

# PRODUCT INFORMATION PACKET

Model No: E3AC3004357B35D41100

Catalog No: E3AC3004357B35D41100

Made in Italy E3AC30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 355,00kW,  
3 phase, 1491 RPM, D400/Y690V 50Hz, 355LC Frame B35, 4 Poles, IC411



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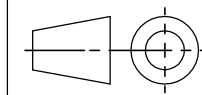
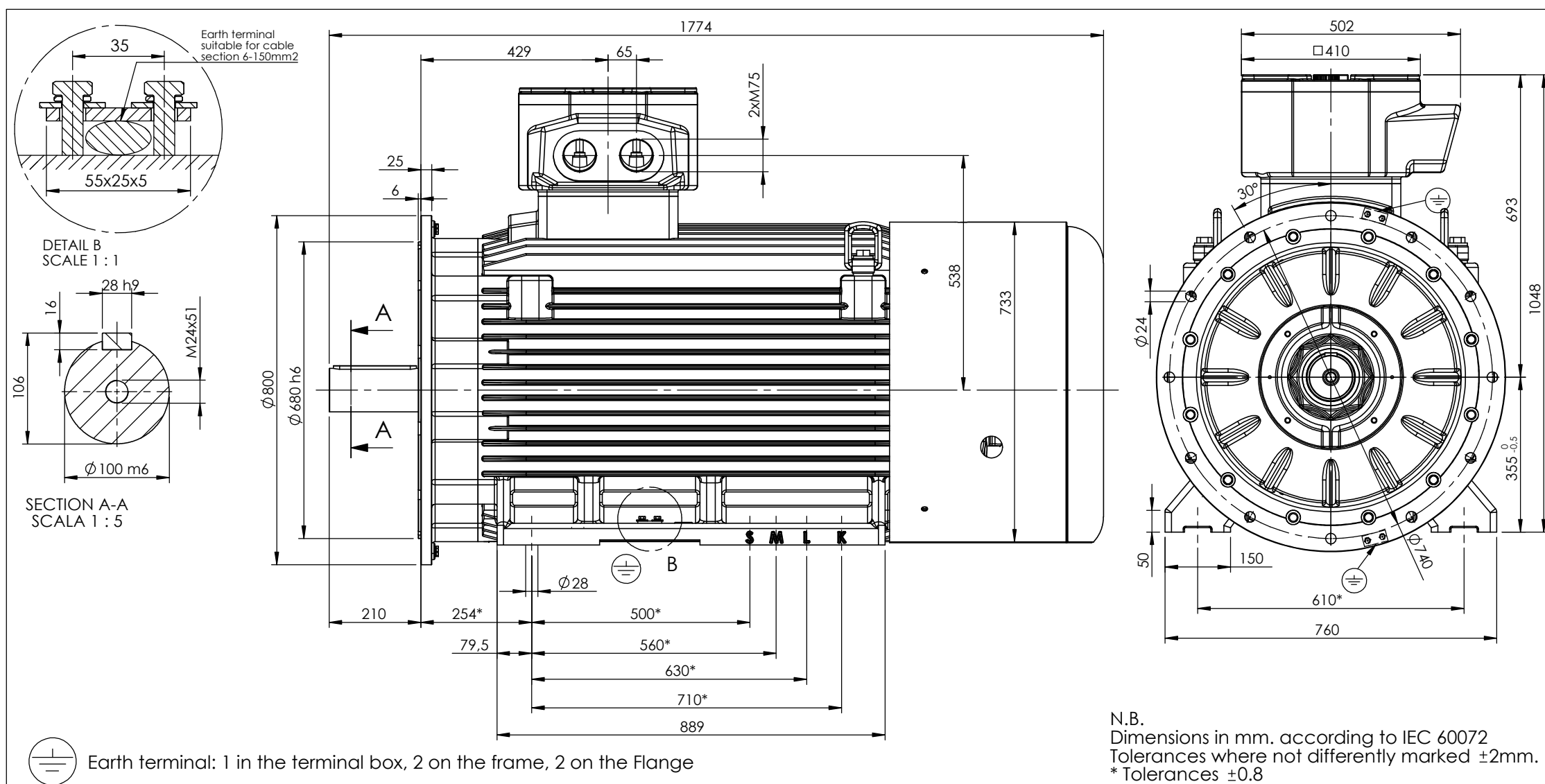
## Nameplate Specifications

