

## Описание на двигатели поверхностные нормализованные. Серия MT

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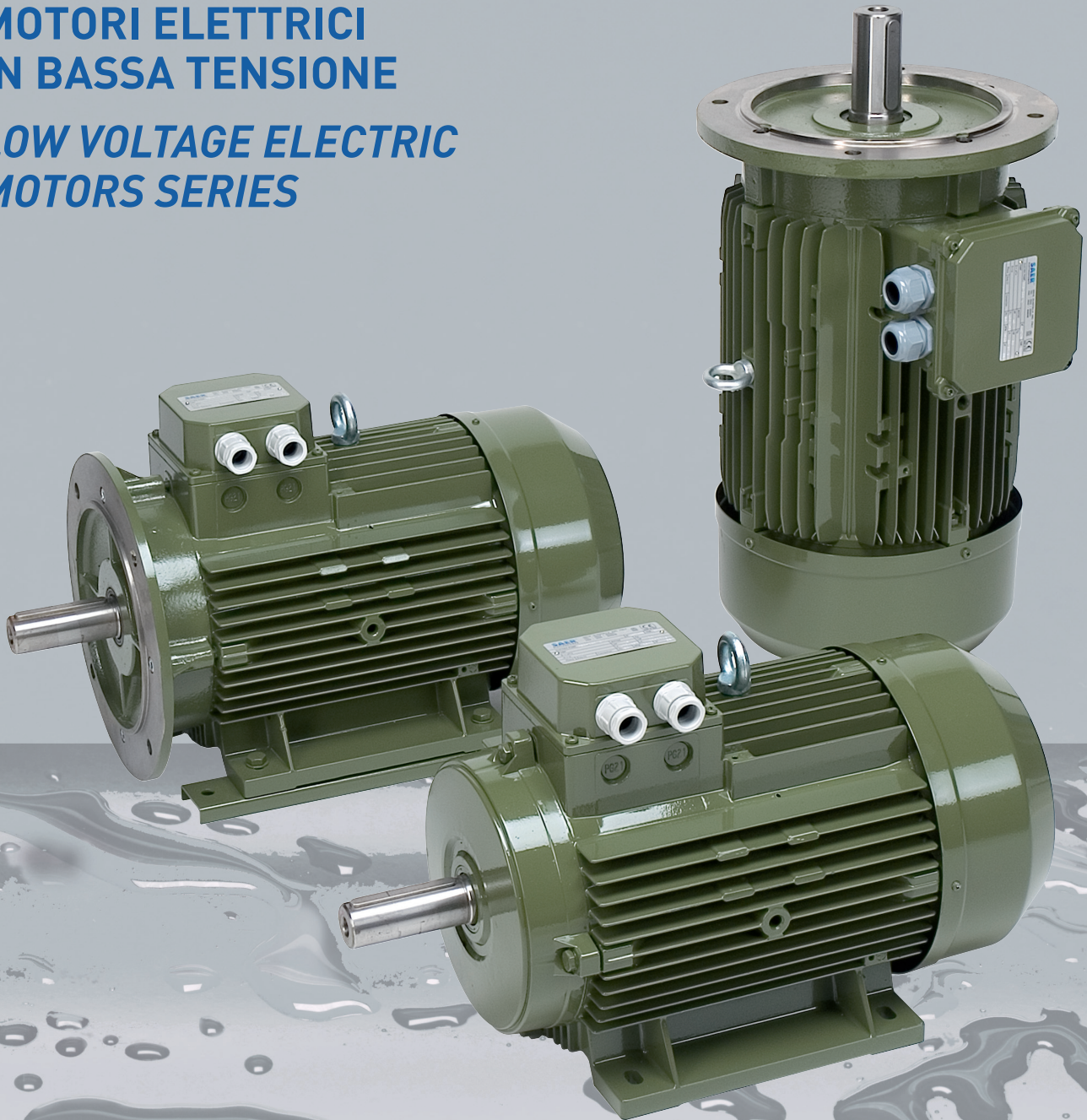
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# MT

**MOTORI ELETTRICI  
IN BASSA TENSIONE**

***LOW VOLTAGE ELECTRIC  
MOTORS SERIES***





### INGLESE

#### USES

Low voltage motors for industrial uses

#### PRODUCT DESCRIPTION - Standard version

Low voltage three phases motor: totally enclosed fan cooled induction motors with squirrel cage rotor (TEFC). Shaft with cylindrical end and key connection.

