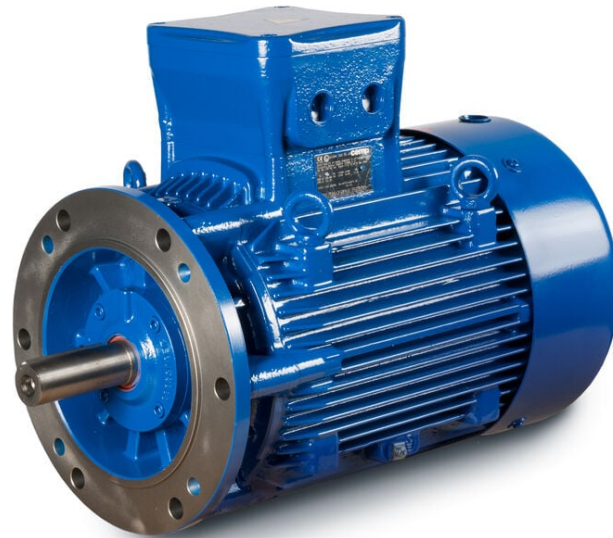


# PRODUCT INFORMATION PACKET

Model No: E3AC3002185B50D41100

Catalog No: E3AC3002185B50D41100

Made in Italy E3AC30 Series, General Purpose Low Voltage IEC motor IE3, Flameproof, 30,00kW,  
3 phase, 2973 RPM, D400/Y690V 50Hz, 180L Frame B5, 2 Poles, IC411, Higher Output Motor



Regal and CEMP are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E

### Nameplate Specifications

|                            |                 |                        |                                    |
|----------------------------|-----------------|------------------------|------------------------------------|
| Phase                      | <b>3</b>        | Output HP              | <b>40 Hp</b>                       |
| Output KW                  | <b>30.0 kW</b>  | Voltage                | <b>400/690 V</b>                   |
| Speed                      | <b>2973 rpm</b> | Service Factor         | <b>1</b>                           |
| Frame                      | <b>180L</b>     | Enclosure              | <b>Totally Enclosed Fan Cooled</b> |
| Efficiency                 | <b>93.3 %</b>   | Ambient Temperature    | <b>40 °C</b>                       |
| Frequency                  | <b>50 Hz</b>    | Current                | <b>54.3 A</b>                      |
| Power Factor               | <b>0.85</b>     | Duty                   | <b>S1</b>                          |
| Insulation Class           | <b>F</b>        | Drive End Bearing Size | <b>6310</b>                        |
| Opp Drive End Bearing Size | <b>6310</b>     | UL                     | <b>No</b>                          |
| CSA                        | <b>No</b>       | CE                     | <b>Yes</b>                         |
| IP Code                    | <b>IP55</b>     | Number of Speeds       | <b>1</b>                           |

### Technical Specifications

|                       |                      |                       |                         |
|-----------------------|----------------------|-----------------------|-------------------------|
| Electrical Type       | <b>Squirrel Cage</b> | Starting Method       | <b>Direct On Line</b>   |
| Poles                 | <b>2</b>             | Rotation              | <b>Bi-Directional</b>   |
| Mounting              | <b>B5</b>            | Motor Orientation     | <b>Horizontal</b>       |
| Drive End Bearing     | <b>Zz C3</b>         | Opp Drive End Bearing | <b>Zz C3</b>            |
| Frame Material        | <b>Cast Iron</b>     | Shaft Type            | <b>Keyed</b>            |
| Overall Length        | <b>1008.00 mm</b>    | Frame Length          | <b>484.00 mm</b>        |
| Shaft Diameter        | <b>48.000 mm</b>     | Shaft Extension       | <b>110 mm</b>           |
| Assembly/Box Mounting | <b>Top</b>           |                       |                         |
| Connection Drawing    | <b>SC-01-T-1v-1a</b> | Outline Drawing       | <b>B5A04E8180001B01</b> |