|                        |          |                            |                             |
|------------------------|----------|----------------------------|-----------------------------|
| Phase                  | 3        | Output HP                  | 475.0 Hp                    |
| Output KW              | 355.0 kW | Voltage                    | 400/690 V                   |
| Speed                  | 1491 rpm | Service Factor             | 1                           |
| Frame                  | 355LC    | Enclosure                  | Totally Enclosed Fan Cooled |
| Efficiency             | 96 %     | Ambient Temperature        | 40 °C                       |
| Frequency              | 50 Hz    | Power Factor               | 0.89                        |
| Duty                   | S1       | Insulation Class           | F                           |
| Drive End Bearing Size | 6322     | 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                 | 4             | Rotation              | Bi-Directional  |
| Mounting              | B35           | Motor Orientation     | Horizontal      |
| Drive End Bearing     | C3            | Opp Drive End Bearing | C3              |
| Frame Material        | Cast Iron     | Shaft Type            | Keyed           |
| Overall Length        | 1994.00 mm    | Frame Length          | 1085.00 mm      |
| Shaft Diameter        | 100.000 mm    | Shaft Extension       | 210 mm          |
| Assembly/Box Mounting | Top           |                       |                 |
| Connection Drawing    | SC-01-T-1v-1a | Outline Drawing       | B3A048350021D01 |

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Dimensions in mm  
Tolerances allowed

**cemp**  
 Flameproof  
 Motors

**Frame size: A 355LK 4-8 Poles**

Document N.**B3A048350021D01** - Date 05/05/2015

Issued by L.P. - Approved by D.P.

Cemp - Senago (Italy)

**Rev.**

0

**Motor type and description**

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

| <b>Marcatura Morsetti Ausiliari - <i>Additional terminals marking</i> (IEC60034-8)</b> |                                          |                                                                                                  |
|----------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Marcatura<br/><i>Marking</i></b>                                                    | <b>No. morsetti<br/><i>terminals</i></b> | <b>Morsetto ausiliare per:<br/><i>Additional terminal for:</i></b>                               |
| 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                                        |                                                                                                  |
| TB8 - TB9 (intervento- <i>switch off</i> )                                             | 2                                        | Protettore bimetallico del freno normalmente chiuso -<br><i>NC brake bi-metallic switch</i> (**) |
| 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 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                   |           | AC30 355LC 4  |
| 3                                                   | Numero di serie / Serial Number            |           | -             |
| 4                                                   | Forma costruttiva / Shape                  |           | B35           |
| 5                                                   | Certificato / Certificate                  | TÜV IT    | 15 ATEX 023 X |
| 6                                                   | Altro certificato / Other certificate      |           |               |
| Dati nominali / Rated data                          |                                            |           |               |
| 7                                                   | Poli / Pole                                | n°        | 4             |
| 8                                                   | Potenza nominale / Rated power             | kW        | 355,00        |
| 9                                                   | Corrente nominale / Rated current          | A         | 602,66        |
| 10                                                  | Velocità nominale / Full Load speed        | 1/min     | 1491          |
| 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     | 1491          |
| 19                                                  | Corr. / Curr.                              | A         | 602,66        |
| 20                                                  | Rend / Eff                                 | %         | 96,0          |
| 21                                                  | cos φ                                      | -         | 0,89          |
| Performances all'avviamento / Starting performances |                                            |           |               |
| 22                                                  | Ia/In - LRC/FLC                            | %         | 735           |
| 23                                                  | Cosphi a rotore bloccato / LR power factor |           | 0,33          |
|                                                     | Tempo a rotore bloccato / LRWT             |           |               |
| 24                                                  | 100% Un (A caldo / Warm)                   | sec       | 3             |
| 25                                                  | (A freddo / Cold)                          | sec       | 21            |
| 26                                                  | 80% Un (A caldo / Warm)                    | sec       | 5             |
| 27                                                  | (A freddo / Cold)                          | sec       | 33            |
|                                                     | Tempo di avviamento ammissibile / ART      |           |               |
| 28                                                  | 100% Un                                    | sec       | 18            |
| 29                                                  | 80% Un                                     | sec       | 29            |
| Curva di coppia / Speed-torque values               |                                            |           |               |
| 30                                                  | Coppia nominale / Rated Torque             | Nm        | 2273,81       |
| 31                                                  | Ca/Cn - LRT/FLT                            | %         | 200           |
| 32                                                  | Cmax/Cn - BDT/FLT                          | %         | 230           |
| 33                                                  |                                            |           |               |
| 34                                                  |                                            |           |               |
| 35                                                  |                                            |           |               |
| Varie / Other                                       |                                            |           |               |
| 36                                                  |                                            |           |               |
| 37                                                  |                                            |           |               |
| 38                                                  |                                            |           |               |
| 39                                                  |                                            |           |               |

