PRODUCT INFORMATION PACKET

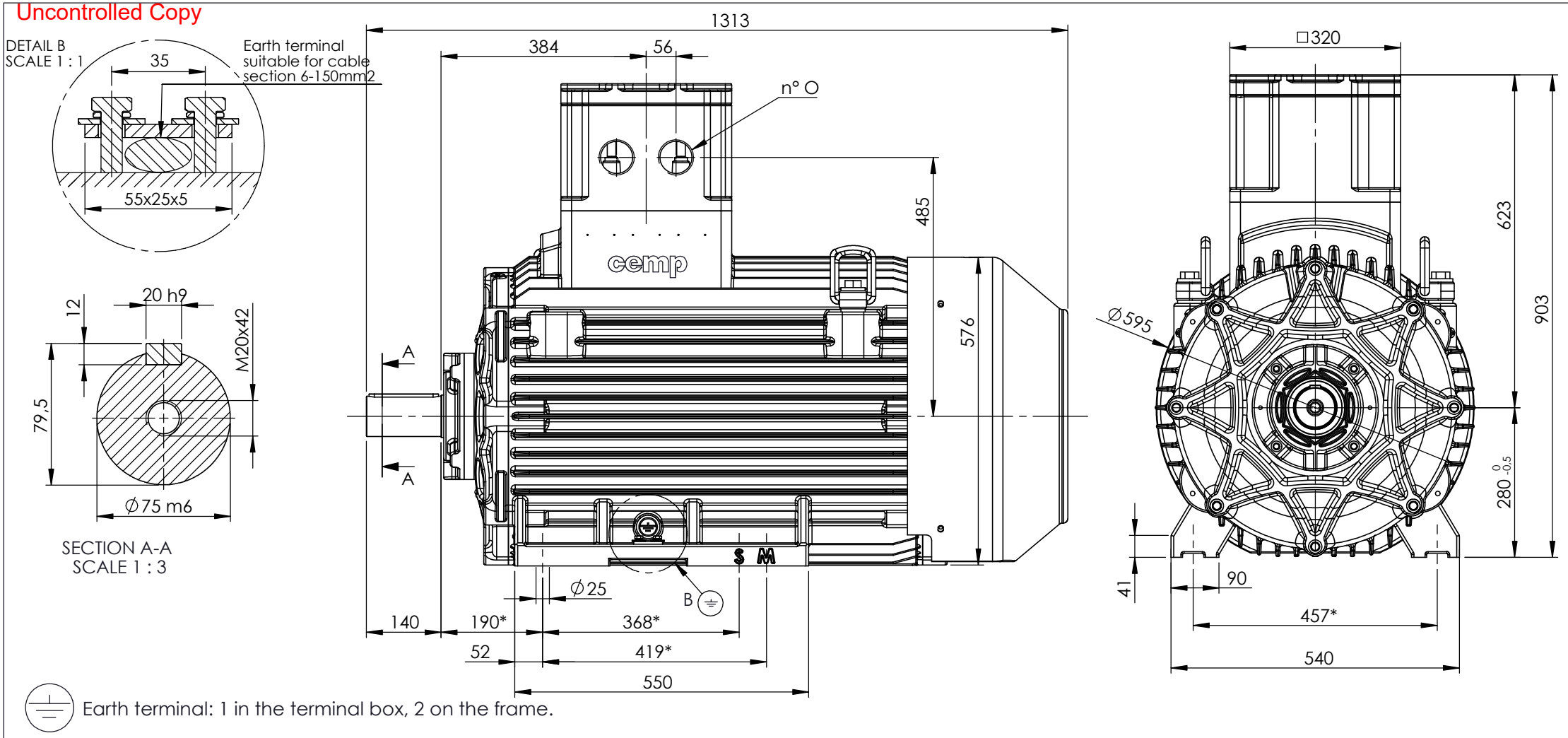
Model No: E3AB3006287B30D41100
Catalog No: E3AB3006287B30D41100
Made in Italy E3AB30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 75,00kW, 3 phase, 989 RPM, D400/Y690V 50Hz, 280MB Frame B3, 6 Poles, IC411, Higher Output Motor

Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	400/690 V
Current	139.0 A	Speed	989 rpm
Service Factor	1	Phase	3
Efficiency	94.6 %	Power Factor	0.82
Duty	S1	Insulation Class	F
Frame	280MB	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
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	B3	Motor Orientation	Horizontal
Drive End Bearing	Zz C3	Opp Drive End Bearing	Zz C3
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1489.00 mm	Frame Length	775.00 mm
Shaft Diameter	75.000 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Top		
Outline Drawing	B3A04E8280011A01	Connection Drawing	SC-01-T-1v-1a



