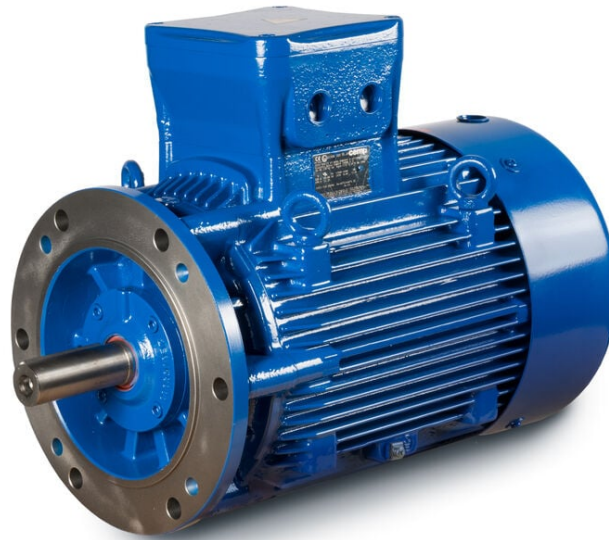


# PRODUCT INFORMATION PACKET

Model No: E3AB3006315B50D41100

Catalog No: E3AB3006315B50D41100

Made in Italy E3AB30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 110,00kW,  
3 phase, 990 RPM, D400/Y690V 50Hz, 315ML Frame B5, 6 Poles, IC411



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## Nameplate Specifications

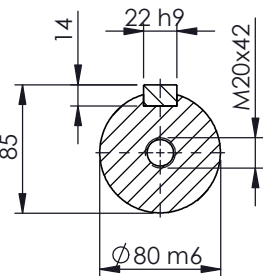
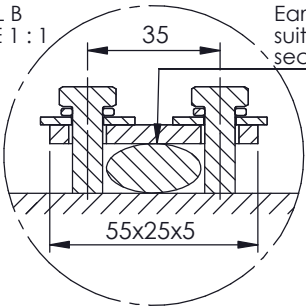
|                            |         |                        |                             |
|----------------------------|---------|------------------------|-----------------------------|
| Output HP                  | 150 Hp  | Output KW              | 110.0 kW                    |
| Frequency                  | 50 Hz   | Voltage                | 400/690 V                   |
| Current                    | 203.0 A | Speed                  | 990 rpm                     |
| Service Factor             | 1       | Phase                  | 3                           |
| Efficiency                 | 95.3 %  | Power Factor           | 0.82                        |
| Duty                       | S1      | Insulation Class       | F                           |
| Frame                      | 315ML   | Enclosure              | Totally Enclosed Fan Cooled |
| Ambient Temperature        | 40 °C   | Drive End Bearing Size | 6317                        |
| Opp Drive End Bearing Size | 6316    | UL                     | No                          |
| CSA                        | No      | CE                     | Yes                         |
| IP Code                    | IP55    | Number of Speeds       | 1                           |