Method of cooling: IC 411 according to IEC 60034-6

The normalized motors have the dimensions according to IEC 60072-1

Insulation class: motors up to constructive size 71: B class, for bigger sizes: F class.

Protection degree: motors up to 71 constructive size : IP44, for bigger constructive sizes: IP55

Up to 5,5 kW motors can be supplied also in one phase version with starting through electrolytic capacitor, 2 or 4 poles version

Shaft balancing: if not differently declared, shafts are balanced with half key.

All motors 100% tested

#### FEATURES

Speed: 2,4 o 6 poles version available

Constructive forms and allowed mounting arrangements: see TAB.II

Single phase versions: 2 poles: power from 0,125 kW up to 5,5 kW, 4 poles: power from 0,092 kW to 4 kW

Three phase versions: 2 poles: power from 0,75 kW up to 11 kW, 4 poles: power from 0,75 kW to 30 kW, 6 poles: power from 0,37 kW up to 160 kW

Standard voltages: 1~ 220-230 V / 3 ~ 380-400 (50Hz) ; 440- 460 (60 Hz)

Frequency: 50 Hz e 60 Hz

Tension and frequency variations when working: respect A zone according to IEC 60034-1 (tension  $\pm 5\%$ ; frequency  $\pm 2\%$ ).

Continuous working S1

Tolerance in conformity to IEC 60034-1

#### LUBRICATING THE BEARINGS

**Motors with the bearings permanently lubricated with grease:** for the motors up to the construction size 180 the bearings are of the permanently lubricated type (with grease) and they do not request any maintenance. The intervals of the indicative changing are indicated in the table IV (foreseen duration according to L10).

**Motors with the greaseable bearings:** the motors with the constructing size more than 180 are equipped with the appropriate lubricator. Intervals of the lubrication: see table V

#### MATERIALS:

alluminium frame up to frame size 180, cast iron frame for

#### ENVIRONMENTAL CONDITIONS OF WORKING

Ambient temperature: min-10°C , max + 40°C

Relative humidity: 60% (@ + 40°C)

Altitude: max 1.000 m s.l.m.

#### SPECIAL VERSIONS

Version with thermal protection PTC

Version with thermal probe PT100

Version with anti-condensation devices

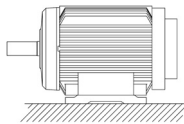
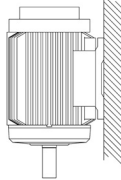
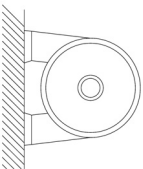
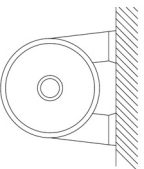
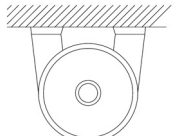
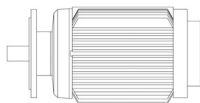
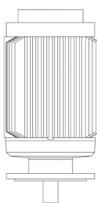
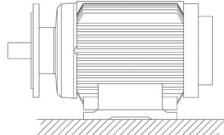
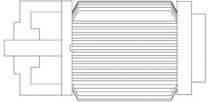
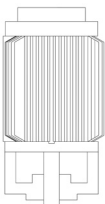
**TAB. I - Condizioni ambientali di funzionamento**  
**Environmental conditions of working**

|                                      |                    |
|--------------------------------------|--------------------|
| Temperatura / Temperature            | -10° / + 40°C      |
| Umidità relativa / Relative humidity | 60% (@ + 40°C)     |
| Altitudine / Altitude                | max 1.000 m s.l.m. |

**TAB. II - Valori di rumorosità**  
**Noise levels**

| Potenza nominale motore<br>Rated power of motor<br><br>Kw | Livello pressione sonora<br>Noise level<br><br>dBA |            |            |
|-----------------------------------------------------------|----------------------------------------------------|------------|------------|
|                                                           | 1450 1/min                                         | 2900 1/min | 3600 1/min |
| ≤ 4                                                       | ≤ 54                                               | ≤ 73       | ≤ 77       |
| 5,5 ÷ 18,5                                                | ≤ 66                                               | ≤ 75       | ≤ 80       |
| 22 ÷ 45                                                   | ≤ 70                                               | ≤ 77       | ≤ 83       |
| 55 ÷ 90                                                   | ≤ 75                                               | ≤ 84       | ≤ 90       |
| > 90                                                      | > 90                                               |            |            |

