

PRODUCT INFORMATION PACKET

Model No: E3AC3006081B35S41100

Catalog No: E3AC3006081B35S41100

Made in Italy E3AC30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 0,37kW,
3 phase, 965 RPM, D230/Y400V 50Hz, 80A Frame B35, 6 Poles, IC411



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Nameplate Specifications

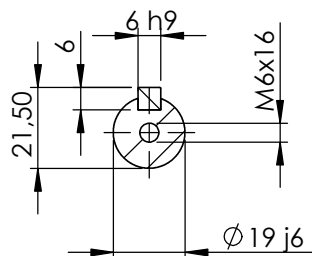
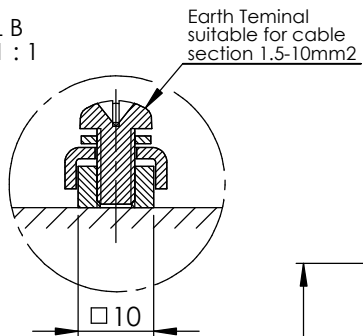
Phase	3	Output HP	0.4961782 Hp
Output KW	0.37 kW	Voltage	230/400 V
Speed	965 rpm	Service Factor	1
Frame	80A	Enclosure	Totally Enclosed Fan Cooled
Efficiency	73.5 %	Ambient Temperature	40 °C
Frequency	50 Hz	Power Factor	0.64
Duty	S1	Insulation Class	F
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
UL	No	CSA	No
CE	Yes	IP Code	IP55
Number of Speeds	1		

