

PRODUCT INFORMATION PACKET

Model No: E3AC3002061B35S41100

Catalog No: E3AC3002061B35S41100

Made in Italy E3AC30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 0,18kW,
3 phase, 2880 RPM, D230/Y400V 50Hz, 63A Frame B35, 2 Poles, IC411



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Nameplate Specifications

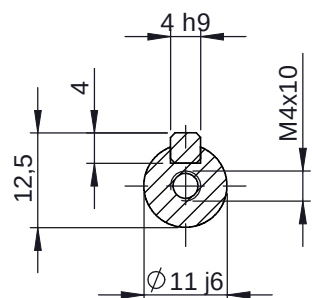
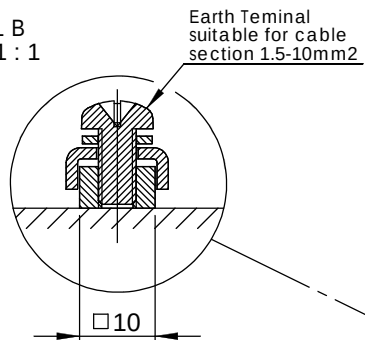
Phase	3	Output HP	0.241384 Hp
Output KW	0.18 kW	Voltage	230/400 V
Speed	2880 rpm	Service Factor	1
Frame	63A	Enclosure	Totally Enclosed Fan Cooled
Efficiency	65.9 %	Ambient Temperature	40 °C
Frequency	50 Hz	Power Factor	0.55
Duty	S1	Insulation Class	F
Drive End Bearing Size	6202	Opp Drive End Bearing Size	6202
UL	No	CSA	No
CE	Yes	IP Code	IP55
Number of Speeds	1		

Technical Specifications

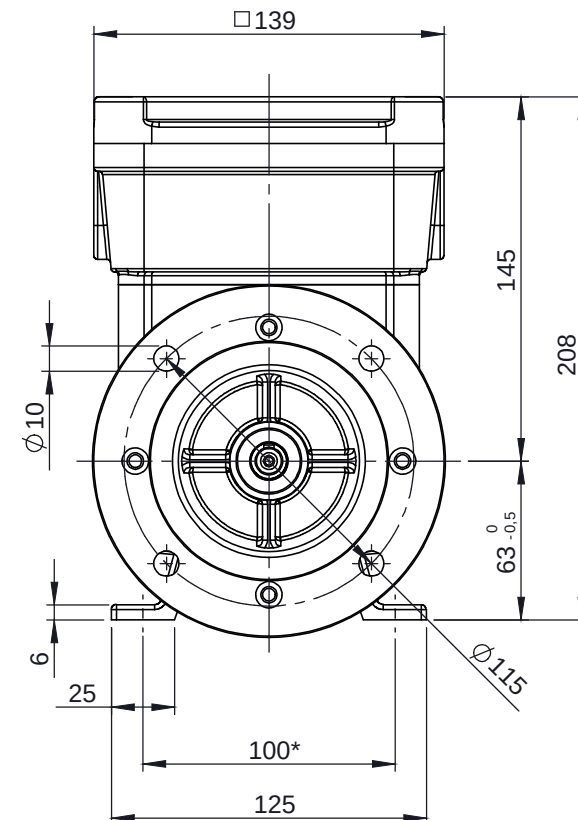
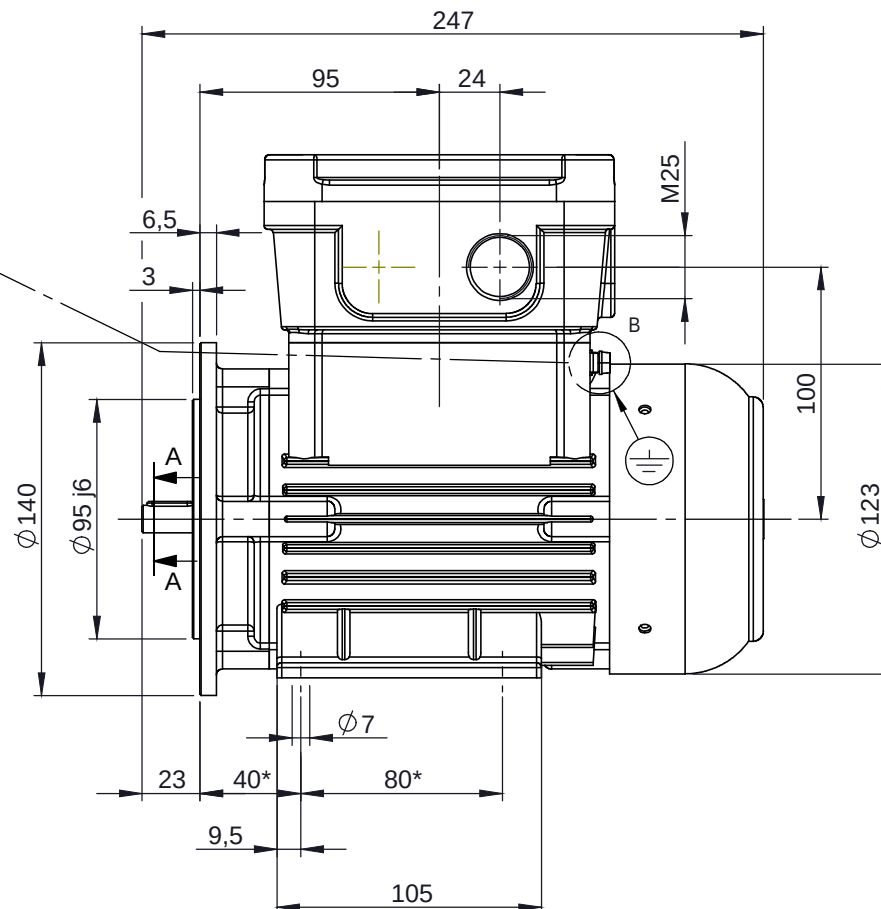
Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	Zz	Opp Drive End Bearing	Zz
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	275.50 mm	Frame Length	105.00 mm
Shaft Diameter	11.000 mm	Shaft Extension	23 mm
Assembly/Box Mounting	Top		
Connection Drawing	SC-01-T-1v-1a	Outline Drawing	B3A048060001D01