**TAB. III - Forme costruttive e posizioni ammesse di installazione per versioni standard**  
**Constructive forms and allowed mounting arrangements for standard versions**

| Posizione base<br>Main mounting<br>arrangement                                                          | Altre posizioni ammesse - A richiesta<br>Different allowed mounting arrangement - Upon request          |                                                                                                        |                                                                                                         |                                                                                                          |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <br>IM B3 (IM 1001)  | <br>IM V5 (IM 1011)  | <br>IM B6 (IM 1051) | <br>IM B7 (IM 1061) | <br>IM B8 (IM 1071) |
| <br>IM B5 (IM 3001)  | <br>IM V1 (IM 3011)  |                                                                                                        |                                                                                                         |                                                                                                          |
| <br>IM B35 (IM 2101) |                                                                                                         |                                                                                                        |                                                                                                         |                                                                                                          |
| <br>IM B14 (IM 3601) | <br>IM V18 (IM 3611) |                                                                                                        |                                                                                                         |                                                                                                          |

**TAB. IV - Motori con altezza d'asse fino a 180: intervalli di sostituzione dei cuscinetti prelubrificati a vita (ingrassaggio permanente) - principio L<sub>10</sub>**  
**Motors with shaft height up to 180: terms of replacements for pre-lubricated bearings for life (permanent greasing) - principle L<sub>10</sub>**

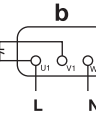
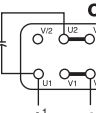
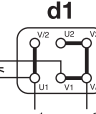
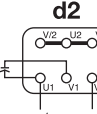
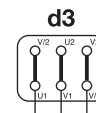
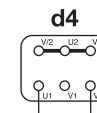
| Velocità di rotazione max.<br>Max rotational speed<br>1/min (rpm) | Temperatura ambiente max.<br>Max ambient temperature<br>°C | Intervallo di sostituzione<br>Terms of replacement |          |
|-------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------|----------|
|                                                                   |                                                            | O                                                  | V        |
| 1500                                                              | 40                                                         | 40.000 h                                           | 20.000 h |
| 1800                                                              | 40                                                         | 32.000 h                                           | 16.000 h |
| 3000                                                              | 40                                                         | 20.000 h                                           | 10.000 h |
| 3600                                                              | 40                                                         | 16.000 h                                           | 8.000 h  |

**O: funzionamento in orizzontale / Horizontal mounting - V: funzionamento in verticale / Vertical mounting**

**TAB. V - Motori dotati di ingrassatori: intervalli di rilubrificazione - principio L<sub>10</sub>**  
**Motors with greasers: re-lubrication terms - principle L<sub>10</sub>**

| Velocità di rotazione max.<br>Max rotation speed<br>1/min (rpm) | Potenza nominale<br>Rated power<br>kW | Temperatura ambiente max.<br>Max ambient temperature<br>°C | Intervallo di rilubrificazione<br>Re-lubrication terms |         |
|-----------------------------------------------------------------|---------------------------------------|------------------------------------------------------------|--------------------------------------------------------|---------|
|                                                                 |                                       |                                                            | O                                                      | V       |
| 1500                                                            | ≤ 37                                  | 40                                                         | 6.000 h                                                | 3.000 h |
|                                                                 | 45 ÷ 90                               |                                                            | 4.000 h                                                | 2.000 h |
|                                                                 | 110 ÷ 132                             |                                                            | 3.000 h                                                | 1.500 h |
|                                                                 | > 132                                 |                                                            | 2.500 h                                                | 1.250 h |
| 1800                                                            | ≤ 37                                  | 40                                                         | 4.800 h                                                | 2.400 h |
|                                                                 | 45 ÷ 90                               |                                                            | 3.200 h                                                | 1.600 h |
|                                                                 | 110 ÷ 132                             |                                                            | 2.400 h                                                | 1.200 h |
|                                                                 | > 132                                 |                                                            | 2.000 h                                                | 1.000 h |
| 3000                                                            | ≤ 37                                  | 40                                                         | 3.000 h                                                | 1.500 h |
|                                                                 | 45 ÷ 90                               |                                                            | 2.000 h                                                | 1.000 h |
|                                                                 | 110 ÷ 132                             |                                                            | 1.500 h                                                | 750 h   |
|                                                                 | > 132                                 |                                                            | 1.250 h                                                | 625 h   |
| 3600                                                            | ≤ 37                                  | 40                                                         | 2.400 h                                                | 1.200 h |
|                                                                 | 45 ÷ 90                               |                                                            | 1.600 h                                                | 800 h   |
|                                                                 | 110 ÷ 132                             |                                                            | 1.200 h                                                | 600 h   |
|                                                                 | > 132                                 |                                                            | 1.000 h                                                | 500 h   |