Technical Specifications

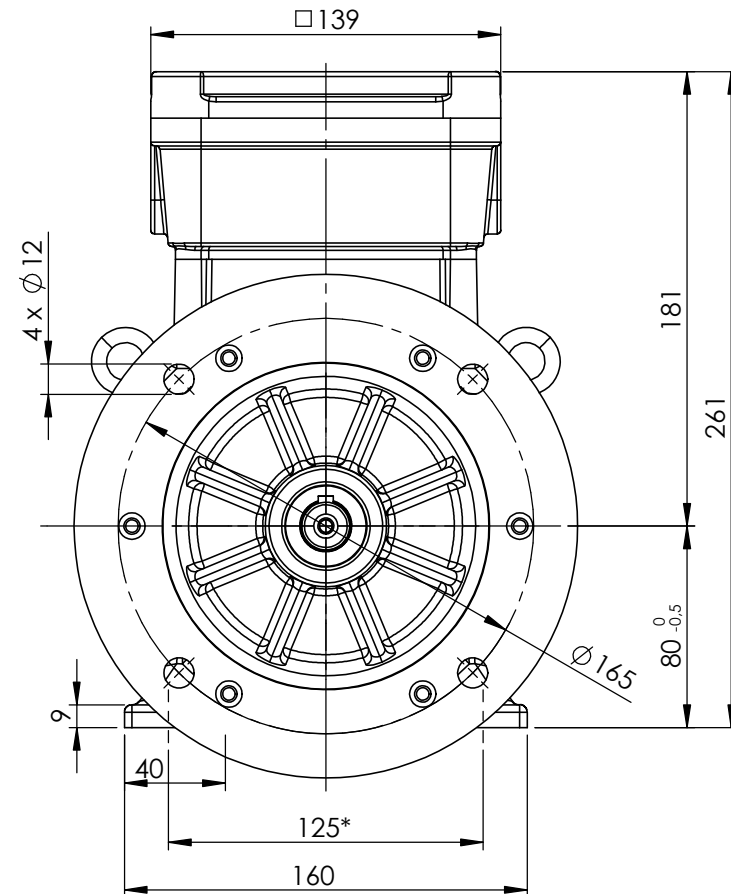
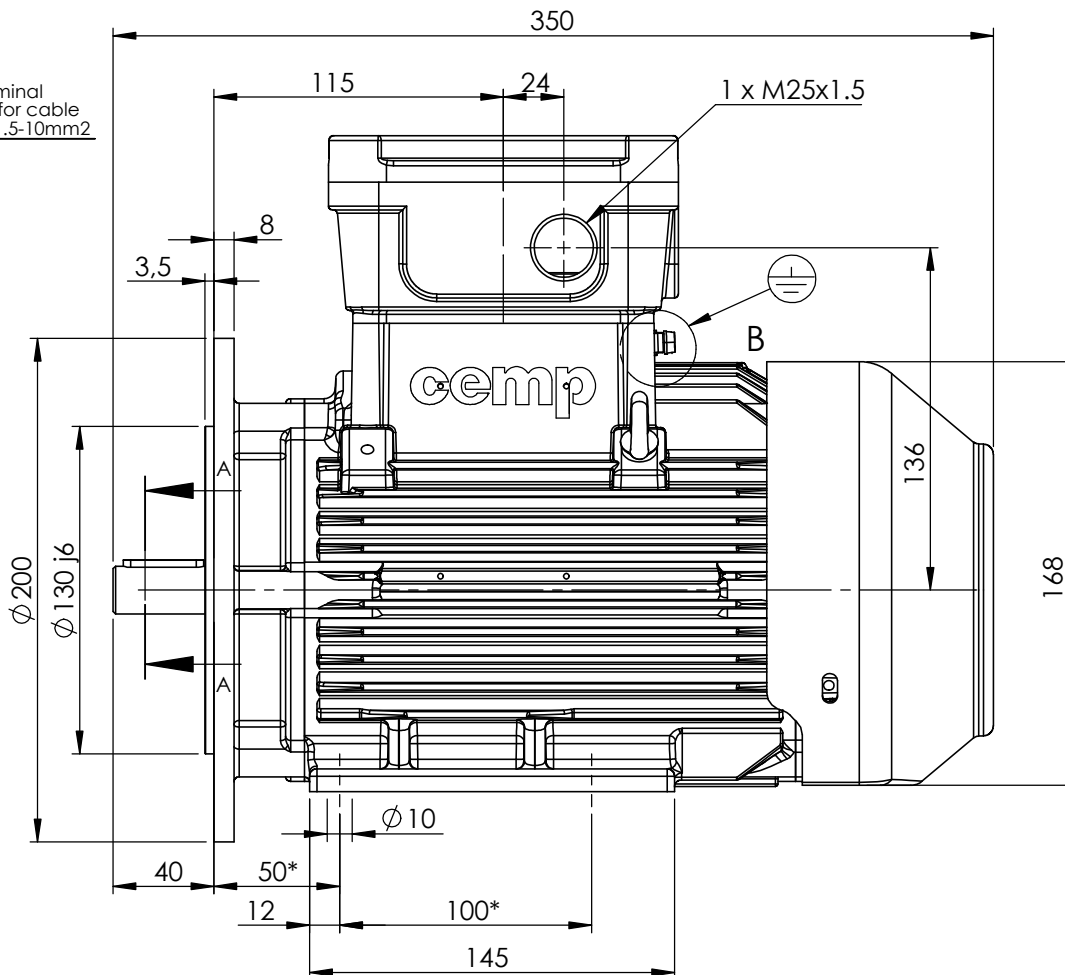
Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B35	Motor Orientation	Horizontal
Drive End Bearing	Zz	Opp Drive End Bearing	Zz
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	373.00 mm	Frame Length	130.00 mm
Shaft Diameter	19.000 mm	Shaft Extension	40 mm
Assembly/Box Mounting	Top		
Outline Drawing	B3A04E8080001D01	Connection Drawing	SC-01-T-1v-1a

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DETAIL B
SCALE 1 : 1



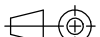
SEZIONE A-A
SCALA 1 : 2



Earth terminal: 1 in the terminal box, 1 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 DP				
ECO	APPROVED BY	DATE		DATE 27/12/2016				
ECO DESCRIPTION				APPROVED BY DP	DESCRIPTION Motor A80 MB (L) B35 IE3			
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			SERIAL NUMBER	REFERENCE		SIZE A4	DRAWING NUMBER B3A04E8080001D01	SHEET 1 OF 2
			FIRST ANGLE PROJECTION					