## Technical Specifications

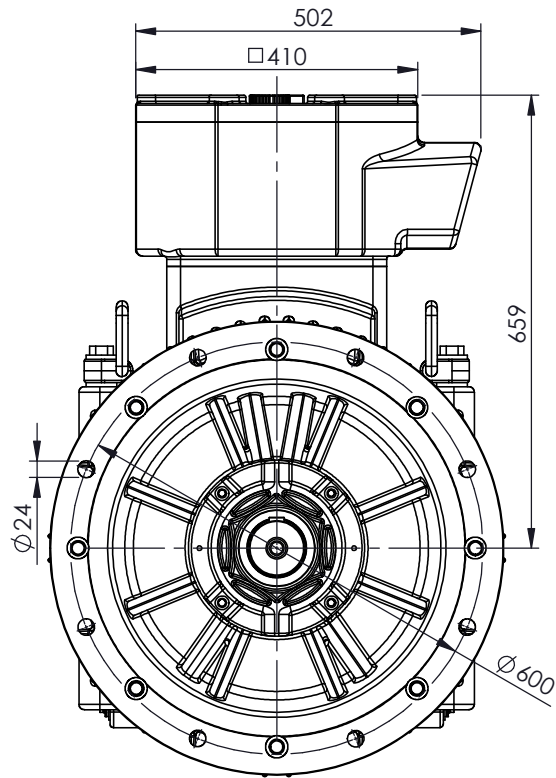
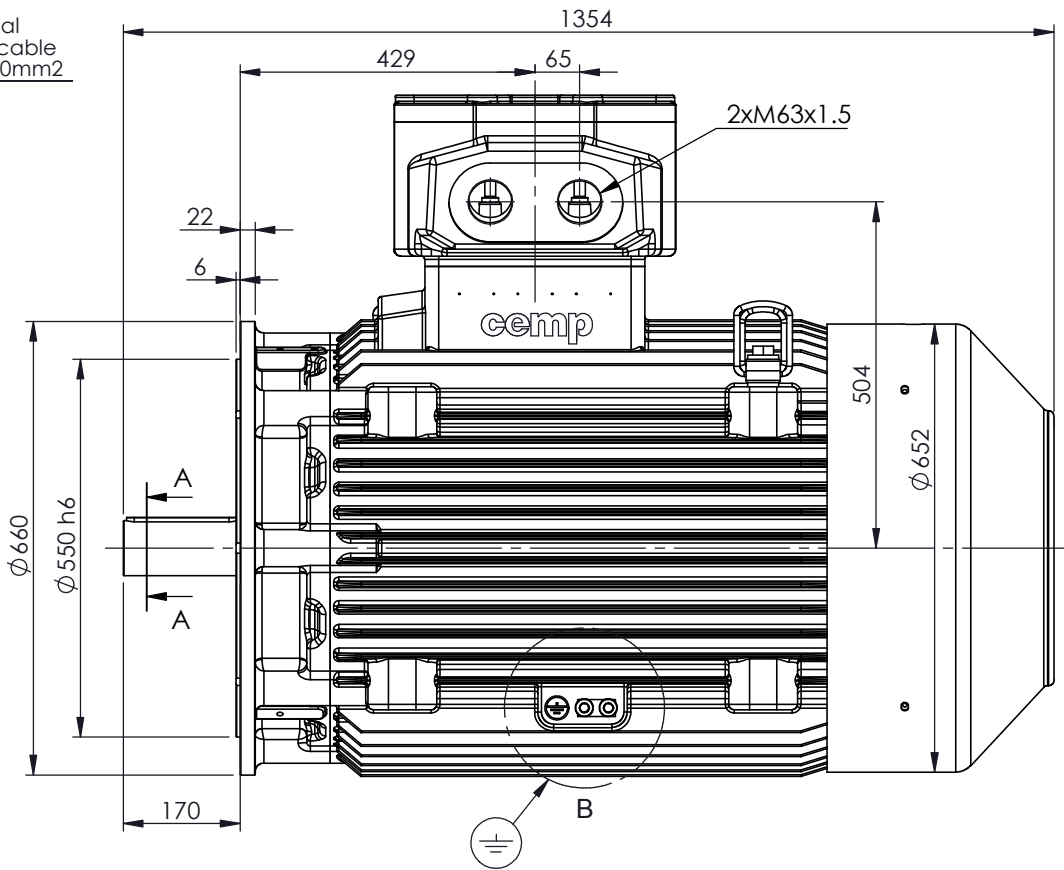
|                       |               |                       |                  |
|-----------------------|---------------|-----------------------|------------------|
| Electrical Type       | Squirrel Cage | Starting Method       | Direct On Line   |
| Poles                 | 6             | Rotation              | Bi-Directional   |
| Mounting              | B5            | Motor Orientation     | Horizontal       |
| Drive End Bearing     | Zz C3         | Opp Drive End Bearing | Zz C3            |
| Frame Material        | Cast Iron     | Shaft Type            | Keyed            |
| Overall Length        | 1535.00 mm    | Frame Length          | 800.00 mm        |
| Shaft Diameter        | 80.000 mm     | Shaft Extension       | 170 mm           |
| Assembly/Box Mounting | Top           |                       |                  |
| Connection Drawing    | SC-01-T-1v-1a | Outline Drawing       | B5A04E8315011B01 |

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DETAIL B  
SCALE 1 : 1



SECTION A-A  
SCALE 1 : 5



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)<br>TOLERANCES:       ±2<br>* TOLERANCES:     ±0.8<br><br>DIMENSIONS ARE IN mm<br>ACCORDING TO IEC 60072 | DRAWN BY<br>LP     | <div><div>REGAL™</div><div>cemp</div></div>                                                              |  |  |
| ECO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | APPROVED BY | DATE |                                                                                                                                      | DATE<br>27/12/2016 |                                                                                                          |  |  |
| ECO DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |      |                                                                                                                                      | APPROVED BY<br>DP  | DESCRIPTION<br><br><b>Motor A315 S/MA/MB/ML (S) B5 IE3</b>                                               |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |      | SERIAL NUMBER                                                                                                                        | REFERENCE          | <div>SIZE<br/>A4</div> <div>DRAWING NUMBER<br/><b>B5A04E8315011B01</b></div> <div>SHEET<br/>1 OF 2</div> |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |      | FIRST ANGLE PROJECTION                                                                                                               |                    |                                                                                                          |  |  |