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DETAIL B
SCALE 1 : 1



SECTION A-A
SCALE 1 : 1

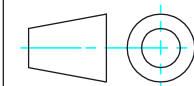


N.B.
Dimensions in mm. according to IEC 60072
Tolerances where not differently marked $\pm 2\text{mm}$.
* Tolerances ± 0.8



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

Customer reference and additional information:



Dimensions in mm
Tolerances allowed

Frame size: **63**

Document N.**B3A048060001D01** - Date 28/11/2008

Issued by G.Toscano - Approved by A.Madaschi

Cemp - Senago (Italy)

Rev.

0

Motor type and description

cemp
Flameproof
Motors

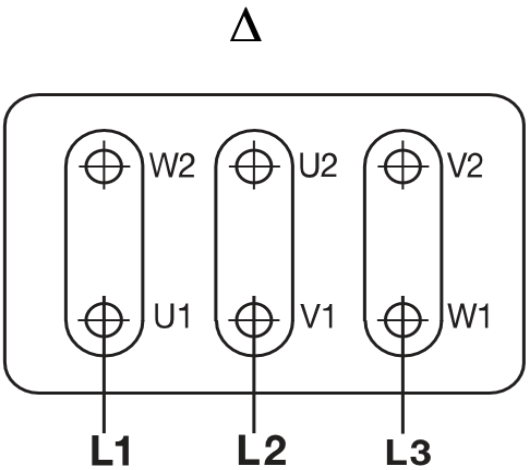
Schema di collegamento - *Connection diagram*
Schemas de branchement - *Schaltplan*
Esquemas de conexión