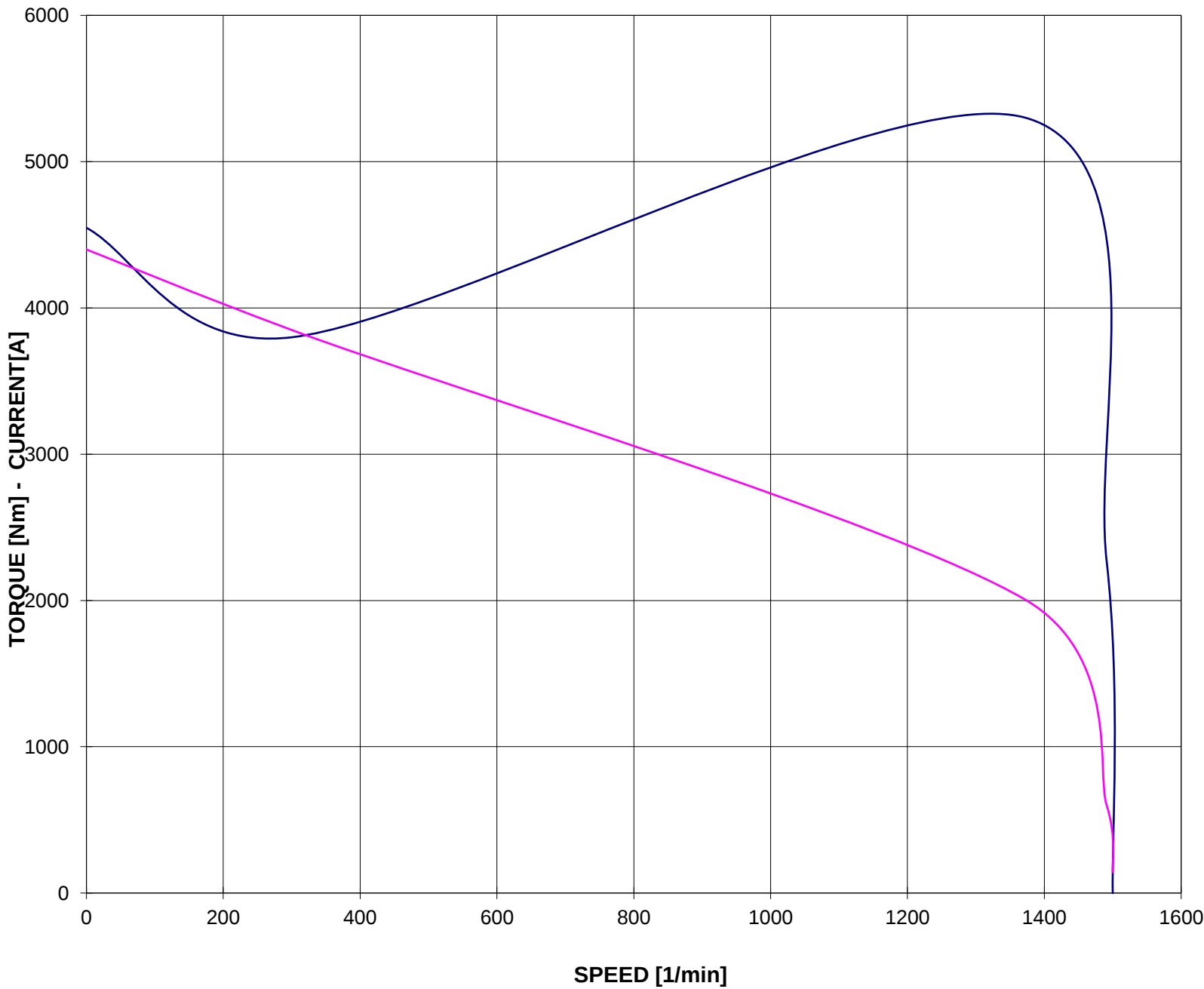
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|-------------------------------------------------------------|--------------------------------------------|-------------------------|---------|
| Servizio / Duty                                             |                                            |                         |         |
| 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                | -                       | 6322 C3 |
| 45                                                          | Cuscinetto post / NDE bearing              | -                       | 6316 C3 |
| 46                                                          | Carico radiale max / Max radial load in X1 | N                       | -       |
| 47                                                          | Carico assiale max / Max axial load        | N                       | -       |
| 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                      | 2490    |
| 52                                                          | Momento d'inerzia / Moment of inertia      | kgm2                    | 11,9000 |
| 53                                                          | Rumore a vuoto / Noise at no load (1 m)    | Lp dB(A)                | 82      |
| 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                 |                         | 2xM75   |
| 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 -  
Impianto / Plant -  
ITEM -  
Numero d'offerta / Offer Number -