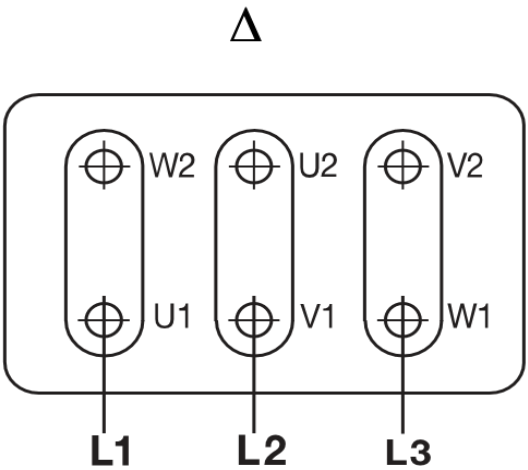
Schema di collegamento - *Connection diagram*
Schemas de branchement - *Schaltplan*
Esquemas de conexión



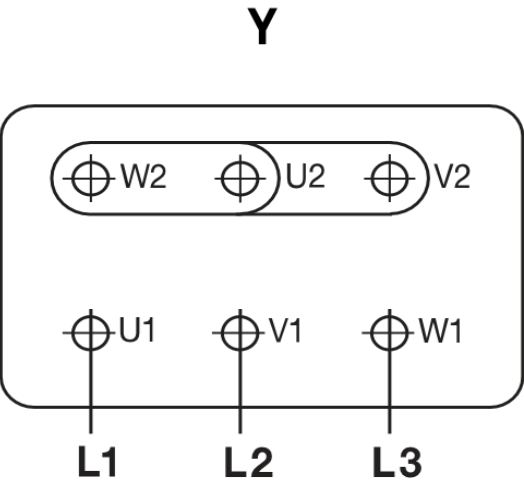
DTE 01/01/2004
SC - 01 - T - 1v.doc

**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 80A 6
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°	6
8	Potenza nominale / Rated power	kW	0,37
9	Corrente nominale / Rated current	A	0,99
10	Velocità nominale / Full Load speed	1/min	933
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
18	Giri / Speed	1/min	933
19	Corr. / Curr.	A	0,99
20	Rend / Eff	%	73,5
21	cos φ	-	0,74
Performances all'avviamento / Starting performances			
22	Ia/In - LRC/FLC	%	425
23	Cosphi a rotore bloccato / LR power factor		0,72
	Tempo a rotore bloccato / LRWT		
24	100% Un (A caldo / Warm)	sec	15
25	(A freddo / Cold)	sec	33
26	80% Un (A caldo / Warm)	sec	23
27	(A freddo / Cold)	sec	51
	Tempo di avviamento ammissibile / ART		
28	100% Un	sec	28
29	80% Un	sec	44
Curva di coppia / Speed-torque values			
30	Coppia nominale / Rated Torque	Nm	3,79
31	Ca/Cn - LRT/FLT	%	220
32	Cmax/Cn - BDT/FLT	%	245
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	- 6204 ZZ
45	Cuscinetto post / NDE bearing	- 6204 ZZ
46	Carico radiale max / Max radial load in X1	N 660
47	Carico assiale max / Max axial load	N 220
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 26
52	Momento d'inerzia / Moment of inertia	kgm2 0,0022
53	Rumore a vuoto / Noise at no load (1 m)	Lp dB(A) 46
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 -