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
ECO	APPROVED BY	DATE
ECO DESCRIPTION		

TOLERANCES (EXCEPT AS NOTED)
TOLERANCES: ±2
* TOLERANCES: ±0.8

DIMENSIONS ARE IN mm
ACCORDING TO IEC 60072

SERIAL NUMBER

DRAWN BY	DP
DATE	15/02/2017
APPROVED BY	DP
DATE	15/02/2017
REFERENCE	
FIRST ANGLE PROJECTION	

REGAL™ cemp

DESCRIPTION

Motor A280 MA/MB (L) 4-6-8P B3

SIZE	DRAWING NUMBER	SHEET
A4	B3A04E8280011A01	1 OF 2

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

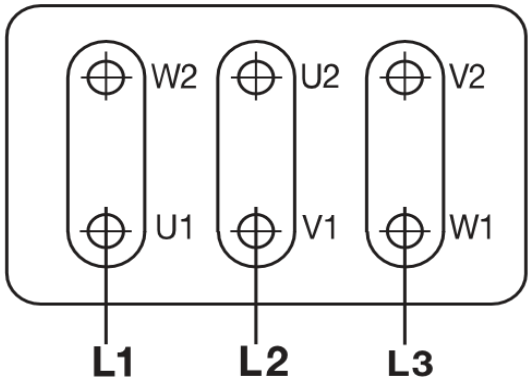
cemp
Flameproof Motors

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

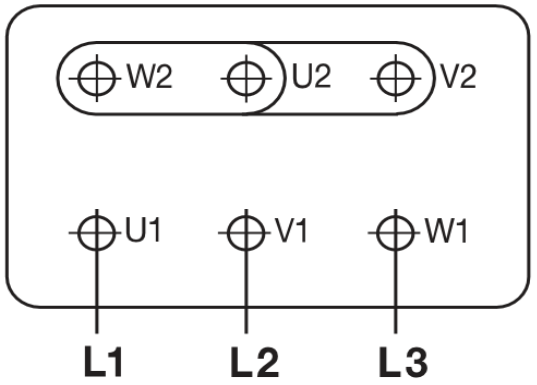
Collegamento - *Connection* - Connexion - *Schaltung* - Conexiòn

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

Regal Rexnord

cemp® Flameproof Motors

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	Ex db IIB T4 Gb	IP55
Type of protection		Scatola morsetti / Terminal box	Ex db IIB Gb	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 ± 5%	Frequenza / Frequency	50 Hz ± 2%

DATI FUNZIONALI E COSTRUTTIVI - PERFORMANCE AND CONSTRUCTION DATA

1	Quantità / Quantity		01
2	Motore tipo / Motor type		E3AB30 280MB 6
3	Numero di serie / Serial Number		-
4	Forma costruttiva / Shape		B3
5	Certificato / Certificate	TÜV CY	17 ATEX 0205845 X
6	Altro certificato / Other certificate		
	Dati nominali / Rated data		
7	Poli / Pole	n°	6
8	Potenza nominale / Rated power	kW	75,00
9	Corrente nominale / Rated current	A	139,00
10	Velocità nominale / Full Load speed	1/min	989
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	989	992	995	
19	Corr. / Curr.	A	139,00	108,55	82,59	
20	Rend / Eff	%	94,6	94,8	94,3	
21	cos φ	-	0,82	0,78	0,69	

	Performances all'avviamento / Starting performances		
22	Ia/In - LRC/FLC	%	600
23	Cosphi a rotore bloccato / LR power factor		0,32
	Tempo a rotore bloccato / LRWT		
24	100% Un (A caldo / Warm)	sec	27
25	(A freddo / Cold)	sec	63
26	80% Un (A caldo / Warm)	sec	43
27	(A freddo / Cold)	sec	98
	Tempo di avviamento ammissibile / ART		
28	100% Un	sec	55
29	80% Un	sec	86
	Curva di coppia / Speed-torque values		
30	Coppia nominale / Rated Torque	Nm	724,22
31	Ca/Cn - LRT/FLT	%	180
32	Cmax/Cn - BDT/FLT	%	240
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	-	6316 ZZ C3
45	Cuscinetto post / NDE bearing	-	6316 ZZ C3
46	Carico radiale max / Max radial load in X1	N	6300
47	Carico assiale max / Max axial load	N	4550
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	990,4
52	Momento d'inerzia / Moment of inertia	kgm2	2,3543
53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A)	72
54	Vibrazioni / Vibration level	IEC 34-14	A
55	Limite norma / Vibration limit	mm/sec	2,20
56			
57			
58			
59			
60			
61			
62			
	Dati entrata cavi - verniciatura / Cable entry and painting		
63	Entrata cavi / Cable entry		2xM63
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