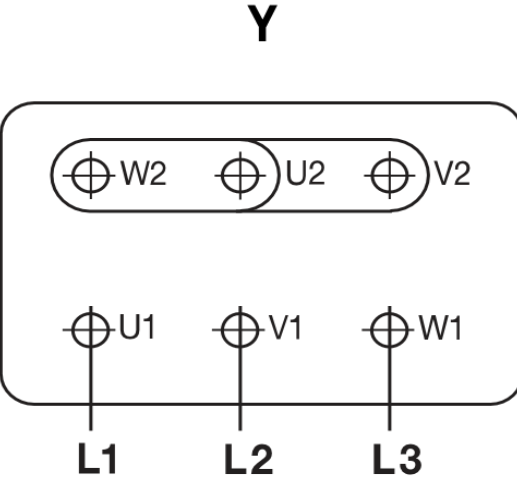
DTE 01/01/2004
SC - 01 - T - 1v.doc

**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
Offerta / Offer
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				AC30r 63A 2	
3	Numero di serie / Serial Number					
4	Forma costruttiva / Shape				B35	
5	Certificato / Certificate			TUV IT	14ATEX050X	
6	Altro certificato / Other certificate					
Dati nominali / Rated data						
7	Poli / Pole			n°	2	
8	Potenza nominale / Rated power			kW	0,18	
9	Corrente nominale / Rated current			A	0,72	
10	Velocità nominale / Full Load speed			1/min	2880	
11	Collegamento / Winding connection				Y	
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	2880	2913	2941	
19	Corr. / Curr.	A	0,72	0,70	0,68	
20	Rend / Eff	%	65,9	61,5	52,7	
21	cos φ	-	0,55	0,45	0,36	
Performances all'avviamento / Starting performances						
22	Ia/In - LRC/FLC			%	390	
23	Cosphi a rotore bloccato / LR power factor				0,97	
	Tempo a rotore bloccato / LRWT					
24	100% Un (A caldo / Warm)			sec	22	
25	(A freddo / Cold)			sec	33	
26	80% Un (A caldo / Warm)			sec	35	
27	(A freddo / Cold)			sec	52	
	Tempo di avviamento ammissibile / ART					
28	100% Un			sec	29	
29	80% Un			sec	45	
Curva di coppia / Speed-torque values						
30	Coppia nominale / Rated Torque			Nm	0,60	
31	Ca/Cn - LRT/FLT			%	420	
32	Cmax/Cn - BDT/FLT			%	445	
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	- 6202 ZZ
45	Cuscinetto post / NDE bearing	- 6202 ZZ
46	Carico radiale max / Max radial load in X1	N 360
47	Carico assiale max / Max axial load	N 120
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 16
52	Momento d'inerzia / Moment of inertia	kgm2 0,0001
53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A) 52
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	IEC 60423 1xM25
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