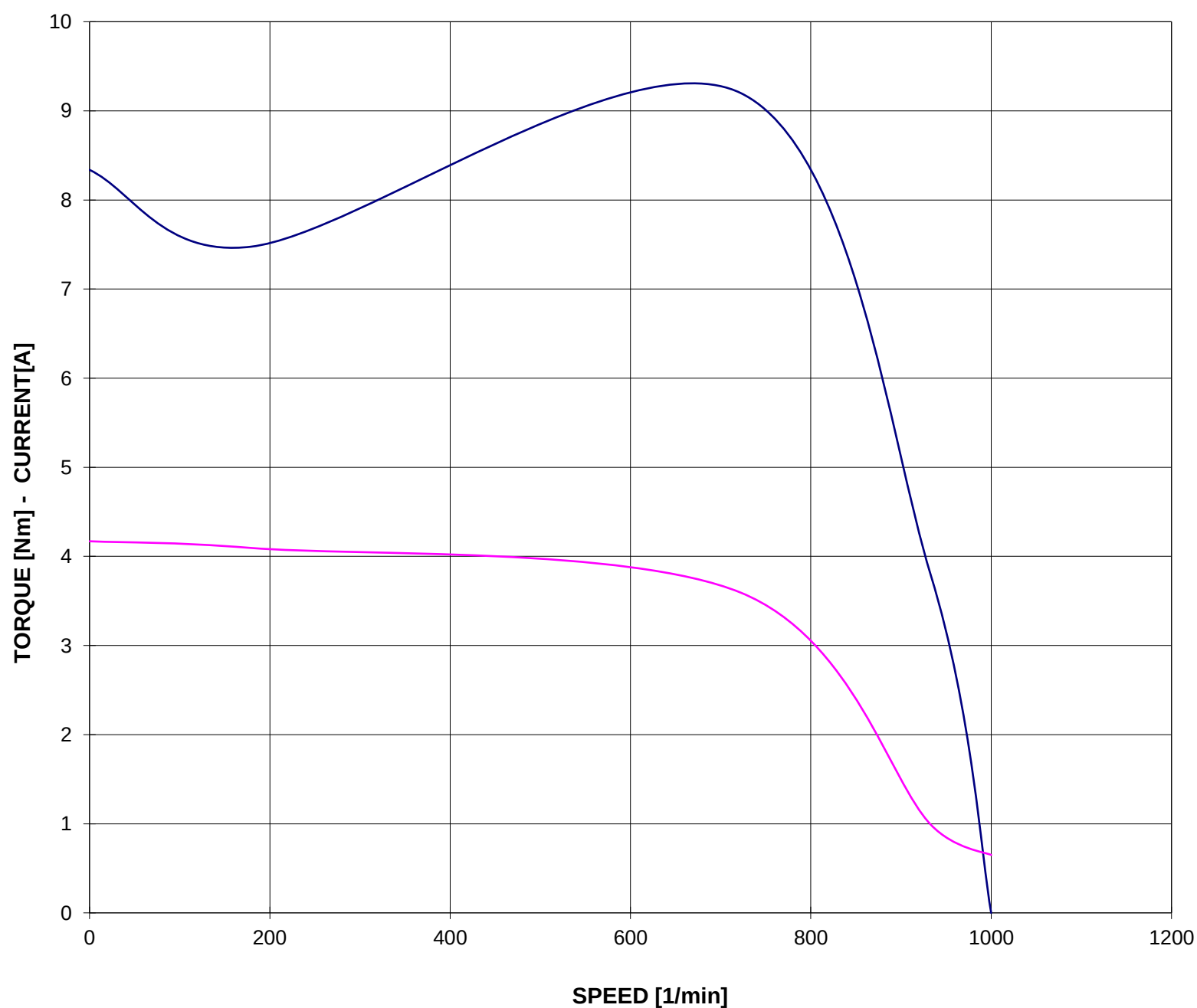
Numero d'offerta / Offer Number -

Motore / Motor

AC30r 80A 6

Potenza nominale / Rated power	0,37	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	0,99	A
Velocità / Speed	933	rpm
Coppia / Torque	3,79	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 80A 6