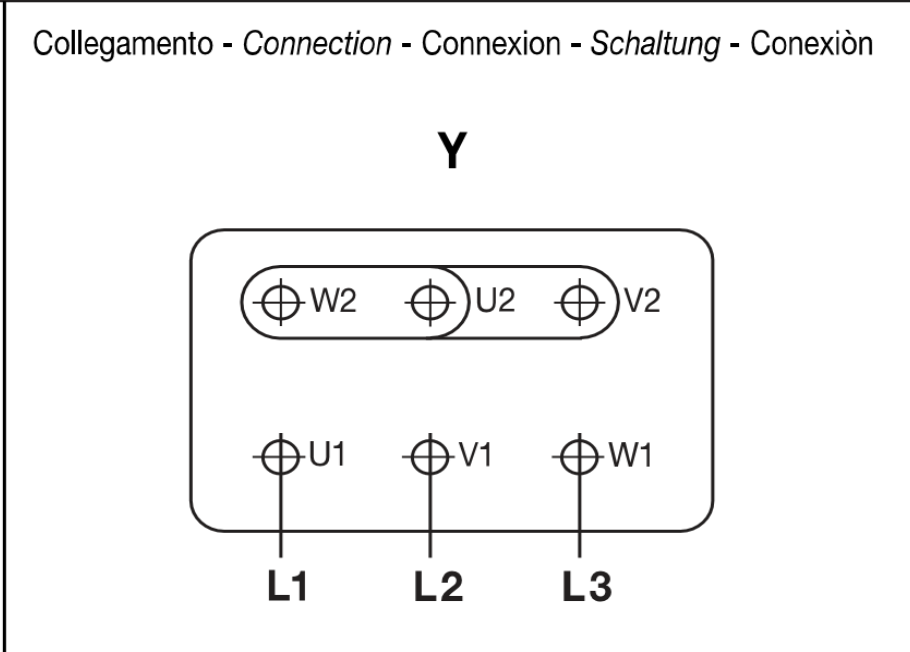
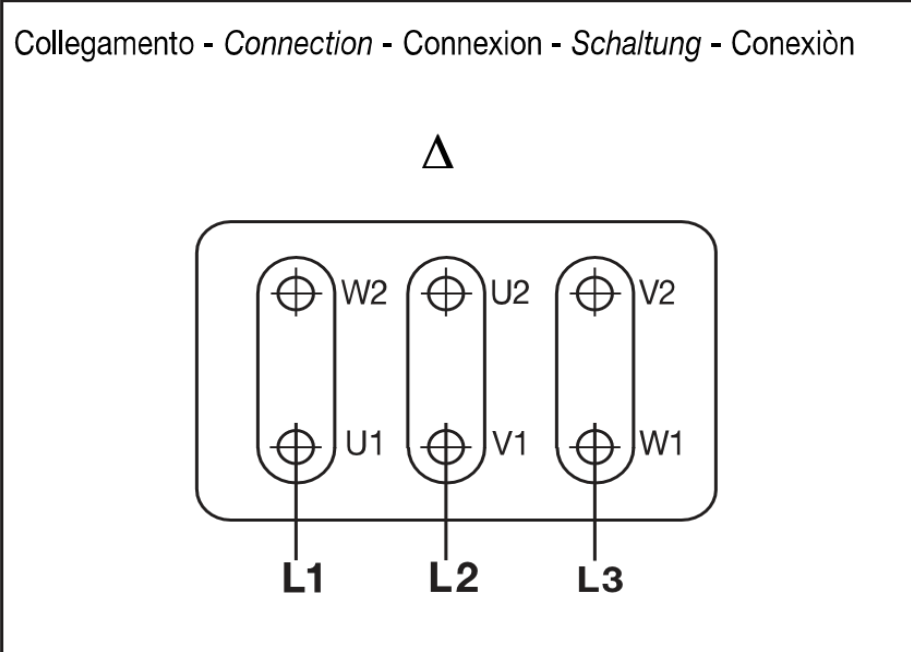
This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:05/03/2023