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

Cliente / Customer -

Impianto / Plant -

ITEM -

Numero d'offerta / Offer Number -

Motore / Motor

AC30r 63A 2

Potenza nominale / Rated power 0,18 kW

Poli / Pole 2

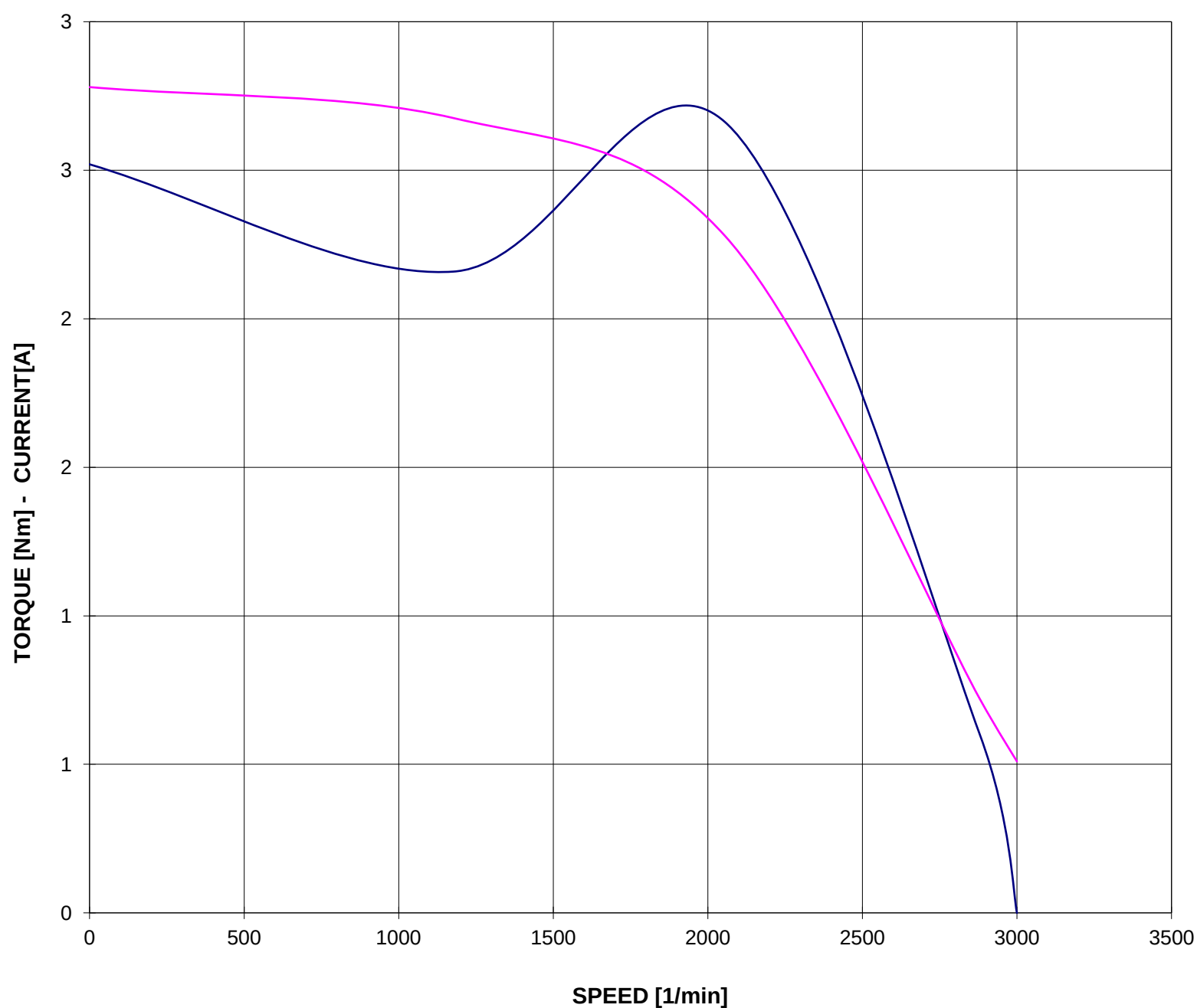
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz

Corrente / Rated current 0,72 A

Velocità / Speed 2880 rpm

Coppia / Torque 0,60 Nm

— COPPIA - TORQUE — CORRENTE - CURRENT



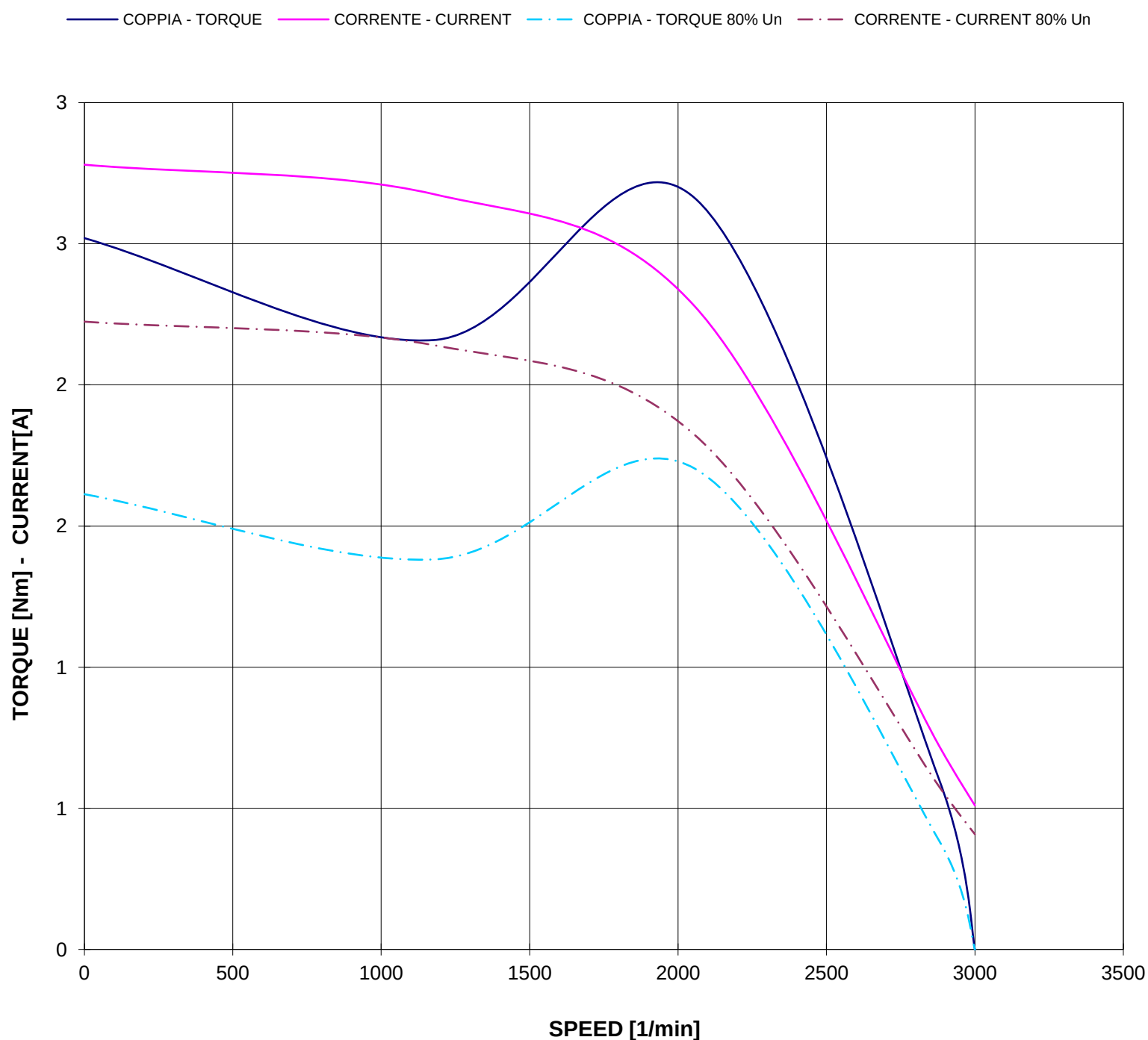
Valori calcolati - Data obtained by calculation method
Documento preliminare - Preliminary document

Data / Date 28-gen-22

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

Cliente / Customer -
Impianto / Plant -
ITEM -
Numero d'offerta / Offer Number -

Motore / Motor **AC30r 63A 2**
Potenza nominale / Rated power 0,18 kW
Poli / Pole 2
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz
Corrente / Rated current 0,72 A
Velocità / Speed 2880 rpm
Coppia / Torque 0,60 Nm