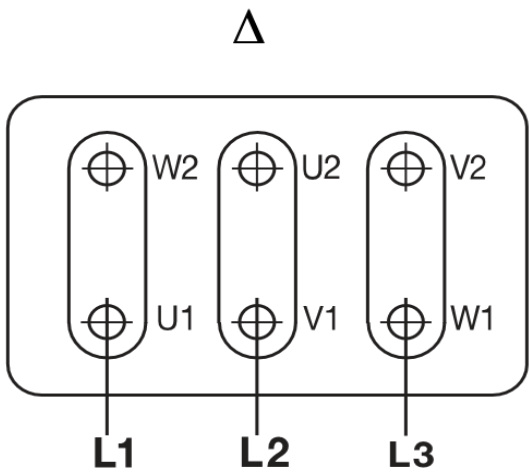
Schema di collegamento - *Connection diagram*  
Schemas de branchement - *Schaltplan*  
Esquemas de conexión



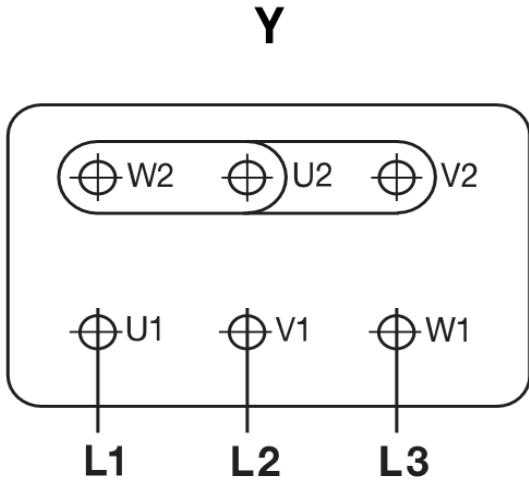
DTE 01/01/2004  
SC - 01 - T - 1v.doc

**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<br><i>Marking</i>                                                     | No. morsetti<br><i>terminals</i> | Morsetto ausiliare per:<br><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 -<br><i>Normally closed bi-metallic switch (**)</i>    |
| TB3 - TB4 (intervento- <i>switch off</i> )                                      | 2                                | Protettore bimetallico del freno normalmente chiuso -<br><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 -<br><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 -<br><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              | - |
| Ordine cliente / Customer order | - |
| Item                            | - |

|                                  |      |
|----------------------------------|------|
| Conferma ordine / Acknowledgment | N° - |
| 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 IIB T4 Gb                 | IP55               |
| Ex-db IIB 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

