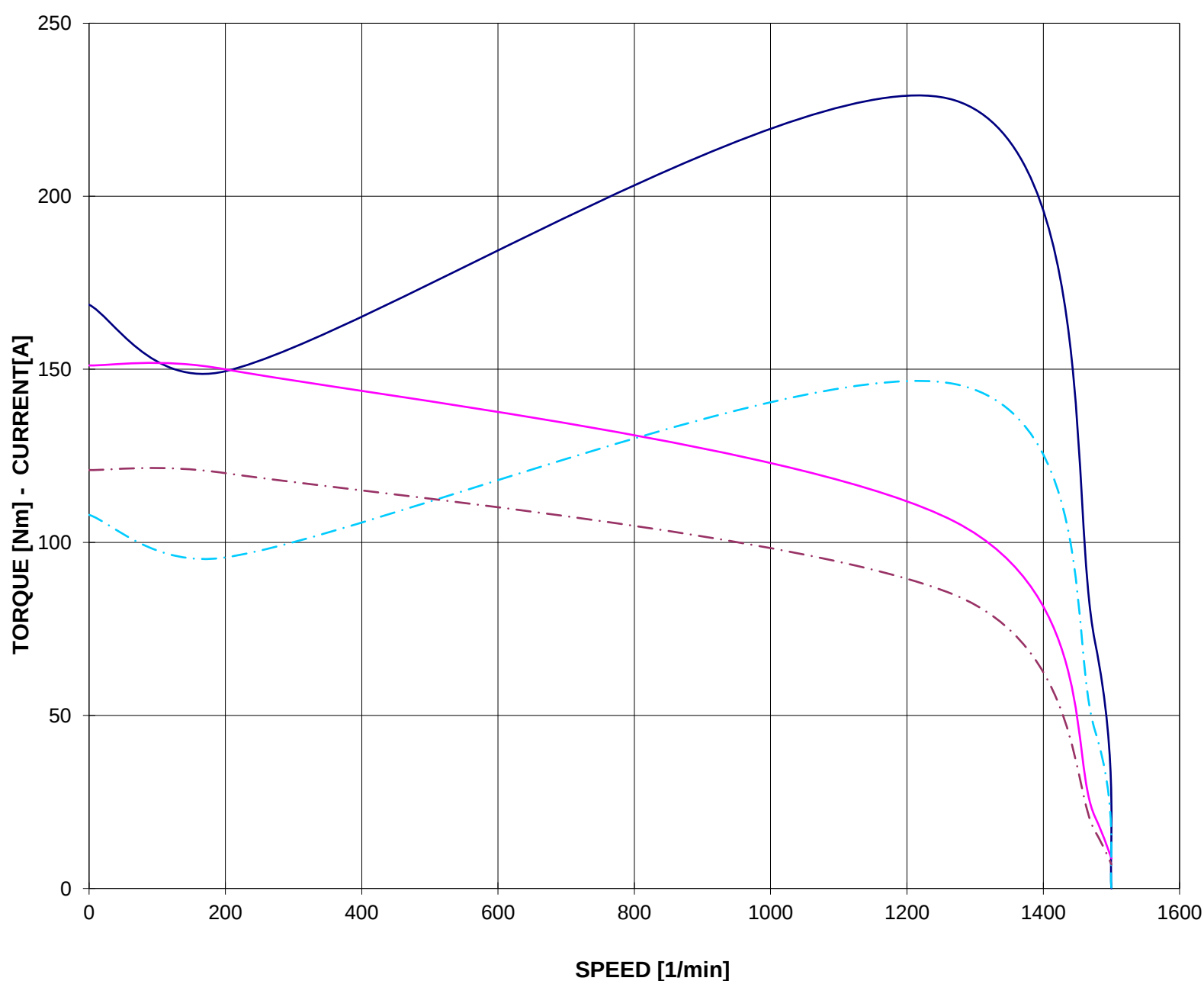
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz

Corrente / Rated current 20,66 A

Velocità / Speed 1476 rpm

Coppia / Torque 71,17 Nm

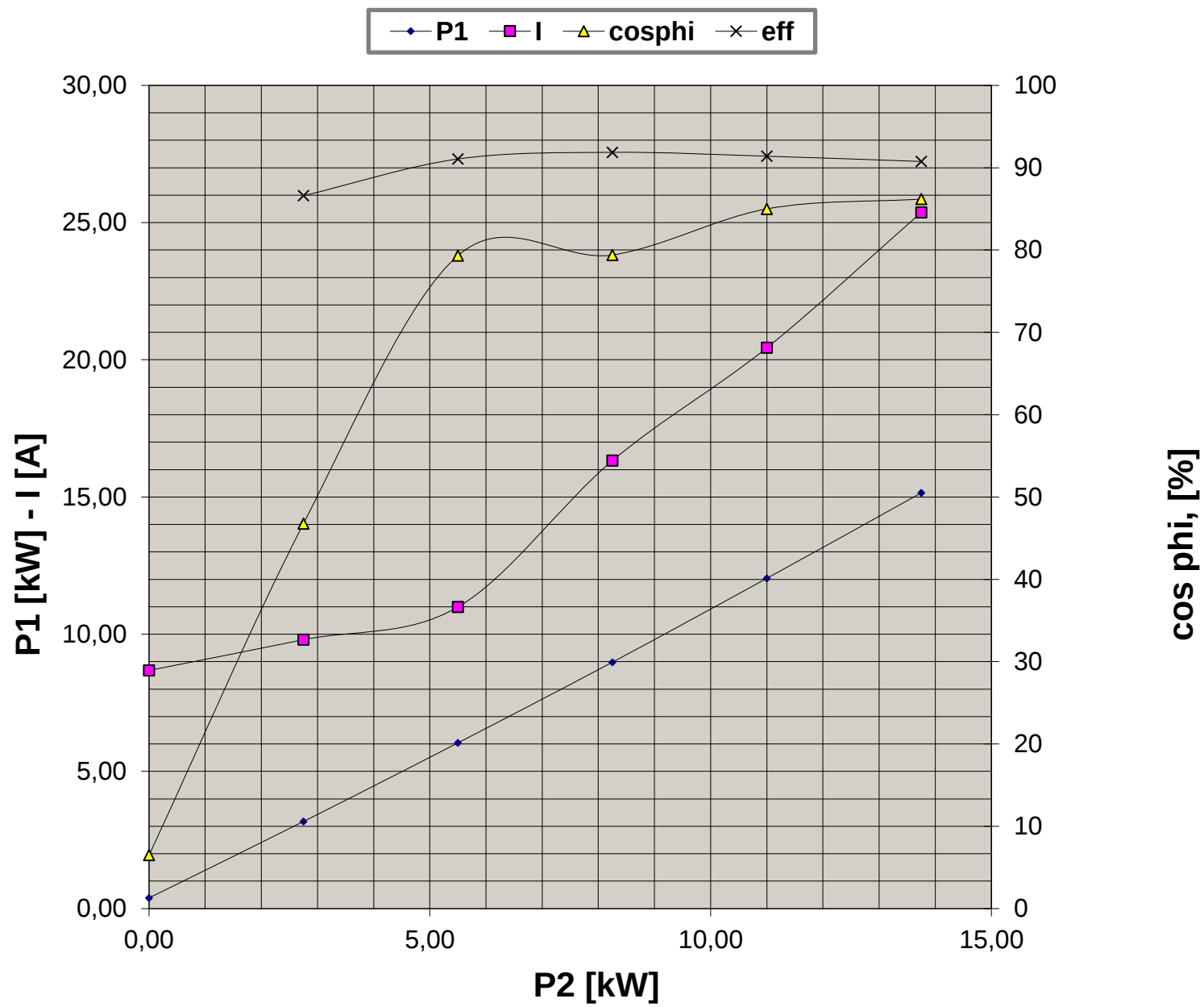
— COPPIA - TORQUE — CORRENTE - CURRENT
- - - COPPIA - TORQUE 80% Un - - - CORRENTE - CURRENT 80% Un



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 132ML 4	
Potenza nominale / Rated power	11,00	kW
Poli / Pole	4	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	20,66	A
Velocità / Speed	1476	rpm
Coppia / Torque	71,17	Nm