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

Data / Date 28-gen-22

CURVE CARATTERISTICHE PERFORMANCE CURVES

Cliente / Customer

-

Impianto / Plant

-

ITEM

-

Numero d'offerta / Offer Number

-

Motore / Motor

AC30r 63A 2

Potenza nominale / Rated power

0,18

kW

Poli / Pole

2

Tensione - Frequenza / Voltage - Frequency

400 - 50

V - Hz

Corrente / Rated current

0,72

A

Velocità / Speed

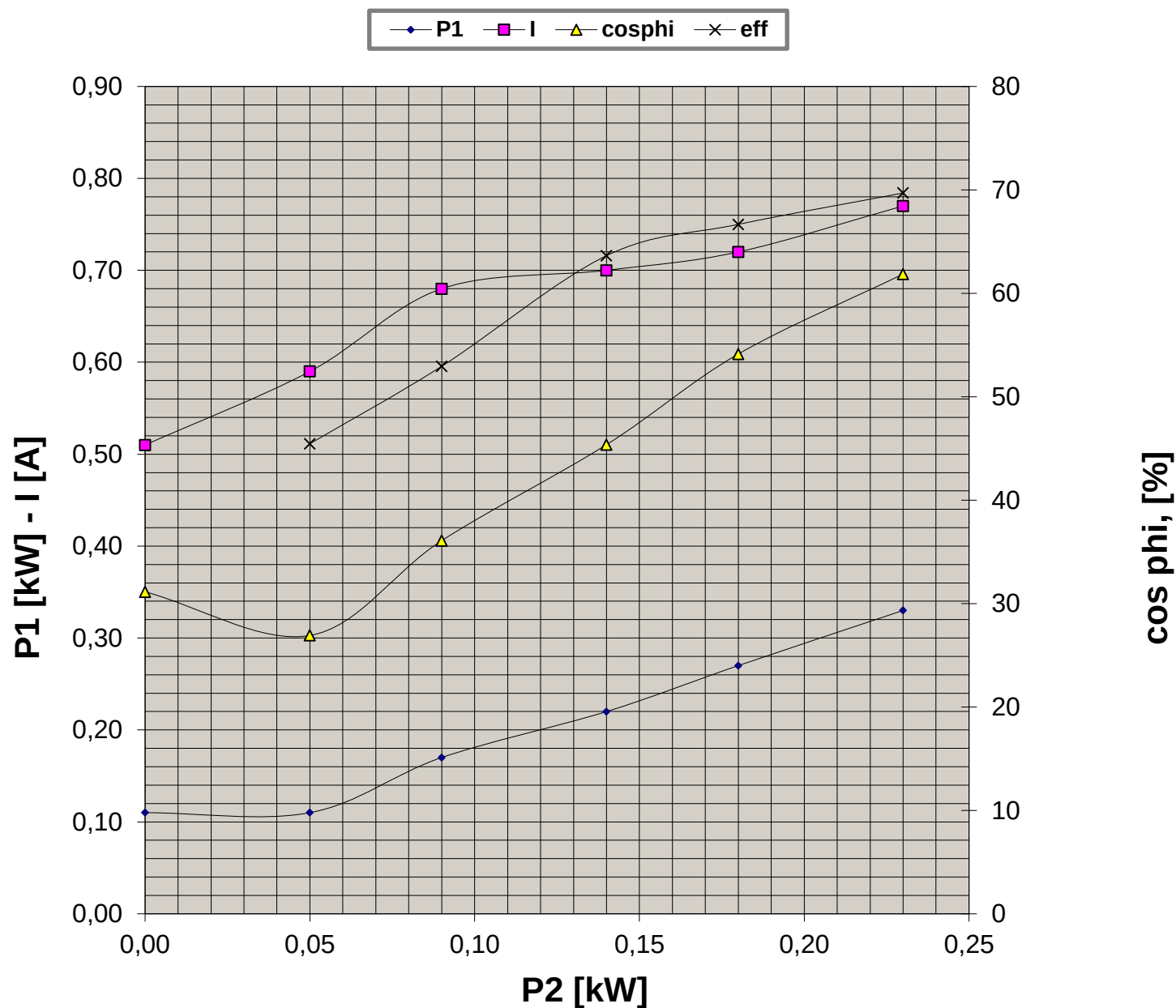
2880

rpm