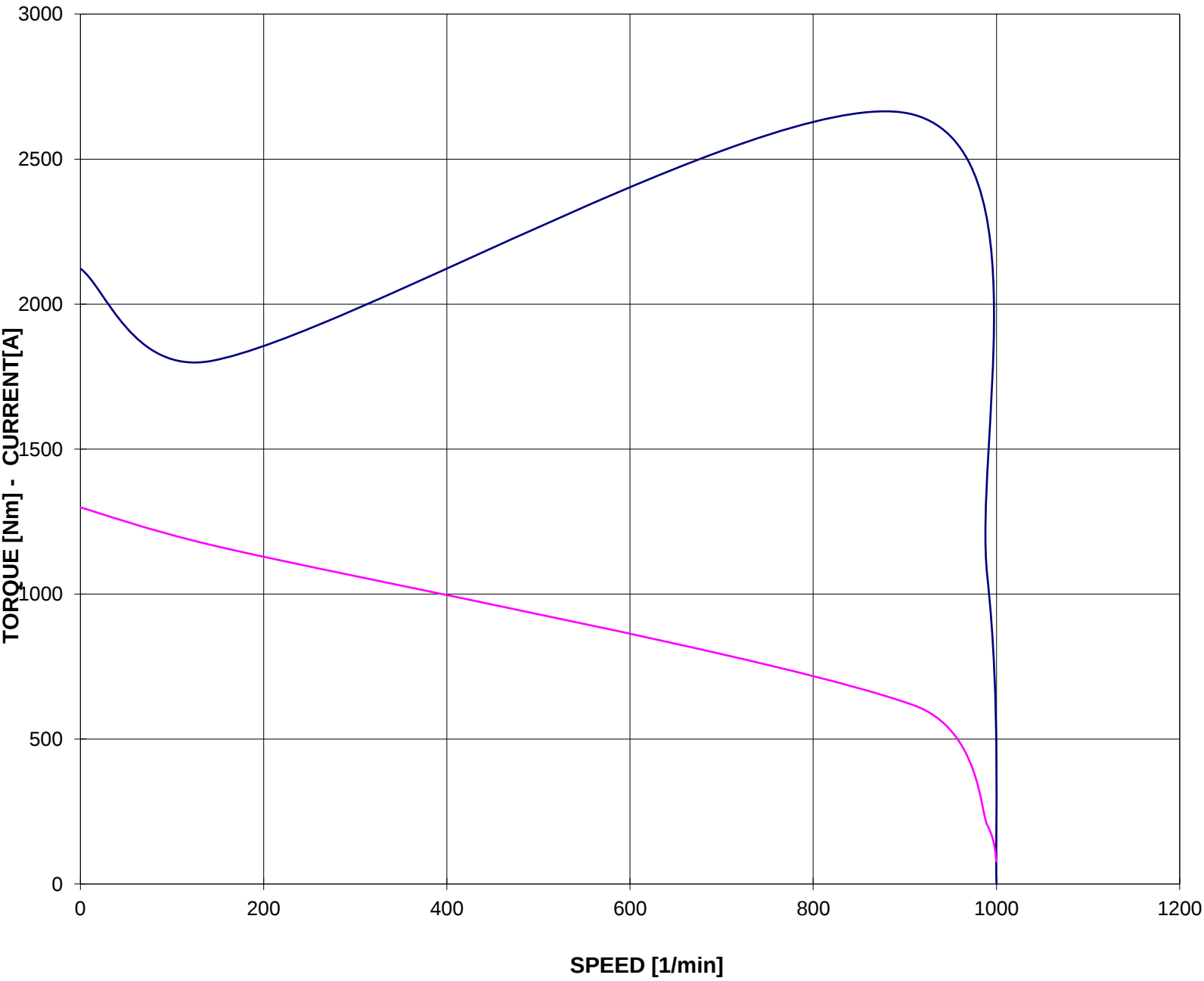
|                                                     |                                            |           |                   |
|-----------------------------------------------------|--------------------------------------------|-----------|-------------------|
| 1                                                   | Quantità / Quantity                        |           | 01                |
| 2                                                   | Motore tipo / Motor type                   |           | E3AB30 315ML 6    |
| 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°        | 6                 |
| 8                                                   | Potenza nominale / Rated power             | kW        | 110,00            |
| 9                                                   | Corrente nominale / Rated current          | A         | 202,93            |
| 10                                                  | Velocità nominale / Full Load speed        | 1/min     | 990               |
| 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               |
| 18                                                  | Giri / Speed                               | 1/min     | 990               |
| 19                                                  | Corr. / Curr.                              | A         | 202,93            |
| 20                                                  | Rend / Eff                                 | %         | 95,3              |
| 21                                                  | cos φ                                      | -         | 0,82              |
| Performances all'avviamento / Starting performances |                                            |           |                   |
| 22                                                  | Ia/In - LRC/FLC                            | %         | 645               |
| 23                                                  | Cosphi a rotore bloccato / LR power factor |           | 0,34              |
|                                                     | Tempo a rotore bloccato / LRWT             |           |                   |
| 24                                                  | 100% Un (A caldo / Warm)                   | sec       | 17                |
| 25                                                  | (A freddo / Cold)                          | sec       | 59                |
| 26                                                  | 80% Un (A caldo / Warm)                    | sec       | 27                |
| 27                                                  | (A freddo / Cold)                          | sec       | 92                |
|                                                     | Tempo di avviamento ammissibile / ART      |           |                   |
| 28                                                  | 100% Un                                    | sec       | 51                |
| 29                                                  | 80% Un                                     | sec       | 80                |
| Curva di coppia / Speed-torque values               |                                            |           |                   |
| 30                                                  | Coppia nominale / Rated Torque             | Nm        | 1061,11           |
| 31                                                  | Ca/Cn - LRT/FLT                            | %         | 200               |
| 32                                                  | Cmax/Cn - BDT/FLT                          | %         | 250               |
| 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                | -                       | 6317 ZZ C3 |
| 45                                                          | Cuscinetto post / NDE bearing              | -                       | 6316 ZZ C3 |
| 46                                                          | Carico radiale max / Max radial load in X1 | N                       | 7300       |
| 47                                                          | Carico assiale max / Max axial load        | N                       | 1750       |
| 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                      | 1525,3     |
| 52                                                          | Momento d'inerzia / Moment of inertia      | kgm2                    | 4,5367     |
| 53                                                          | Rumore a vuoto / Noise at no load (1 m)    | Lp dB(A)                | 70         |
| 54                                                          | Vibrazioni / Vibration level               | IEC 34-14               | A          |
| 55                                                          | Limite norma / Vibration limit             | mm/sec                  | 2,80       |
| 56                                                          |                                            |                         |            |
| 57                                                          |                                            |                         |            |
| 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                                                          |                                            |                         |            |