|                                            |              |        |
|--------------------------------------------|--------------|--------|
| Motore / Motor                             | AC30 355LC 4 |        |
| Potenza nominale / Rated power             | 355,00       | kW     |
| Poli / Pole                                | 4            |        |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50     | V - Hz |
| Corrente / Rated current                   | 602,66       | A      |
| Velocità / Speed                           | 1491         | rpm    |
| Coppia / Torque                            | 2273,81      | Nm     |

COPPIA - TORQUE      CORRENTE - CURRENT

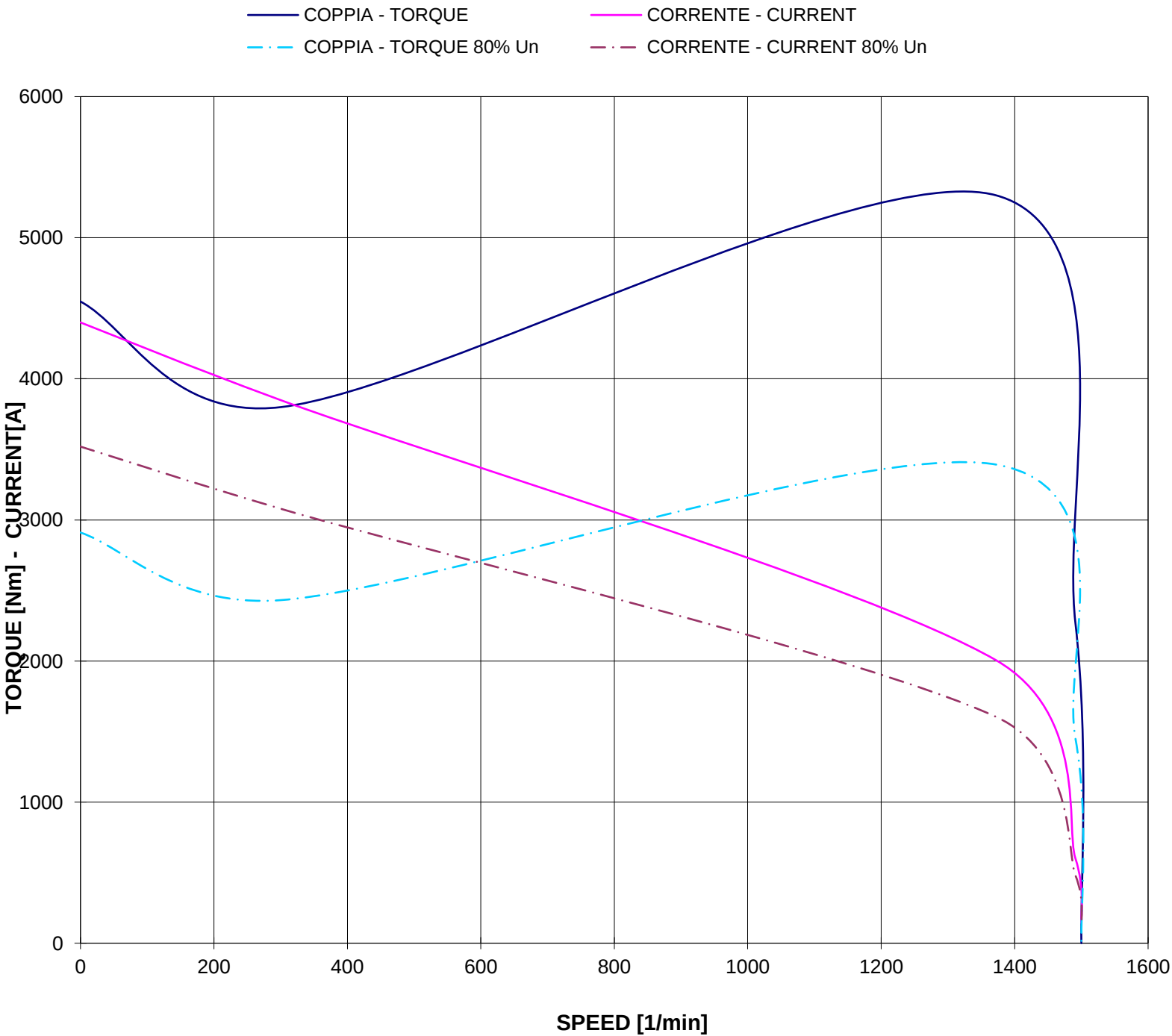


Valori calcolati - Data obtained by calculation method

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

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

|                                            |              |        |
|--------------------------------------------|--------------|--------|
| Motore / Motor                             | AC30 355LC 4 |        |
| Potenza nominale / Rated power             | 355,00       | kW     |
| Poli / Pole                                | 4            |        |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50     | V - Hz |
| Corrente / Rated current                   | 602,66       | A      |
| Velocità / Speed                           | 1491         | rpm    |
| Coppia / Torque                            | 2273,81      | Nm     |