Coppia / Torque

0,60

Nm



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

Data / Date 28-gen-22

CURVA LIMITE CORRENTE TEMPO
THERMAL WITHSTAND CURVE

Cliente / Customer -

Impianto / Plant -

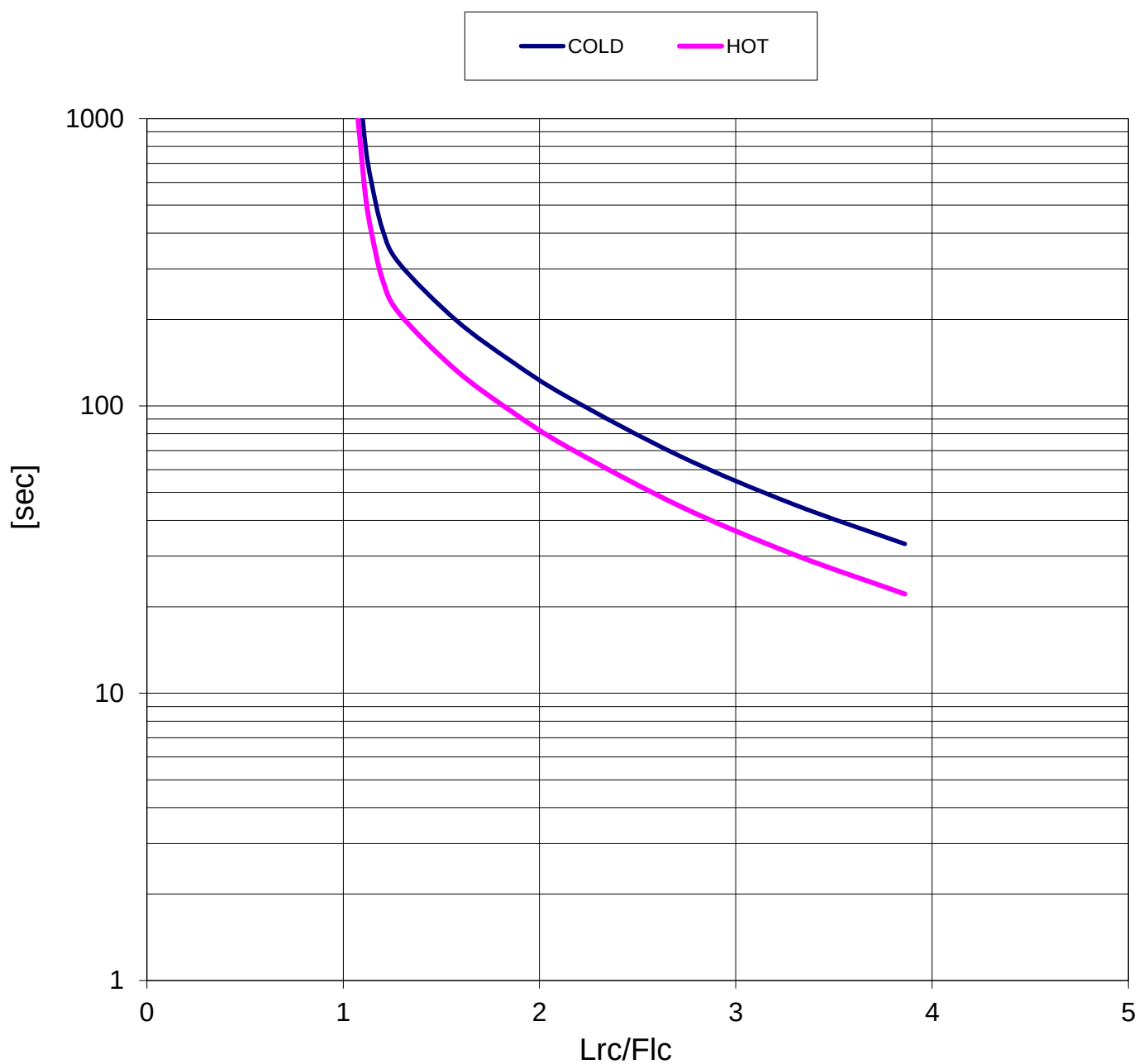
ITEM -

Numero d'offerta / Offer Number -

Motore / Motor

AC30r 63A 2

Potenza nominale / Rated power	0,18	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	0,72	A
Velocità / Speed	2880	rpm
Coppia / Torque	0,60	Nm