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            | -                     |
| <b>Motore / Motor</b>                      | <b>E3AB30 315ML 6</b> |
| Potenza nominale / Rated power             | 110,00 kW             |
| Poli / Pole                                | 6                     |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50 V - Hz       |
| Corrente / Rated current                   | 202,93 A              |
| Velocità / Speed                           | 990 rpm               |
| Coppia / Torque                            | 1061,11 Nm            |

COPPIA - TORQUECORRENTE - CURRENT



Valori calcolati - Data obtained by calculation method

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

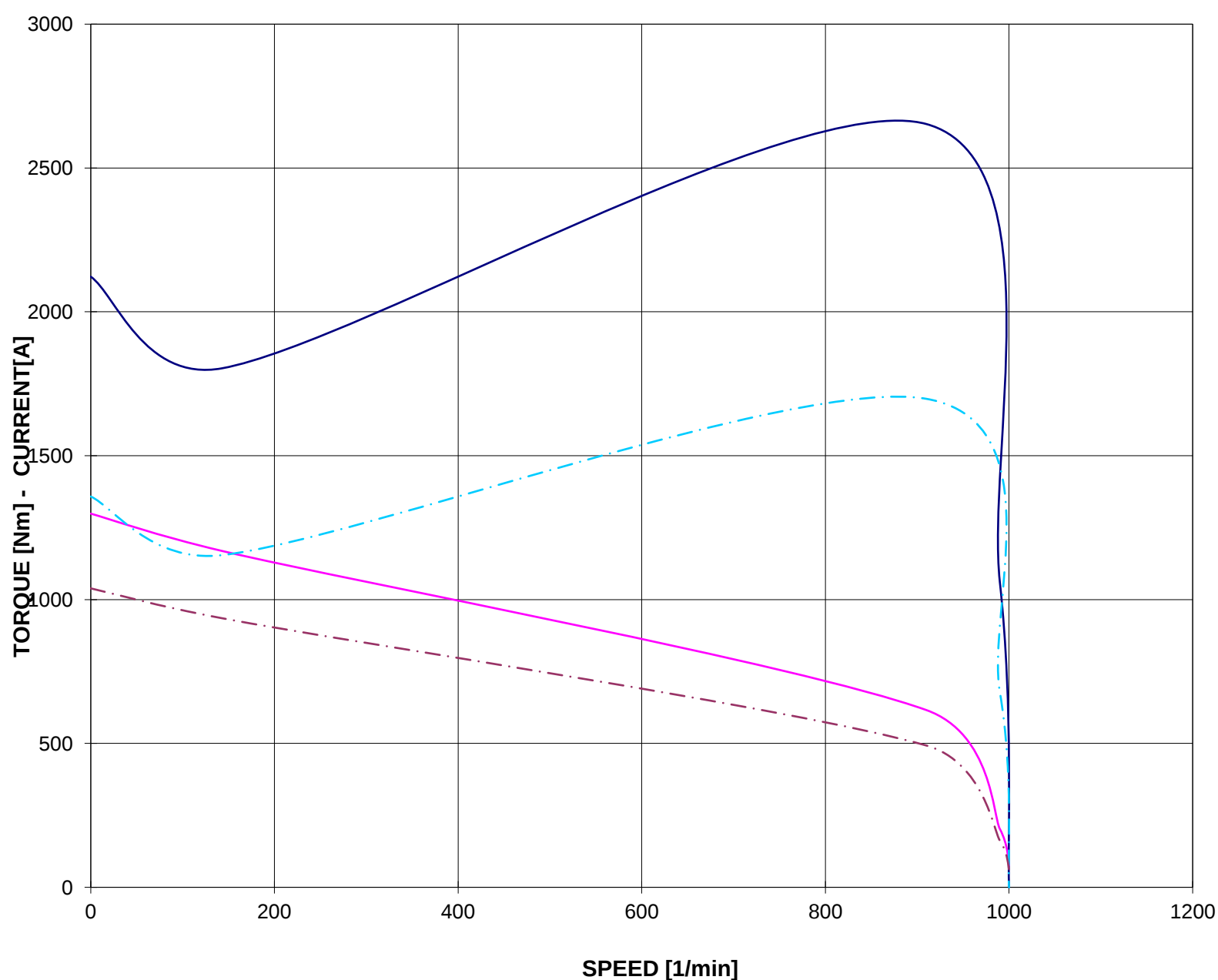
Cliente / Customer -  
Ordine cliente / Customer order -  
Impianto / Plant -  
**ITEM** -