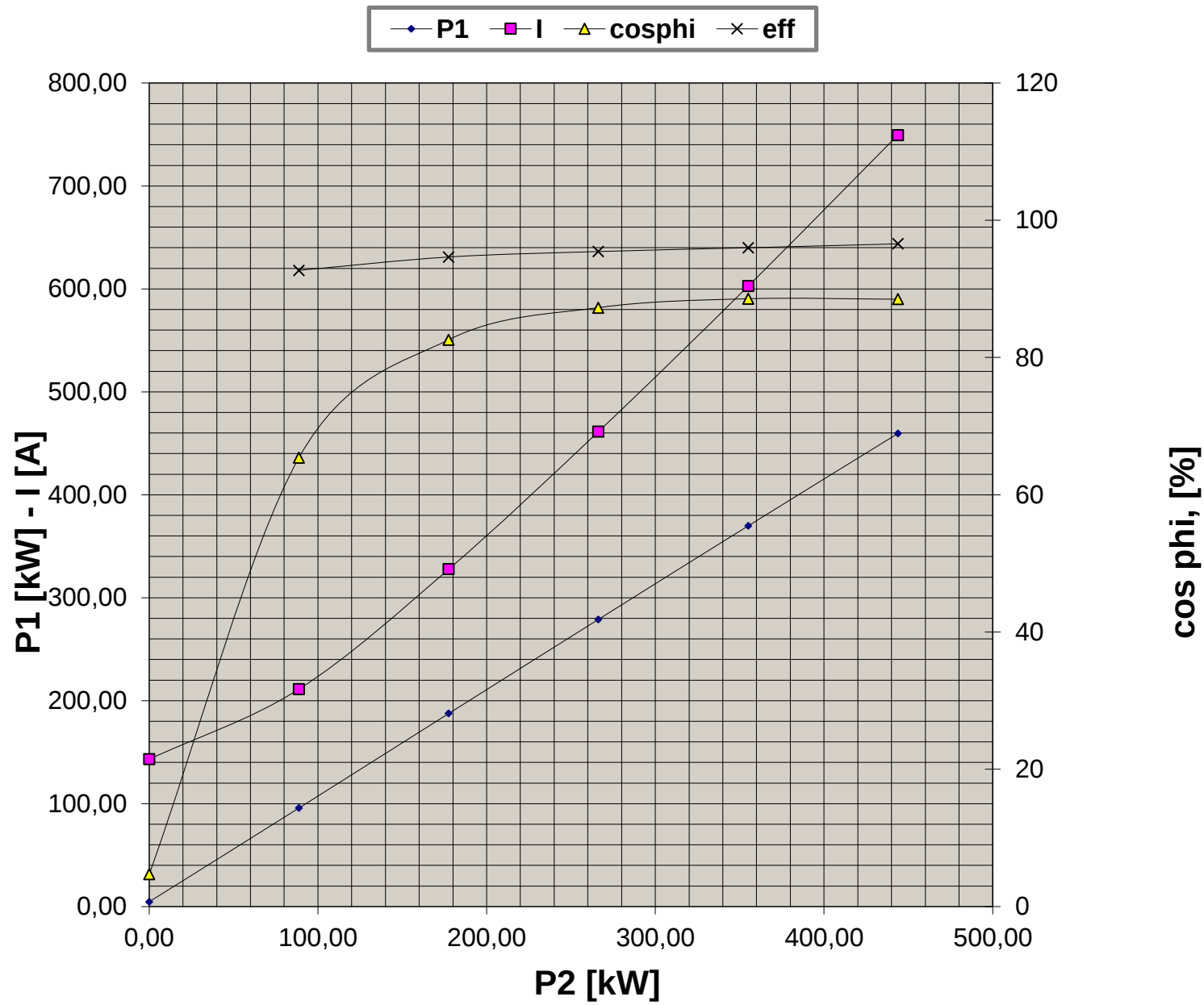
Valori calcolati - Data obtained by calculation method

Data / Date 28 January 2022

CURVE CARATTERISTICHE  
PERFORMANCE CURVES

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

|                                            |              |        |
|--------------------------------------------|--------------|--------|
| Motore / Motor                             | AC30 355LC 4 |        |
| Potenza nominale / Rated power             | 355,00       | kW     |
| Poli / Pole                                | 4            |        |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50     | V - Hz |
| Corrente / Rated current                   | 602,66       | A      |
| Velocità / Speed                           | 1491         | rpm    |
| Coppia / Torque                            | 2273,81      | Nm     |