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

Data / Date 28-gen-22

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

Cliente / Customer -

Impianto / Plant -

ITEM -

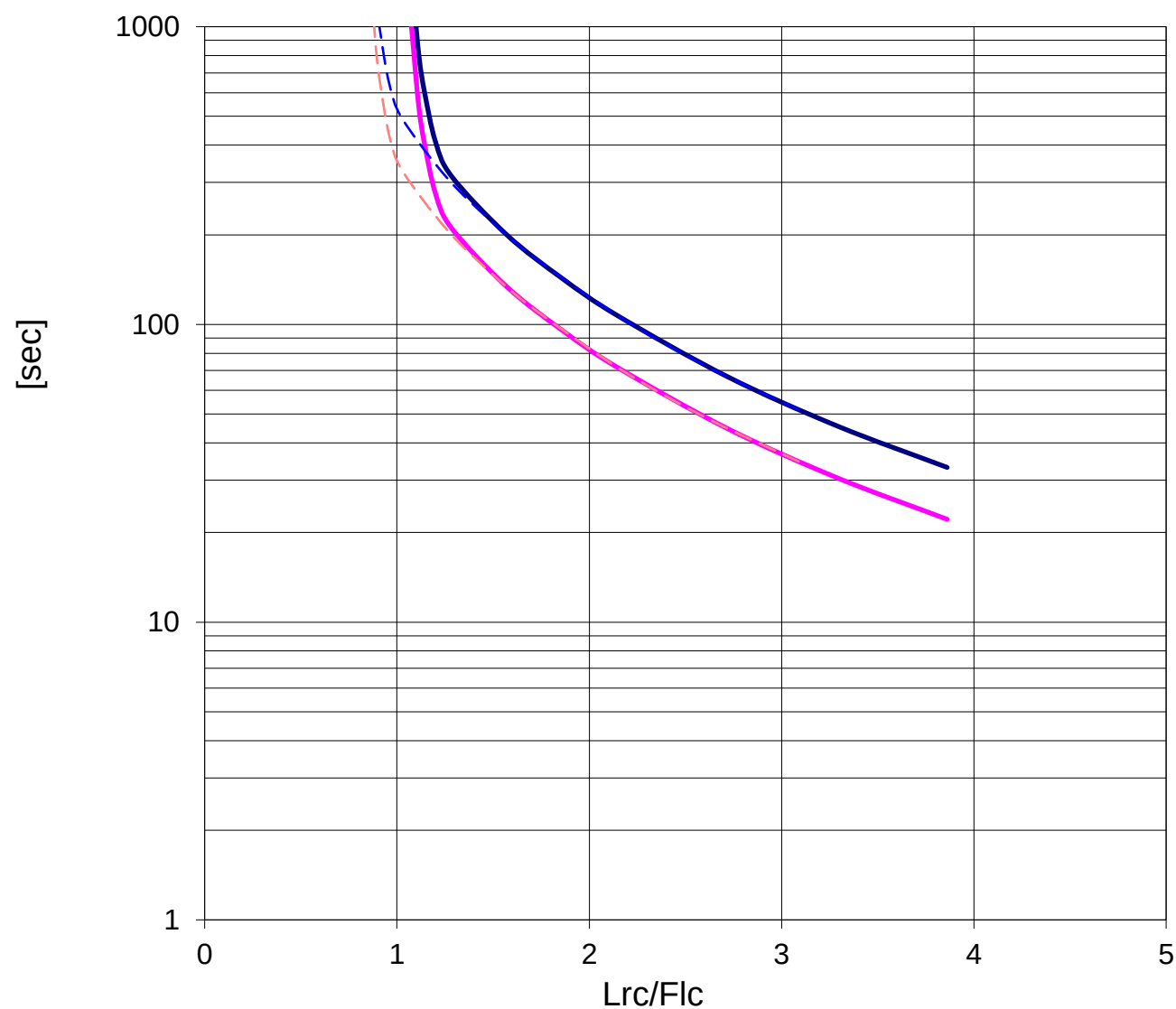
Numero d'offerta / Offer Number -

Motore / Motor

AC30r 63A 2

Potenza nominale / Rated power	0,18	kW
Poli / Pole	2	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	0,72	A
Velocità / Speed	2880	rpm
Coppia / Torque	0,60	Nm

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



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

Data / Date 28-gen-22