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



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 (IEC60034-8)</i></b> |  |   |
|--|--|---|
| <b>Marcatura<br/><i>Marking</i></b>  | <b>No.<br/>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  |   |
| R4 - R5 - R6 (II sensore - <i>sensor</i> )   | 3  | Termistore PT100 3 fili - <i>Thermistor PT 100 with 3 wires</i>           |
| R7 - R8 - R9 (III sensore - <i>sensor</i> )  | 3  |   |
| R11 - R12 - R13 (anteriore - <i>DE</i> )   | 3  |   |
| R21 - R22 - R23 (posteriore - <i>NDE</i> )   | 3  | Termistore PT100 su cuscinetto - <i>Thermistor PT 100 on bearing</i>      |
| TB1 - TB2 (allarme- <i>warning</i> )   | 2  | Protettore bimetallico normalmente chiuso -                               |
| TB3 - TB4 (intervento- <i>switch off</i> )   | 2  | <i>Normally closed bi-metallic switch (**)</i>                            |
| TB8 - TB9 (intervento- <i>switch off</i> )   | 2  | Protettore bimetallico del freno normalmente chiuso -                     |
|  |  | <i>NC brake bi-metallic switch (**)</i>                                   |
| TM1 - TM2 (allarme- <i>warning</i> )   | 2  | Protettore bimetallico normalmente aperto -                               |
| TM3 - TM4 (intervento- <i>switch off</i> )   | 2  | <i>Normally open bi-metallic switch (**)</i>                              |
| 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 | CEMP    |
| Offerta / Offer    | : 2021. |
| 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                   |           | E3AC30 180L 2     |
| 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      |           |                   |
| <b>Dati nominali / Rated data</b>                          |  |           |                   |
| 7  | Poli / Pole                                | n°        | 2                 |
| 8  | Potenza nominale / Rated power             | kW        | 30,00             |
| 9  | Corrente nominale / Rated current          | A         | 54,35             |
| 10   | Velocità nominale / Full Load speed        | 1/min     | 2973              |
| 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               |
| <b>Performances elettriche / Electrical performances</b>   |  |           |                   |
| Carico / Load  |  | 4/4       | 3/4               |
| 18   | Giri / Speed                               | 1/min     | 2973              |
| 19   | Corr. / Curr.                              | A         | 54,35             |
| 20   | Rend / Eff                                 | %         | 93,3              |
| 21   | cos φ                                      | -         | 0,85              |
| <b>Performances all'avviamento / Starting performances</b> |  |           |                   |
| 22   | Ia/In - LRC/FLC                            | %         | 750               |
| 23   | Cosphi a rotore bloccato / LR power factor |           | 0,37              |
| Tempo a rotore bloccato / LRWT                             |  |           |                   |
| 24   | 100% Un (A caldo / Warm)                   | sec       | 6                 |
| 25   | (A freddo / Cold)                          | sec       | 16                |
| 26   | 80% Un (A caldo / Warm)                    | sec       | 9                 |
| 27   | (A freddo / Cold)                          | sec       | 25                |
| Tempo di avviamento ammissibile / ART                      |  |           |                   |
| 28   | 100% Un                                    | sec       | 14                |
| 29   | 80% Un                                     | sec       | 21                |
| <b>Curva di coppia / Speed-torque values</b>               |  |           |                   |
| 30   | Coppia nominale / Rated Torque             | Nm        | 96,36             |
| 31   | Ca/Cn - LRT/FLT                            | %         | 215               |
| 32   | Cmax/Cn - BDT/FLT                          | %         | 330               |
| 33   |  |           |                   |
| 34   |  |           |                   |
| 35   |  |           |                   |
| <b>Varie / Other</b>                                       |  |           |                   |
| 36   |  |           |                   |
| 37   |  |           |                   |
| 38   |  |           |                   |
| 39   |  |           |                   |

|  |  |           |                         |
|--|--|-----------|-------------------------|
| <b>Servizio / Duty</b>   |  |           |                         |
| 40   | Servizio / Duty type                       | -         | S1                      |
| 41   | Intermittenza / Cyclic duration factor     | -         | -                       |
| 42   | Avviamenti-ora / Starting-hour             | -         | -                       |
| 43   | Tempo ciclo / Time                         |           | -                       |
| <b>Cuscinetti / Bearings</b>                                       |  |           |                         |
| 44   | Cuscinetto ant / DE bearing                | -         | 6310 ZZ C3              |
| 45   | Cuscinetto post / NDE bearing              | -         | 6310 ZZ C3              |
| 46   | Carico radiale max / Max radial load in X1 | N         | 3200                    |
| 47   | Carico assiale max / Max axial load        | N         | 880                     |
| 48   | Tipo grasso / Grease type                  |           | LGHP2 SKF or equivalent |
| 49   | Intervallo lubrificazione / Lubrication    | h         | -                       |
| 50   | Quantità grasso / Quantity grease          | gr        | -                       |
| <b>Caratteristiche meccaniche / mechanical specification</b>       |  |           |                         |
| 51   | Massa / Mass                               | kg        | 306,3                   |
| 52   | Momento d'inerzia / Moment of inertia      | kgm2      | 0,1265                  |
| 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   |  |           |                         |
| <b>Dati entrata cavi - verniciatura / Cable entry and painting</b> |  |           |                         |
| 63   | Entrata cavi / Cable entry                 |           | 2xM40                   |
| 64   | Ciclo verniciatura / Painting cycle        |           | STD                     |
| 65   | Colore finale / Final colour               | RAL       | 5010                    |
| 66   |  |           |                         |
| 67   |  |           |                         |
| 68   |  |           |                         |
| 69   |  |           |                         |
| 70   |  |           |                         |
| 71   |  |           |                         |
| <b>Ausiliari - Auxiliaries</b>                                     |  |           |                         |
| 72   | Sonde termiche / Temperature detector      | winding   | -                       |
| 73   | Sonde termiche / Temperature detector      | bearing   | -                       |
| 74   | Scaldiglie / Heaters                       | V / W     | -                       |
| 75   | Preparazione per SPM sensor                |           | -                       |
| 76   | Pressacavi / Cable glands                  |           | NO                      |
| 77   |  |           |                         |