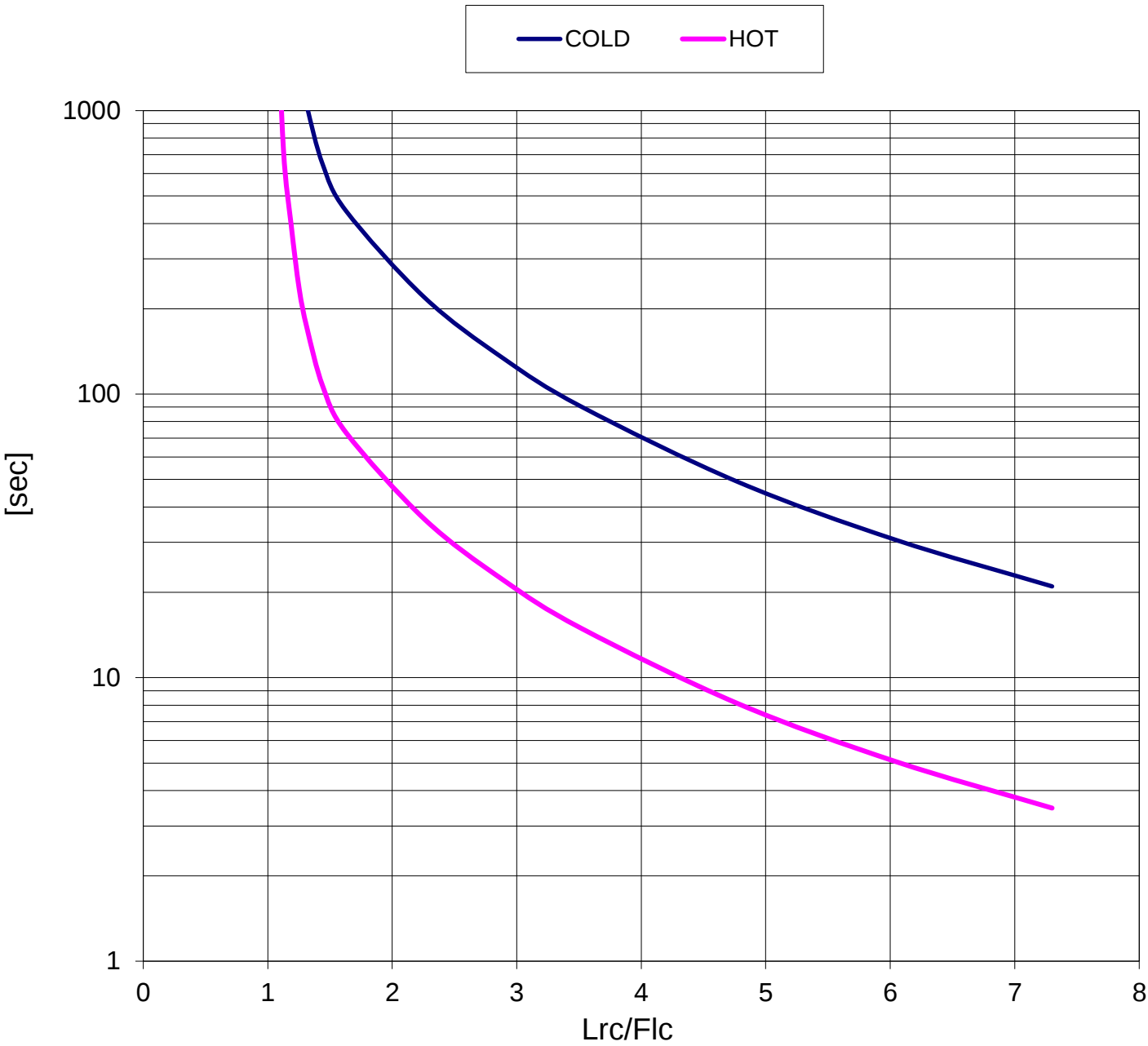
Valori calcolati - Data obtained by calculation method

Data / Date 28 January 2022

CURVA LIMITE CORRENTE TEMPO  
THERMAL WITHSTAND CURVE

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

|                                            |              |        |
|--------------------------------------------|--------------|--------|
| Motore / Motor                             | AC30 355LC 4 |        |
| Potenza nominale / Rated power             | 355,00       | kW     |
| Poli / Pole                                | 4            |        |
| Tensione - Frequenza / Voltage - Frequency | 400 - 50     | V - Hz |
| Corrente / Rated current                   | 602,66       | A      |
| Velocità / Speed                           | 1491         | rpm    |
| Coppia / Torque                            | 2273,81      | Nm     |