Valori calcolati - Data obtained by calculation method

Data / Date 28 January 2022

CURVA LIMITE CORRENTE TEMPO THERMAL WITHSTAND CURVE

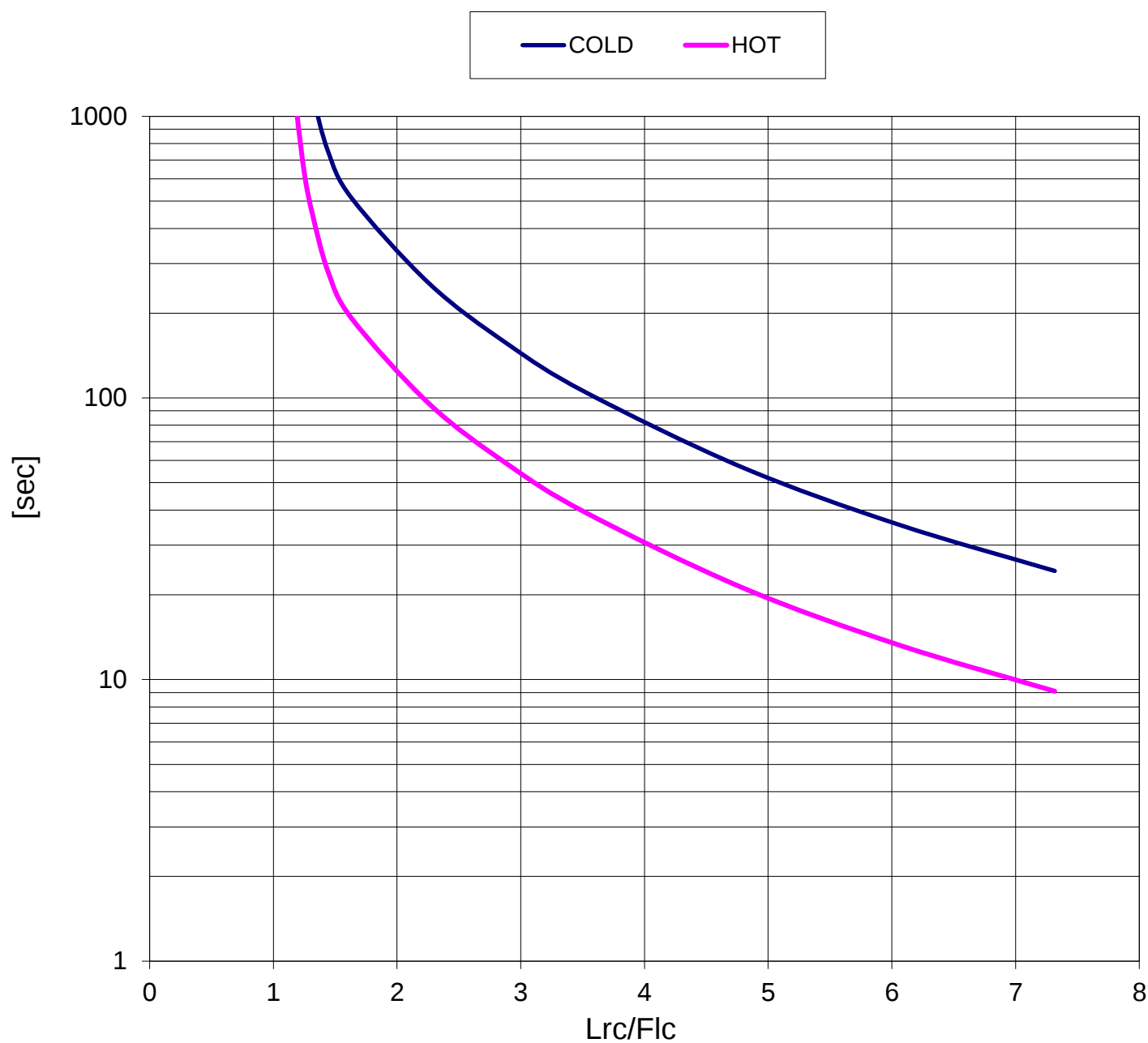
Cliente / Customer CEMP

Impianto / Plant -
ITEM -

Numero d'offerta / Offer Number 2021.
-

Motore / Motor E3AC30 132ML 4

Potenza nominale / Rated power	11,00	kW
Poli / Pole	4	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	20,66	A
Velocità / Speed	1476	rpm
Coppia / Torque	71,17	Nm