Potenza nominale / Rated power 0,37 kW

Poli / Pole 6

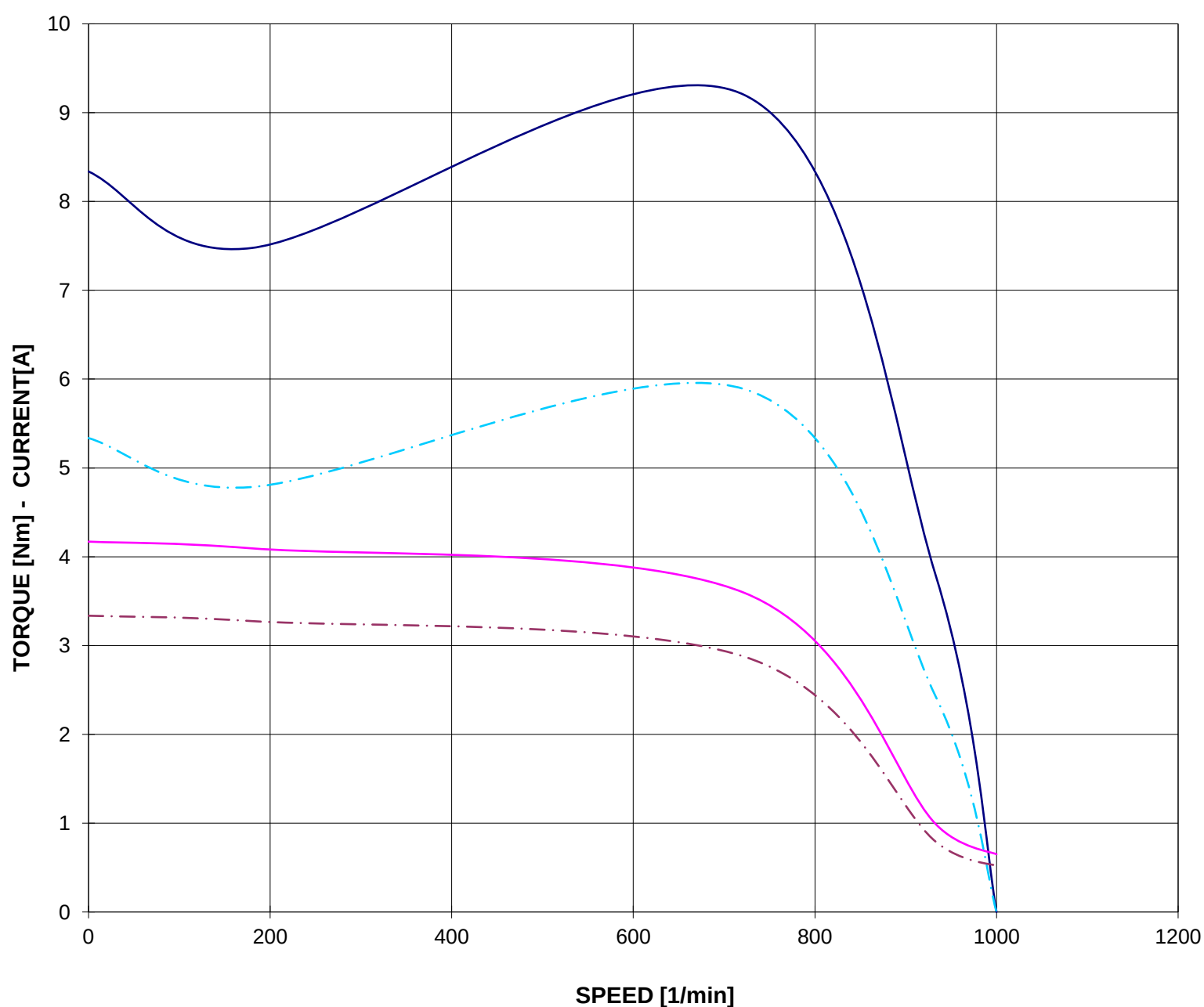
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz

Corrente / Rated current 0,99 A

Velocità / Speed 933 rpm

Coppia / Torque 3,79 Nm

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



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 80A 6

Potenza nominale / Rated power

0,37

kW

Poli / Pole

6

Tensione - Frequenza / Voltage - Frequency

400 - 50

V - Hz

Corrente / Rated current

0,99

A

Velocità / Speed

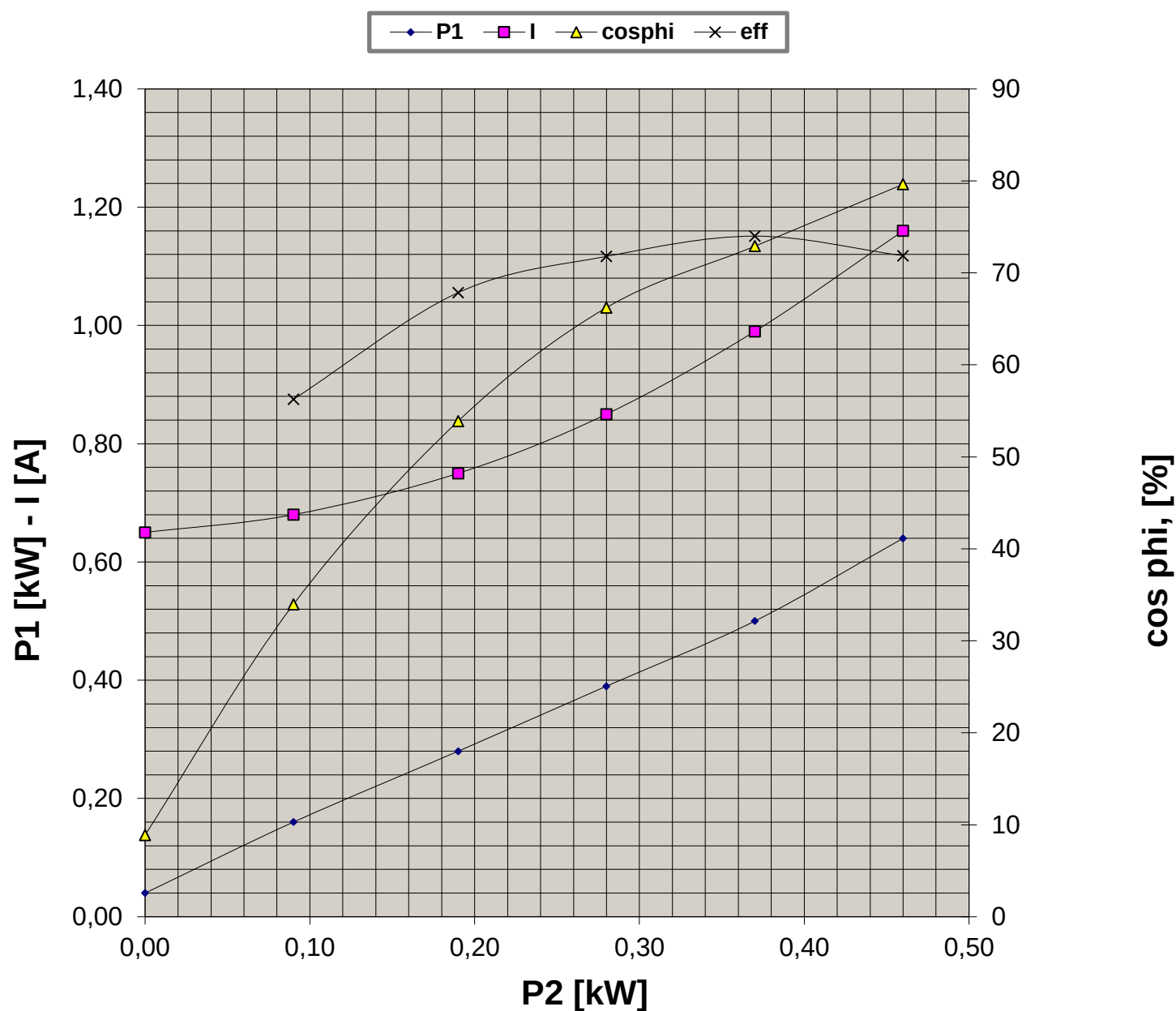