**FIG. 1 SCHEMI DI COLLEGAMENTO / CONNECTION DIAGRAMS**

|                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                              | <b>a)</b> monofase per alimentazione a tensione unica senza condensatore<br>single-phase for a single voltage power supply without condenser                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                              | <b>b)</b> monofase per alimentazione a tensione unica con condensatore<br>single-phase for a single voltage power supply with condenser                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                              | <b>c)</b> monofase per alimentazione a tensione unica con condensatore per potenze 3 e 4 Kw<br>single-phase for single voltage power supply with condenser for power of 3 and 4 kW                                                                                                                                                                                                                                               |
|     | <b>d)</b> monofase per alimentazione a due possibili tensioni con condensatore (d1= tensione bassa; d2= tensione alta), trifase per alimentazione a due possibili tensioni (d3=tensione bassa; d4= tensione alta)<br>single-phase for power supply with two possible voltages with condenser (d1= low voltage; d2= high voltage);<br>three-phase for power supply with two possible voltages (d3= low voltage; d4= high voltage) |

# MOTORI ASINCRONI 2 POLI

## 2 POLES ASYNCHRONOUS MOTORS

# MT2

# 50 Hz

(2900 1/min)

### DATI TECNICI MONOFASE • SINGLE-PHASE TECHNICAL FEATURES

| Grandezza<br>Frame size | Pn    |      | Nn    | Mn    | In<br>[Un=230V] | cos  |    | Ms/Mn | Is/In | Jo              | Peso<br>Weight |
|-------------------------|-------|------|-------|-------|-----------------|------|----|-------|-------|-----------------|----------------|
| IEC                     | kW    | HP   | 1/min | Nm    | A               |      | %  |       |       | Nm <sup>2</sup> | Kg             |
| 63M                     | 0,125 | 0,17 | 2780  | 0,42  | 0,96            | 0,99 | 56 | 0,48  | 2,5   | 0,0012          | 4,0            |
| 63M                     | 0,18  | 0,25 | 2600  | 0,67  | 1,40            | 0,99 | 55 | 0,45  | 2,3   | 0,0012          | 4,3            |
| 63M                     | 0,25  | 0,33 | 2700  | 0,87  | 1,90            | 0,95 | 59 | 0,45  | 2,7   | 0,0015          | 4,6            |
| 63M*                    | 0,37  | 0,5  | 2720  | 1,29  | 2,50            | 0,95 | 67 | 0,40  | 2,9   | 0,0019          | 5,0            |
| 63M*                    | 0,55  | 0,75 | 2750  | 1,92  | 3,70            | 0,95 | 68 | 0,40  | 3     | 0,0025          | 5,2            |
| 71M                     | 0,37  | 0,5  | 2750  | 1,17  | 2,00            | 0,96 | 61 | 0,74  | 3     | 0,0030          | 6,3            |
| 71M                     | 0,55  | 0,75 | 2750  | 1,76  | 3,80            | 0,96 | 65 | 0,70  | 3,1   | 0,0038          | 7,2            |
| 71M*                    | 0,75  | 1    | 2730  | 2,57  | 4,90            | 0,97 | 67 | 0,51  | 3,3   | 0,0046          | 8,5            |
| 71M*                    | 1,1   | 1,5  | 2720  | 3,51  | 7,60            | 0,96 | 66 | 0,90  | 3,3   | 0,0061          | 9,3            |
| 80M                     | 0,75  | 1    | 2760  | 2,34  | 5,40            | 0,95 | 66 | 0,90  | 3,3   | 0,0071          | 8,8            |
| 80M                     | 1,1   | 1,5  | 2650  | 3,98  | 7,80            | 0,94 | 65 | 0,69  | 2,7   | 0,0090          | 10,8           |
| 80M*                    | 1,5   | 2    | 2730  | 4,69  | 10,20           | 0,97 | 68 | 0,80  | 3,3   | 0,011           | 11,9           |
| 90S                     | 1,1   | 1,5  | 2750  | 4,69  | 10,00           | 0,96 | 67 | 0,74  | 3,3   | 0,013           | 13,8           |
| 90S                     | 1,5   | 2    | 2720  | 5,16  | 9,60            | 0,96 | 69 | 0,60  | 3,3   | 0,015           | 14,1           |
| 90L                     | 2,2   | 3    | 2750  | 7,67  | 13,40           | 0,97 | 74 | 0,57  | 3,7   | 0,018           | 16,5           |
| 100L                    | 2,2   | 3    | 2800  | 7,03  | 13,40           | 0,97 | 73 | 0,80  | 3,1   | 0,029           | 20,8           |
| 100L                    | 3     | 4    | 2770  | 10,15 | 17,40           | 0,98 | 75 | 0,61  | 3,6   | 0,034           | 23,0           |
| 112M                    | 4     | 5,5  | 2790  | 13,85 | 23,50           | 0,97 | 77 | 0,60  | 3,6   | 0,054           | 29,5           |
| 112                     | 5,5   | 7,5  | 2810  | 18,76 | 31,00           | 0,98 | 79 | 0,62  | 3,8   | 0,065           | 34,5           |