Conferma ordine / Acknowledgment -  
Numero di serie / Serial Number -

**Motore / Motor E3AB30 315ML 6**

|                                            |          |        |
|--------------------------------------------|----------|--------|
| Potenza nominale / Rated power             | 110,00   | kW     |
| Poli / Pole                                | 6        |        |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50 | V - Hz |
| Corrente / Rated current                   | 202,93   | A      |
| Velocità / Speed                           | 990      | rpm    |
| Coppia / Torque                            | 1061,11  | Nm     |

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

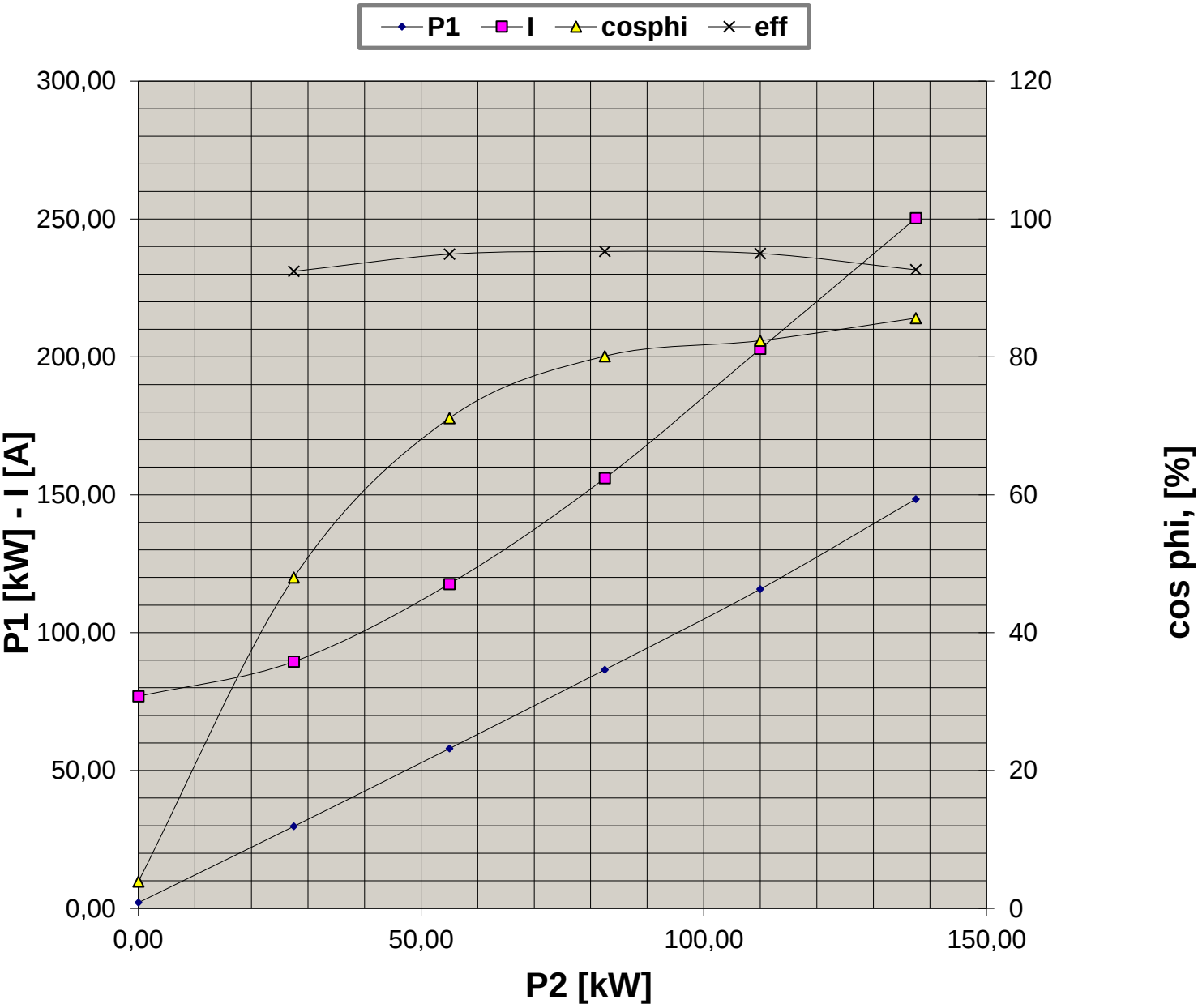


Valori calcolati - Data obtained by calculation method

CURVE CARATTERISTICHE  
PERFORMANCE CURVES

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

|                                            |                       |        |
|--------------------------------------------|-----------------------|--------|
| <b>Motore / Motor</b>                      | <b>E3AB30 315ML 6</b> |        |
| Potenza nominale / Rated power             | 110,00                | kW     |
| Poli / Pole                                | 6                     |        |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50              | V - Hz |
| Corrente / Rated current                   | 202,93                | A      |
| Velocità / Speed                           | 990                   | rpm    |
| Coppia / Torque                            | 1061,11               | Nm     |