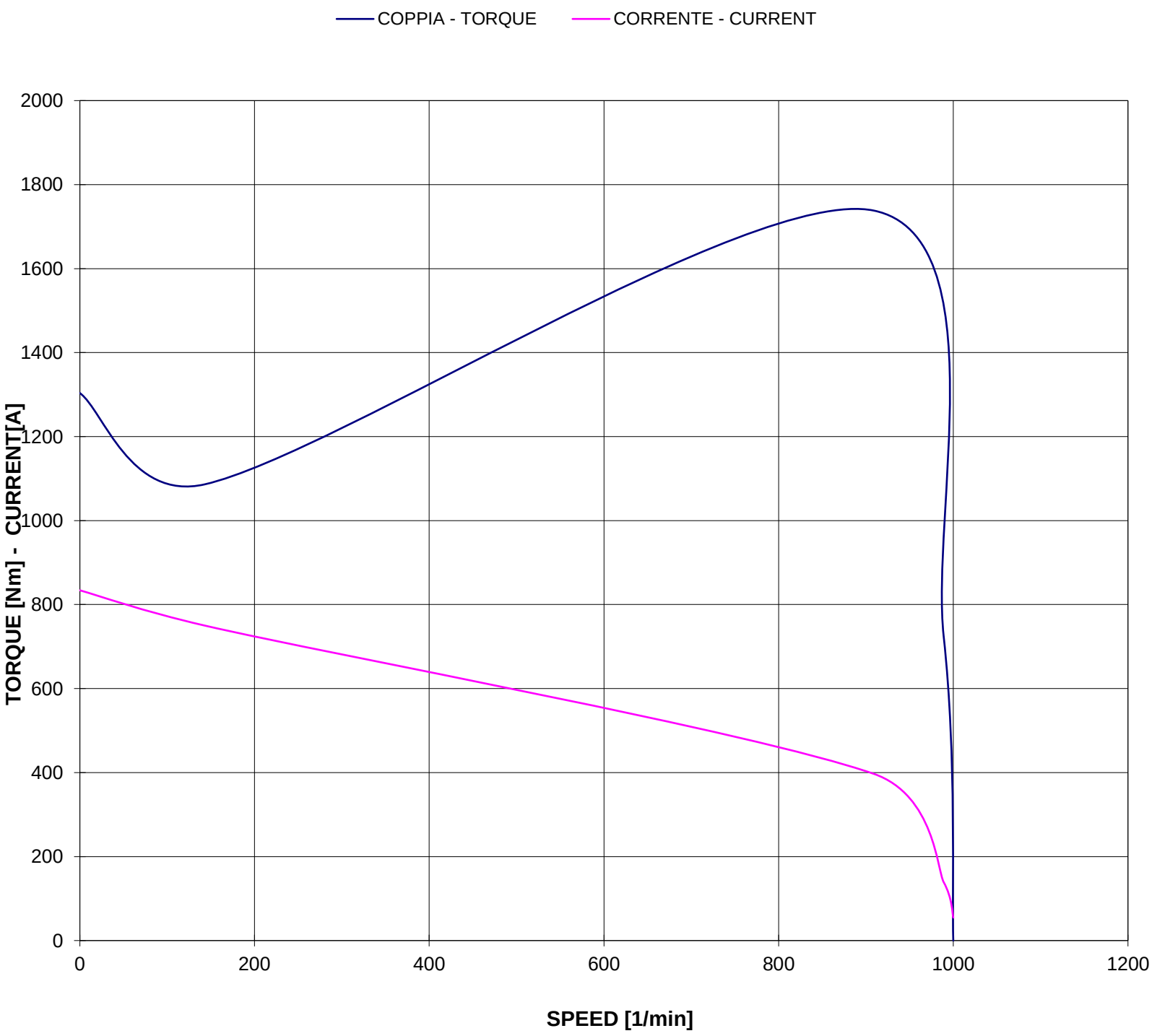
MOD. 803

Prepared by : AP Tolleranze secondo - Tolerances according IEC 60034-1 Rev. 0 Data / Date 28 January 2022