Valori calcolati - Data obtained by calculation method

Data / Date 28 January 2022

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

Cliente / Customer -

Impianto / Plant -  
**ITEM** -

Numero d'offerta / Offer Number -  
-

**Motore / Motor**

**AC30 355LC 4**

Potenza nominale / Rated power 355,00 kW

Poli / Pole 4

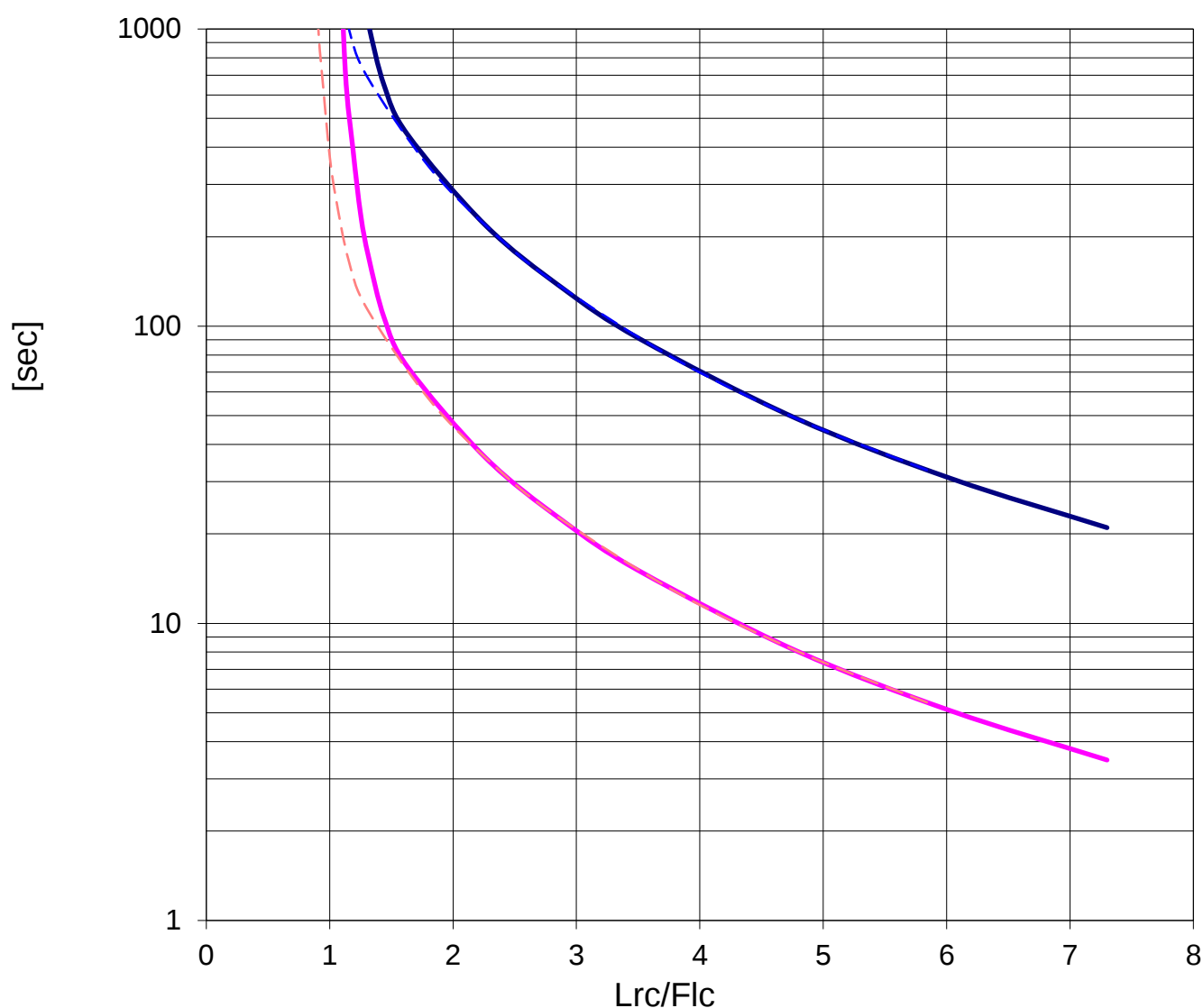
Tensione - Frequenza / Voltage - Frequency 400 - 50 V - Hz

Corrente / Rated current 602,66 A

Velocità / Speed 1491 rpm

Coppia / Torque 2273,81 Nm

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



Valori calcolati - Data obtained by calculation method