933

rpm

Coppia / Torque

3,79

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 -

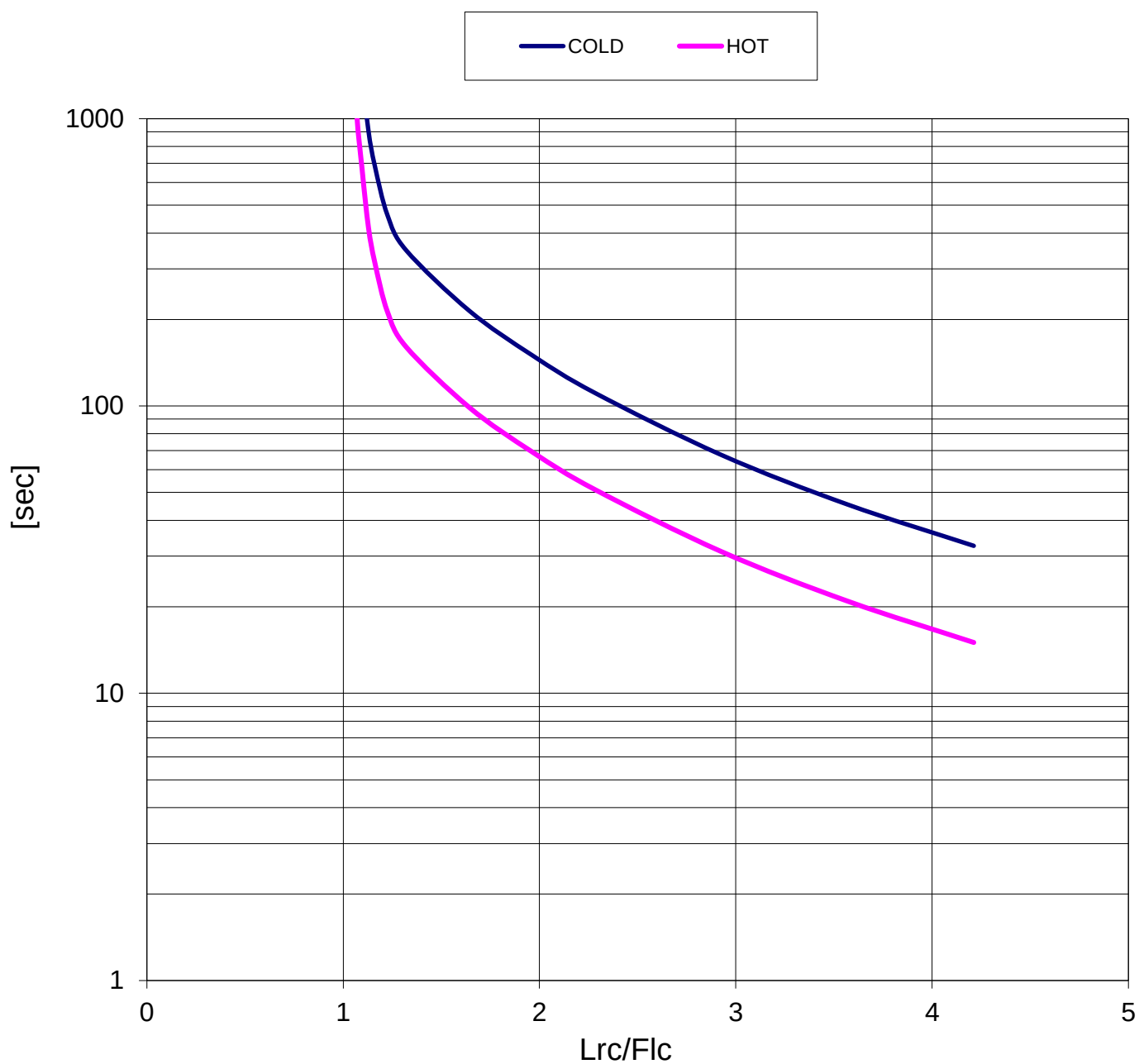
ITEM -

Numero d'offerta / Offer Number -

Motore / Motor

AC30r 80A 6

Potenza nominale / Rated power	0,37	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	0,99	A
Velocità / Speed	933	rpm
Coppia / Torque	3,79	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)