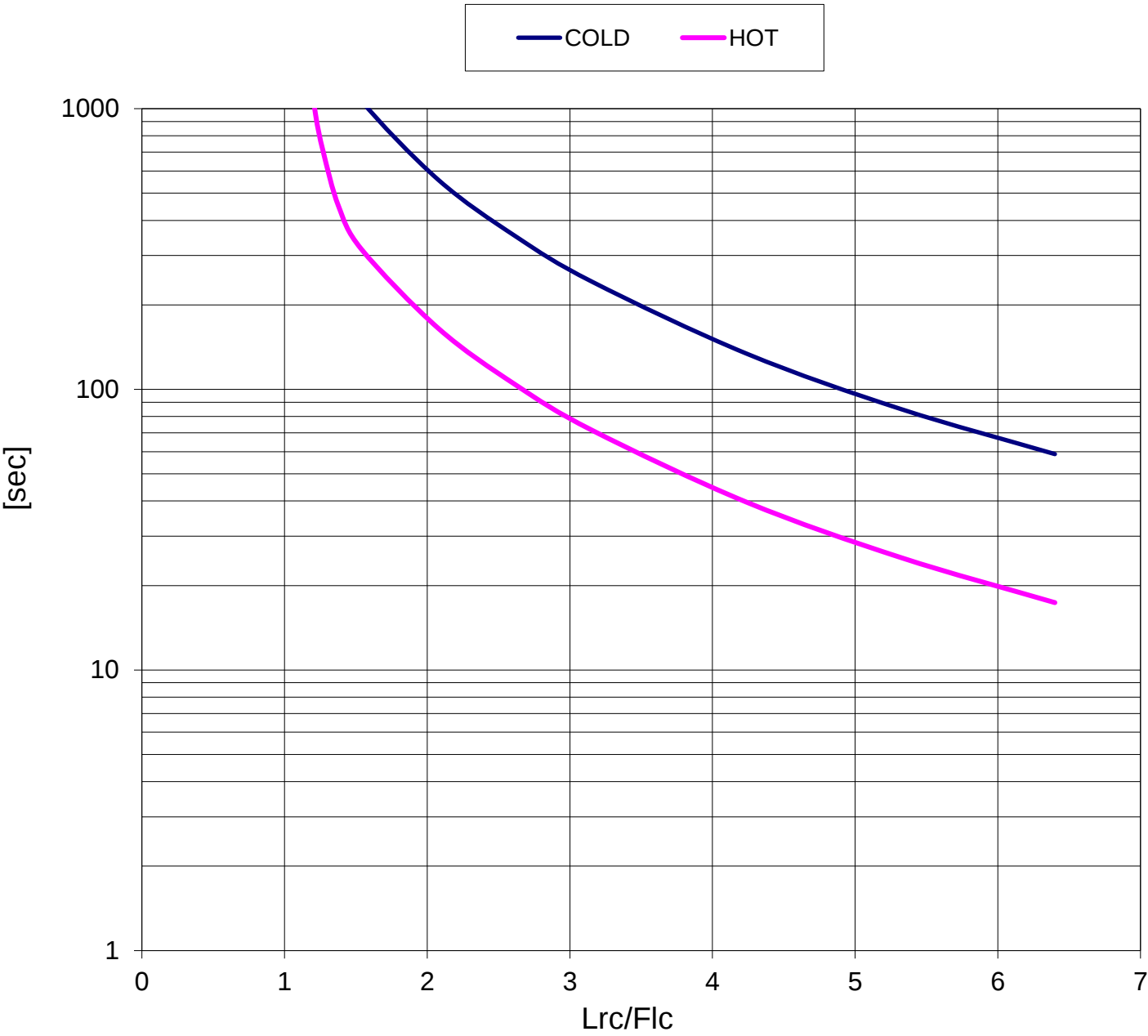


Valori calcolati - Data obtained by calculation method

Data / Date 25 January 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            | -                     |
| <b>Motore / Motor</b>                      | <b>E3AB30 315ML 6</b> |
| Potenza nominale / Rated power             | 110,00 kW             |
| Poli / Pole                                | 6                     |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50 V - Hz       |
| Corrente / Rated current                   | 202,93 A              |
| Velocità / Speed                           | 990 rpm               |
| Coppia / Torque                            | 1061,11 Nm            |