### DATI TECNICI TRIFASE • THREE-PHASE TECHNICAL FEATURES

| Grandezza<br>Frame size | Pn   |     | Nn    | Mn   | In<br>[Un=400V] | cos  |      | Ms/Mn | Is/In | Jo              | Peso<br>Weight |
|-------------------------|------|-----|-------|------|-----------------|------|------|-------|-------|-----------------|----------------|
| IEC                     | kW   | HP  | 1/min | Nm   | A               |      | %    |       |       | Nm <sup>2</sup> | Kg             |
| 80M*                    | 0,75 | 1   | 2770  | 2,5  | 2,2             | 0,84 | 73   | 2,3   | 6     | 0,048           | 9,1            |
| 90S                     | 1,5  | 2   | 2840  | 5,1  | 3,5             | 0,84 | 78,5 | 2,4   | 6     | 0,071           | 12             |
| 90L                     | 2,2  | 3   | 2840  | 7,5  | 5,1             | 0,85 | 81   | 2,4   | 6     | 0,093           | 15             |
| 100L                    | 3    | 4   | 2840  | 10,1 | 6,6             | 0,87 | 82,6 | 2,6   | 7     | 0,15            | 22,3           |
| 112M                    | 4    | 5,5 | 2880  | 13,8 | 8,5             | 0,87 | 84,2 | 2,6   | 7,5   | 0,19            | 26,7           |
| 132S                    | 5,5  | 7,5 | 2900  | 18,5 | 11,1            | 0,88 | 85,7 | 2,5   | 7,5   | 0,36            | 38,5           |
| 132M                    | 7,5  | 10  | 2920  | 25,2 | 15              | 0,88 | 87   | 2,5   | 7,5   | 0,45            | 42,2           |
| 160M                    | 11   | 15  | 2940  | 37   | 22              | 0,9  | 88,4 | 2,5   | 7,5   | 0,68            | 75             |

Pn: Potenza nominale • *Rated Output*

Nn: Velocità nominale • *RPM*

Mn: Coppia nominale • *Rated torque*

In: Corrente nominale • *Rated Current*

Un: Tensione nominale • *Rated Voltage*

cos : Fattore di potenza • *Power factor*

: Rendimento • *Efficiency*

Ms/Mn: Coppia avviamento/Coppia nominale • *Locked rotor Torque/Rated Torque*

Is/In: Corrente avviamento/Corrente nominale • *Locked rotor current/Rated amperage*

SERVIZIO • *SERVICE* **S1**

Tolleranze secondo Norme IEC EN 60034-1 • *Tolerance in conformity to IEC EN 60034-1*

**MOTORI ASINCRONI 4 POLI**  
**4 POLES ASYNCHRONOUS MOTORS**
**MT4**
**50 Hz**  
**(1450 1/min)**
**DATI TECNICI MONOFASE • SINGLE-PHASE TECHNICAL FEATURES**