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

Cliente / Customer	CEMP
Impianto / Plant	-
ITEM	**-**
Numero d'offerta / Offer Number	2021. -

Motore / Motor	**E3AB30 280MB 6**	
Potenza nominale / Rated power	75,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	139,00	A
Velocità / Speed	989	rpm
Coppia / Torque	724,22	Nm



Valori calcolati - Data obtained by calculation method

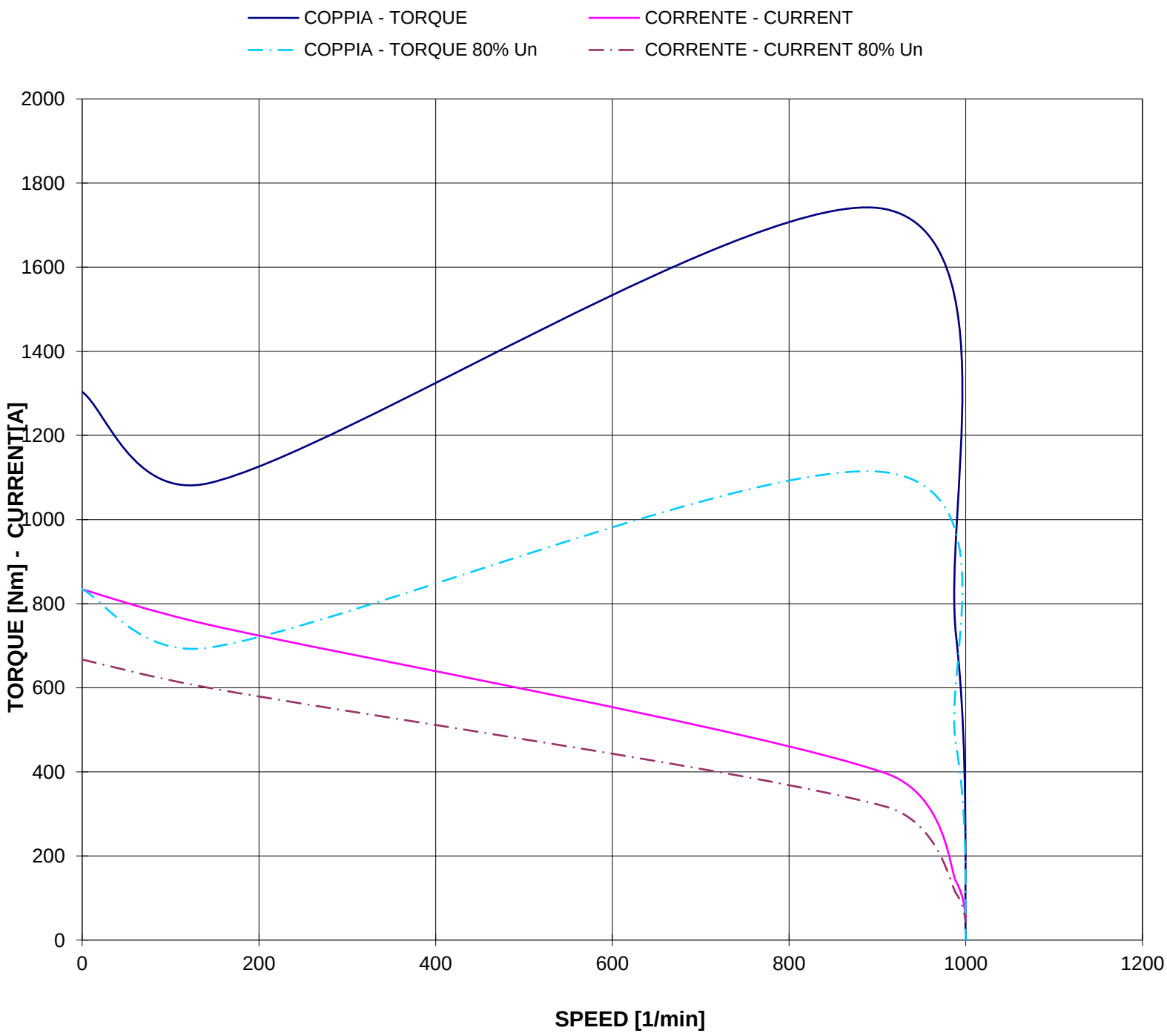
MOD-600

Data / Date 28 January 2022

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	**E3AB30 280MB 6**	
Potenza nominale / Rated power	75,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	139,00	A
Velocità / Speed	989	rpm
Coppia / Torque	724,22	Nm