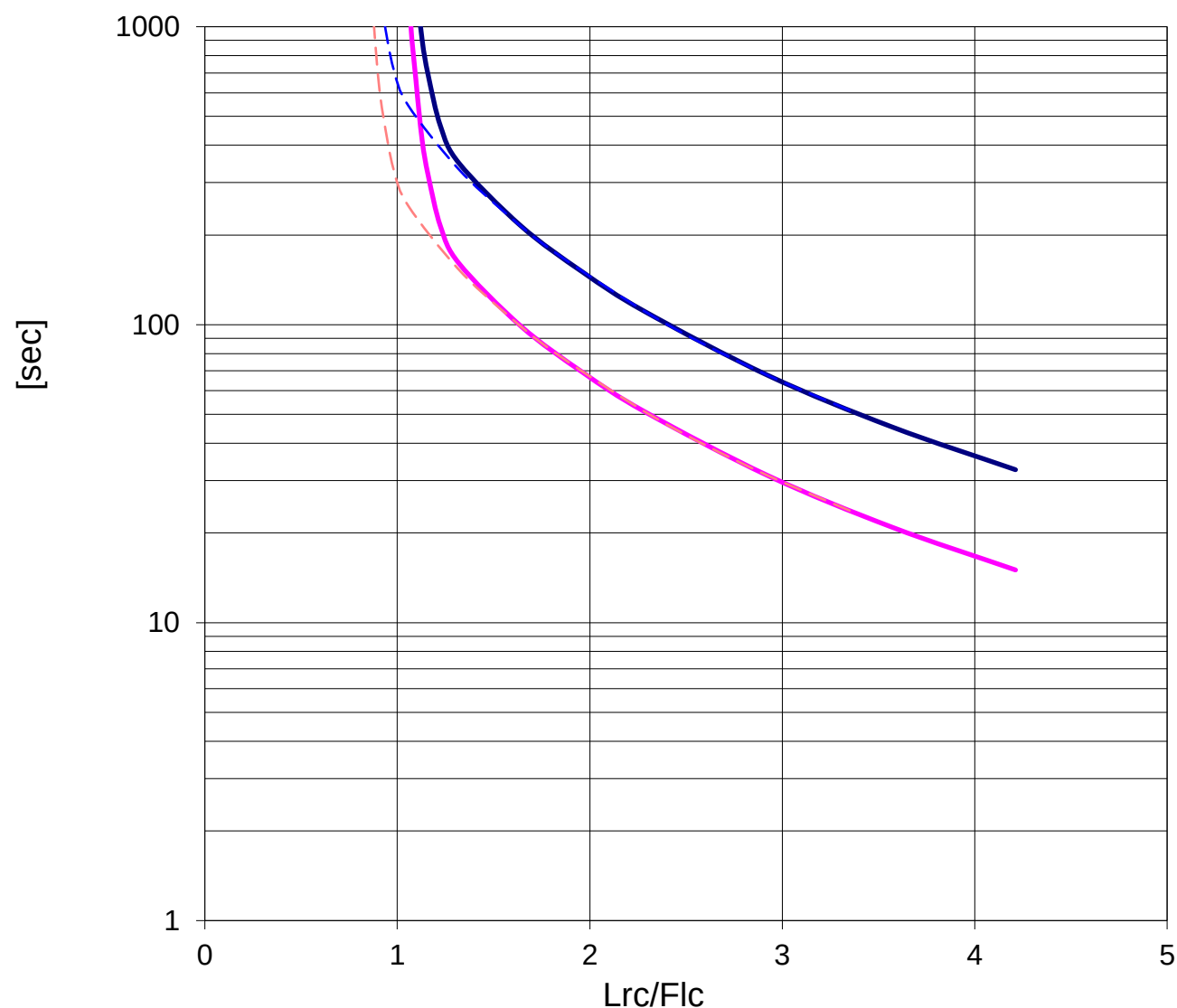
Ciente / Customer -
Impianto / Plant -
ITEM -
Numero d'offerta / Offer Number -

Motore / Motor

AC30r 80A 6

Potenza nominale / Rated power	0,37	kW
Poli / Pole	6	
Tensione - Frequenza / Voltage - Frequency	400 - 50	V - Hz
Corrente / Rated current	0,99	A
Velocità / Speed	933	rpm
Coppia / Torque	3,79	Nm

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



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

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