| Grandezza<br>Frame size | P <sub>n</sub> |       | N <sub>n</sub> | M <sub>n</sub> | I <sub>n</sub><br>[U <sub>n</sub> =230V] | cos  |    | M <sub>s</sub> /M <sub>n</sub> | I <sub>s</sub> /I <sub>n</sub> | J <sub>o</sub>  | Peso<br>Weight |
|-------------------------|----------------|-------|----------------|----------------|------------------------------------------|------|----|--------------------------------|--------------------------------|-----------------|----------------|
| IEC                     | kW             | HP    | 1/min          | Nm             | A                                        |      | %  |                                |                                | Nm <sup>2</sup> | Kg             |
| <b>63M</b>              | 0,092          | 0,125 | 1320           | 0,67           | 1                                        | 0,93 | 43 | 0,55                           | 2,3                            | 0,00144         | 4,2            |
| <b>63M</b>              | 0,125          | 0,17  | 1350           | 1,17           | 1,7                                      | 0,95 | 50 | 0,67                           | 2,2                            | 0,00179         | 4,6            |
| <b>63M</b>              | 0,184          | 0,25  | -              | -              | -                                        | -    | -  | -                              | -                              | 0,0023          | 4,8            |
| <b>63M*</b>             | 0,245          | 0,33  | 1320           | 1,77           | 2,1                                      | 0,91 | 55 | 0,53                           | 2,2                            | 0,00282         | 5,1            |
| <b>71M</b>              | 0,245          | 0,33  | 1320           | 1,56           | 2,2                                      | 0,95 | 51 | 0,8                            | 2,2                            | 0,00677         | 5,7            |
| <b>71M</b>              | 0,37           | 0,5   | 1330           | 2,68           | 3,3                                      | 0,92 | 55 | 0,71                           | 2,6                            | 0,00901         | 6,6            |
| <b>71M*</b>             | 0,55           | 0,75  | -              | -              | -                                        | -    | -  | -                              | -                              | 0,0118          | 7,2            |
| <b>80M</b>              | 0,37           | 0,5   | 1340           | 2,62           | 3                                        | 0,97 | 55 | 0,7                            | 2,4                            | 0,0137          | 7,6            |
| <b>80M</b>              | 0,55           | 0,75  | 1340           | 3,51           | 4,3                                      | 0,95 | 61 | 0,65                           | 2,6                            | 0,0173          | 8,9            |
| <b>80M*</b>             | 0,74           | 1     | 1350           | 4,69           | 5,4                                      | 0,95 | 64 | 0,65                           | 2,8                            | 0,0221          | 9,9            |
| <b>80M*</b>             | 1,1            | 1,5   | 1340           | 7,85           | 7,7                                      | 0,95 | 65 | 0,55                           | 3,2                            | 0,0292          | 11,2           |
| <b>90S</b>              | 1,1            | 1,5   | 1350           | 7,81           | 7,1                                      | 0,97 | 70 | 0,55                           | 3                              | 0,0242          | 13,7           |
| <b>90L</b>              | 1,5            | 2     | 1330           | 10,57          | 9,4                                      | 0,98 | 65 | 0,62                           | 2,3                            | 0,0299          | 15,2           |
| <b>90L</b>              | 1,84           | 2,5   | 1330           | 13,2           | 12,3                                     | 0,97 | 67 | 0,62                           | 2,5                            | 0,0346          | 17,5           |
| <b>90L</b>              | 2,2            | 3     | 1300           | 16,2           | 14,7                                     | 0,97 | 68 | 0,5                            | 2,7                            | 0,0346          | 17,5           |
| <b>100L</b>             | 2,2            | 3     | 1390           | 15,06          | 13,5                                     | 0,98 | 75 | 0,53                           | 3,9                            | 0,0571          | 22,6           |
| <b>112M</b>             | 3              | 4     | 1390           | 20,2           | 17,1                                     | 0,99 | 76 | 0,4                            | 3,3                            | 0,104           | 29             |
| <b>112M</b>             | 4              | 5,5   | 1380           | 28             | 23,8                                     | 0,98 | 75 | 0,48                           | 3,5                            | 0,132           | 32,5           |