Valori calcolati - Data obtained by calculation method

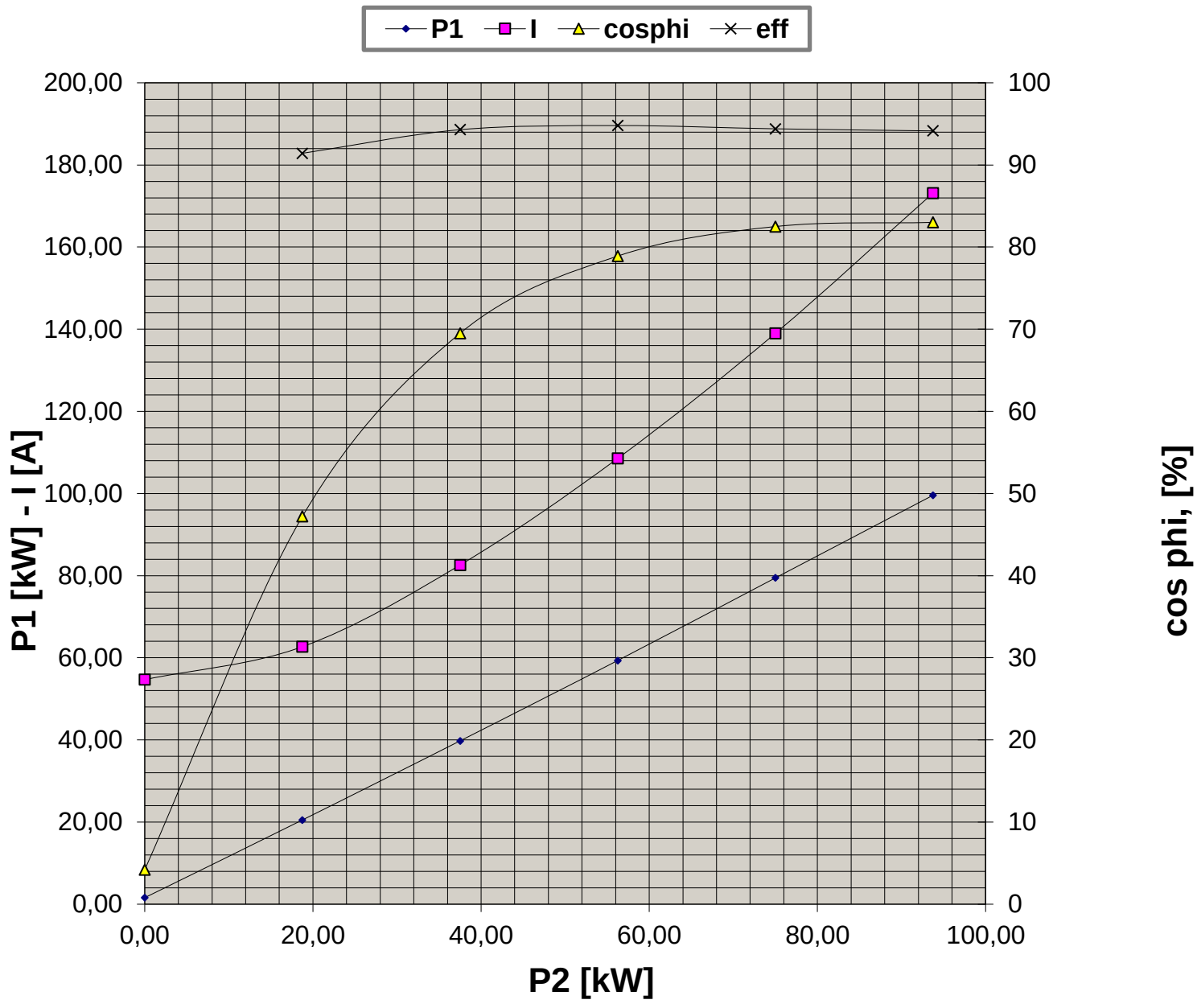
MOD-602

Data / Date 28 January 2022

CURVE CARATTERISTICHE
PERFORMANCE CURVES

Cliente / Customer	CEMP
Impianto / Plant	-
ITEM	**-**
Numero d'offerta / Offer Number	2021.
	-