Valori calcolati - Data obtained by calculation method

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

Cliente / Customer CEMP

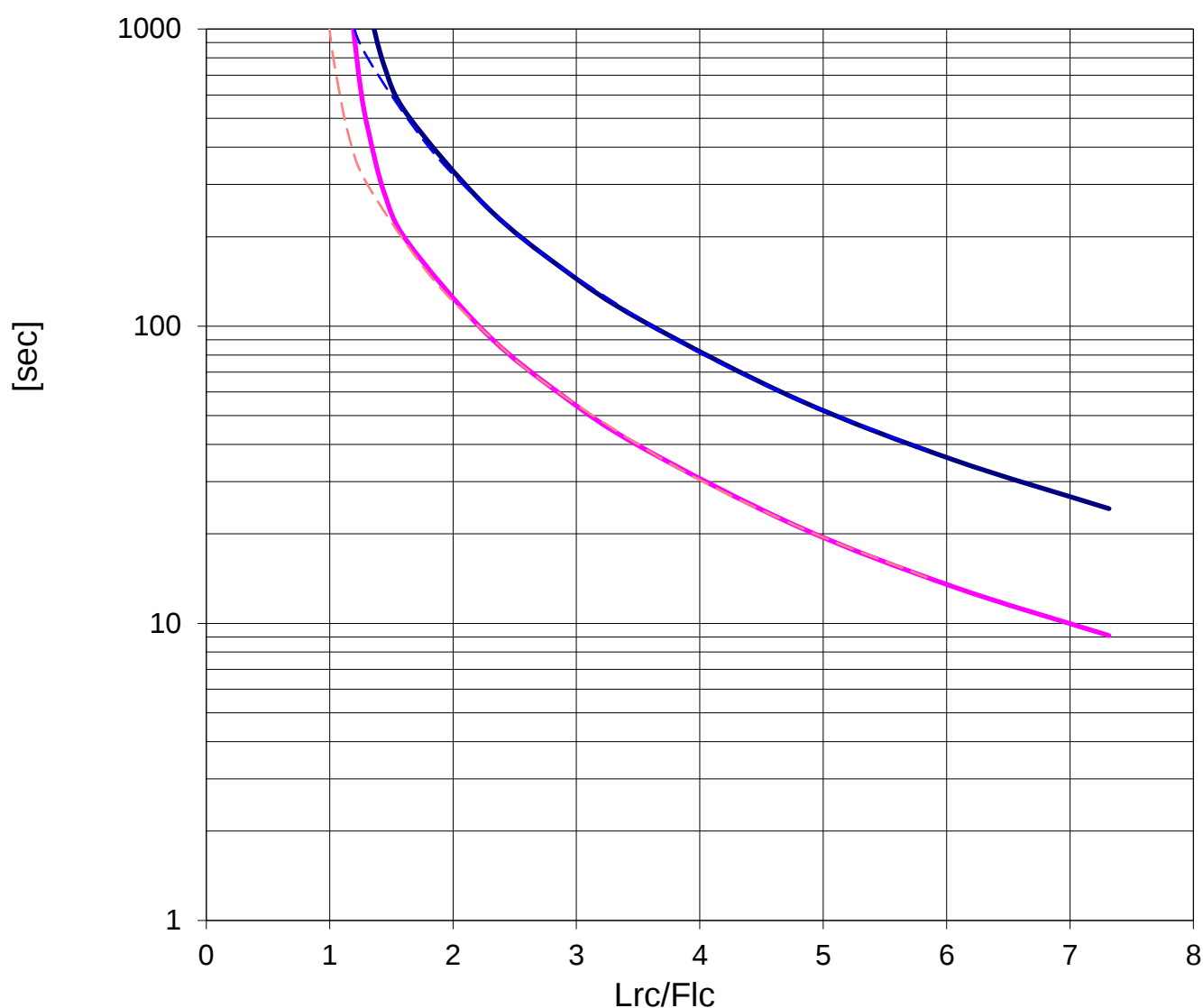
Impianto / Plant -
ITEM -

Numero d'offerta / Offer Number 2021.
-

Motore / Motor E3AC30 132ML 4

Potenza nominale / Rated power	11,00	kW
Poli / Pole	4	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	20,66	A
Velocità / Speed	1476	rpm
Coppia / Torque	71,17	Nm

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



Valori calcolati - Data obtained by calculation method