Valori calcolati - Data obtained by calculation method

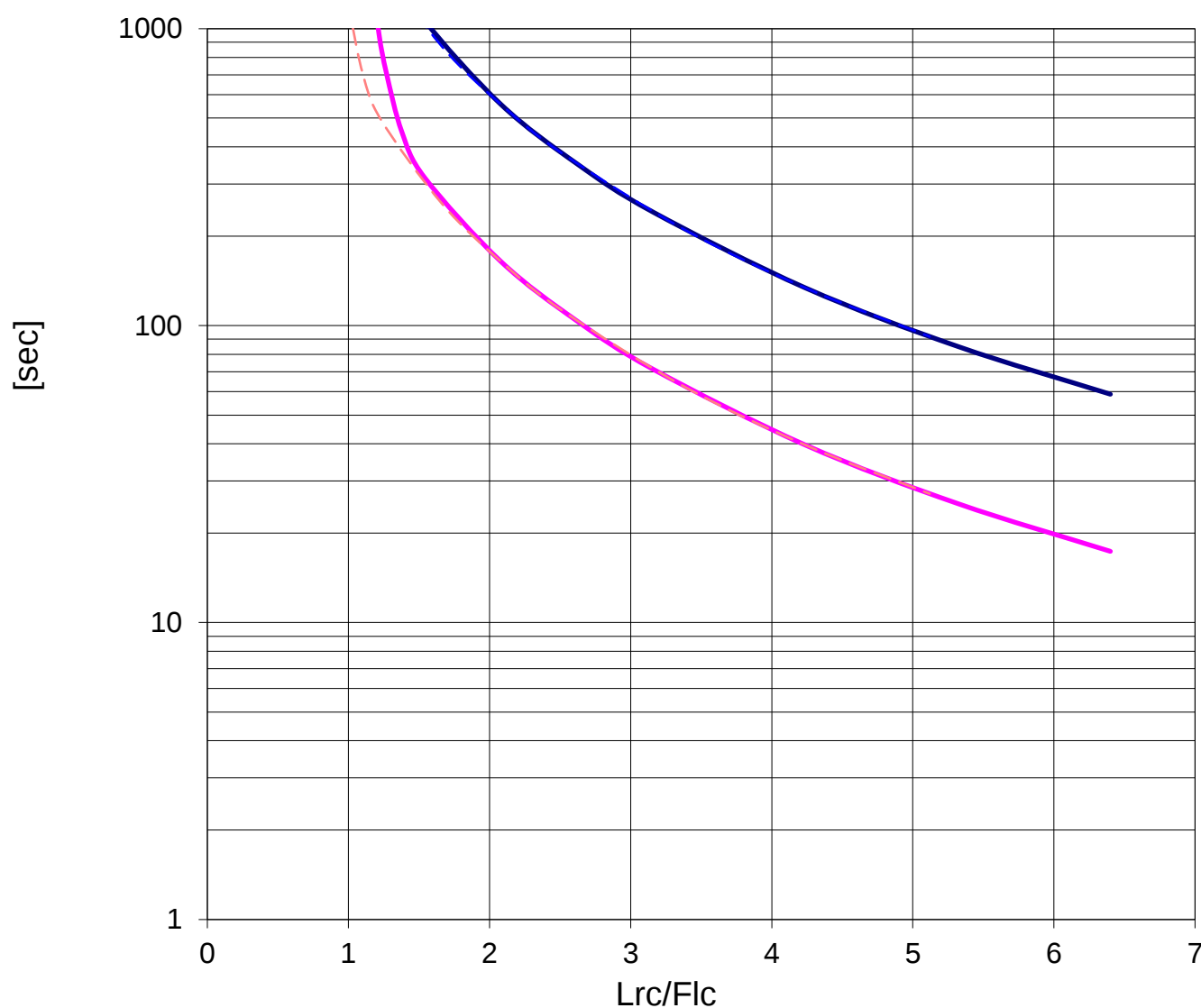
**CURVA LIMITE CORRENTE TEMPO (Tensione ridotta)**  
**THERMAL WITHSTAND CURVE (Reduced voltage)**

Cliente / Customer -  
Ordine cliente / Customer order -  
Impianto / Plant -  
**ITEM** -

Conferma ordine / Acknowledgment -  
Numero di serie / Serial Number -

|                                            |                       |        |
|--------------------------------------------|-----------------------|--------|
| <b>Motore / Motor</b>                      | <b>E3AB30 315ML 6</b> |        |
| Potenza nominale / Rated power             | 110,00                | kW     |
| Poli / Pole                                | 6                     |        |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50              | V - Hz |
| Corrente / Rated current                   | 202,93                | A      |
| Velocità / Speed                           | 990                   | rpm    |
| Coppia / Torque                            | 1061,11               | Nm     |

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



Valori calcolati - Data obtained by calculation method