Motore / Motor	**E3AB30 280MB 6**	
Potenza nominale / Rated power	75,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	139,00	A
Velocità / Speed	989	rpm
Coppia / Torque	724,22	Nm



Valori calcolati - Data obtained by calculation method

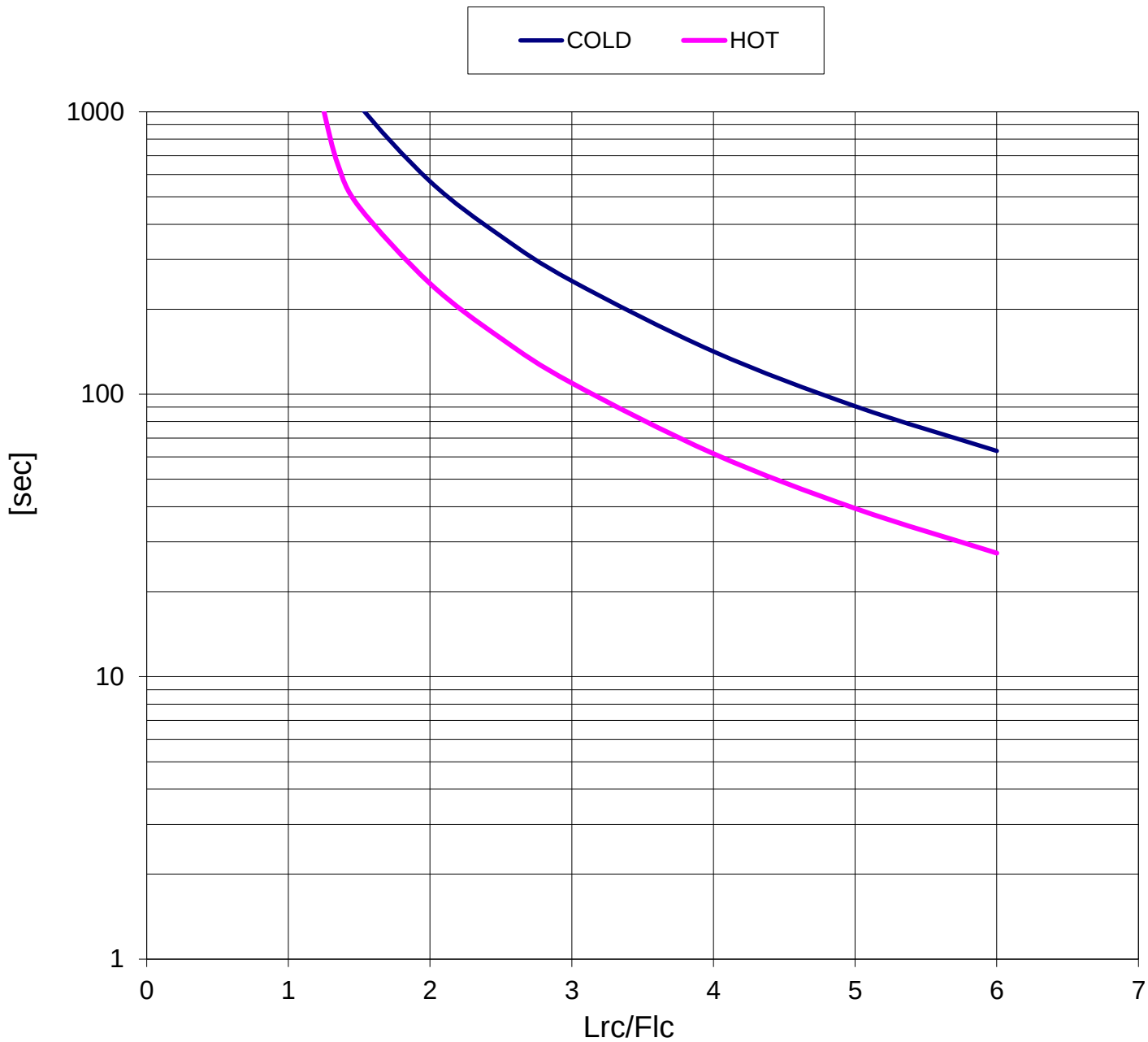
MOD-700

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	**E3AB30 280MB 6**	
Potenza nominale / Rated power	75,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	139,00	A
Velocità / Speed	989	rpm
Coppia / Torque	724,22	Nm



Valori calcolati - Data obtained by calculation method

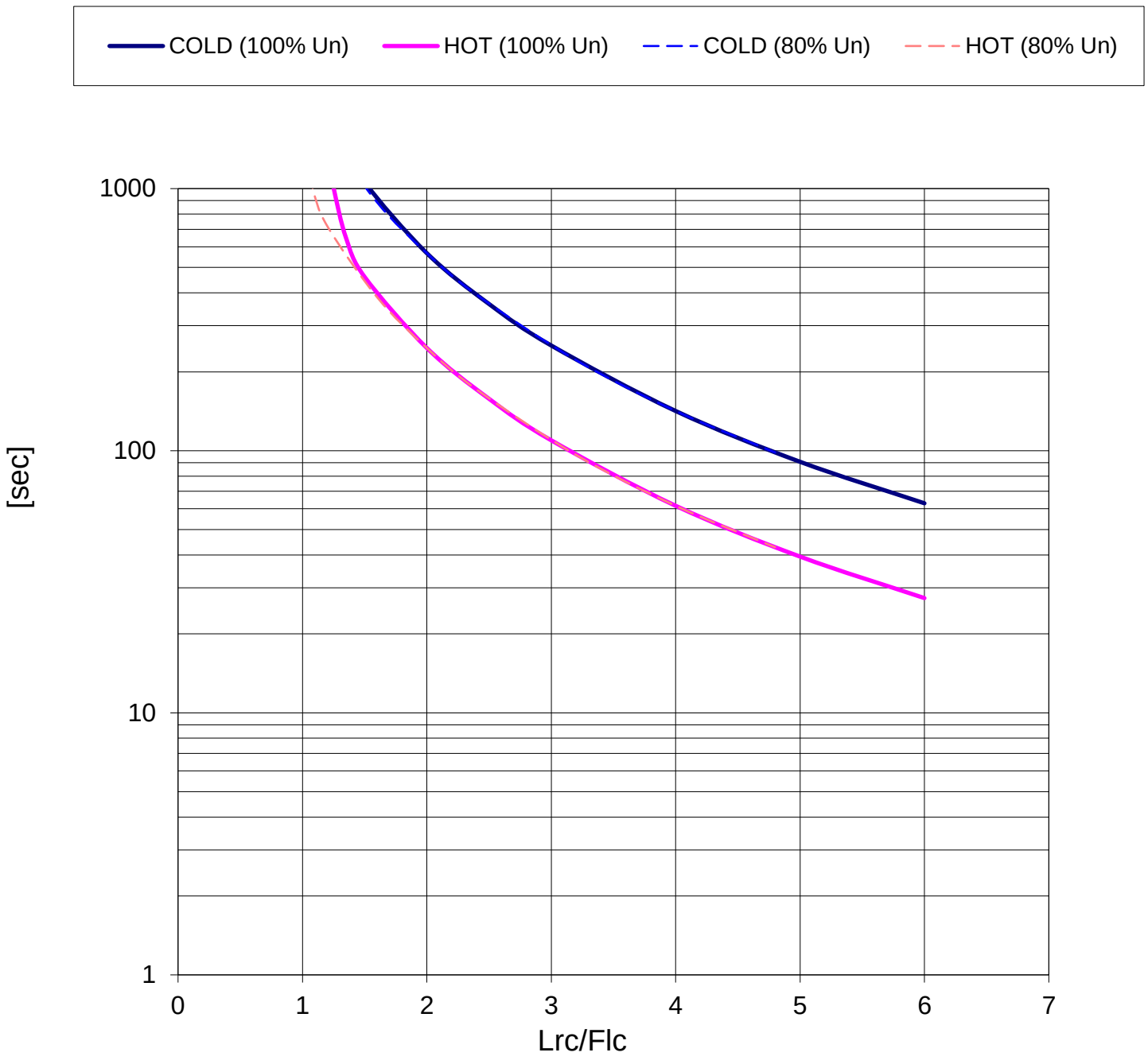
MOD-900

Data / Date 28 January 2022

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	**E3AB30 280MB 6**	
Potenza nominale / Rated power	75,00	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	139,00	A
Velocità / Speed	989	rpm
Coppia / Torque	724,22	Nm



Valori calcolati - Data obtained by calculation method

MOD-901

Data / Date 28 January 2022