**DATI TECNICI TRIFASE • THREE-PHASE TECHNICAL FEATURES**

| Grandezza<br>Frame size | P <sub>n</sub> |     | N <sub>n</sub> | M <sub>n</sub> | I <sub>n</sub><br>[U <sub>n</sub> =400V] | cos  |      | M <sub>s</sub> /M <sub>n</sub> | I <sub>s</sub> /I <sub>n</sub> | J <sub>o</sub>  | Peso<br>Weight |
|-------------------------|----------------|-----|----------------|----------------|------------------------------------------|------|------|--------------------------------|--------------------------------|-----------------|----------------|
| IEC                     | kW             | HP  | 1/min          | Nm             | A                                        |      | %    |                                |                                | Nm <sup>2</sup> | Kg             |
| <b>80M*</b>             | 0,75           | 1   | 1380           | 5,1            | 3,3                                      | 0,78 | 72   | 2,3                            | 6                              | 0,068           | 10             |
| <b>90L</b>              | 1,5            | 2   | 1400           | 10             | 4                                        | 0,8  | 78,5 | 2,3                            | 6                              | 0,11            | 14,6           |
| <b>100L</b>             | 2,2            | 3   | 1420           | 11,5           | 5,6                                      | 0,81 | 81   | 2                              | 7                              | 0,21            | 21             |
| <b>100L</b>             | 3              | 4   | 1420           | 20             | 7,2                                      | 0,81 | 82,6 | 2                              | 7                              | 0,27            | 24,7           |
| <b>112M</b>             | 4              | 5,5 | 1430           | 27,5           | 8,8                                      | 0,83 | 84,2 | 2,4                            | 7                              | 0,36            | 30,5           |
| <b>132S</b>             | 5,5            | 7,5 | 1450           | 37             | 12                                       | 0,84 | 85,7 | 2,1                            | 7                              | 0,82            | 40,4           |
| <b>132M</b>             | 7,5            | 10  | 1450           | 50             | 14                                       | 0,85 | 87   | 2,1                            | 7                              | 1,1             | 49,6           |
| <b>160M</b>             | 11             | 15  | 1460           | 73             | 23,5                                     | 0,87 | 88,4 | 2,6                            | 7                              | 1,75            | 78             |
| <b>160L</b>             | 15             | 20  | 1460           | 100            | 34                                       | 0,87 | 88,4 | 2,6                            | 7,5                            | 3,19            | 98             |
| <b>180M</b>             | 18,5           | 25  | 1470           | 125            | 37,5                                     | 0,84 | 90   | 2,5                            | 6,5                            | 3,55            | 110            |
| <b>180L</b>             | 22             | 30  | 1470           | 148            | 46                                       | 0,84 | 90   | 2,5                            | 6,5                            | 4,44            | 119            |
| <b>200L</b>             | 30             | 40  | 1470           | 200            | 53,1                                     | 0,86 | 91   | 2,4                            | 6,5                            | 6,42            | 155            |

P<sub>n</sub>: Potenza nominale • *Rated Output*

N<sub>n</sub>: Velocità nominale • *RPM*

M<sub>n</sub>: Coppia nominale • *Rated torque*

I<sub>n</sub>: Corrente nominale • *Rated Current*

U<sub>n</sub>: Tensione nominale • *Rated Voltage*

cos : Fattore di potenza • *Power factor*

: Rendimento • *Efficiency*

M<sub>s</sub>/M<sub>n</sub>: Coppia avviamento/Coppia nominale • *Locked rotor Torque/Rated Torque*

I<sub>s</sub>/I<sub>n</sub>: Corrente avviamento/Corrente nominale • *Locked rotor current/Rated amperage*

SERVIZIO • *SERVICE* **S1**

Tolleranze secondo Norme IEC EN 60034-1 • *Tolerance in conformity to IEC EN 60034-1*

# MOTORI ASINCRONI TRIFASE 6 POLI

## 6 POLES THREE-PHASE ASYNCHRONOUS MOTORS

# MT6

# 50 Hz

(980 1/min)

### DATI TECNICI TRIFASE • THREE-PHASE TECHNICAL FEATURES

| Grandezza<br>Frame size | P <sub>n</sub> |      | N <sub>n</sub> | M <sub>n</sub> | I <sub>n</sub><br>[U <sub>n</sub> =400V]<br>A | cos  |      | M <sub>s</sub> /M <sub>n</sub> |      | I <sub>s</sub> /I <sub>n</sub> | J <sub>0</sub>  |
|-------------------------|----------------|------|----------------|----------------|-----------------------------------------------|------|------|--------------------------------|------|--------------------------------|-----------------|
| IEC                     | kW             | HP   | 1/min          | Nm             |                                               |      | %    |                                |      |                                | Nm <sup>2</sup> |
| 80                      | 0,37           | 0,5  | 900            | 3,7            | 1,2                                           | 0,71 | 66   | 1,8                            | 3    | 0,064                          | 7,4             |
| 80                      | 0,55           | 0,75 | 900            | 5,5            | 1,7                                           | 0,71 | 69   | 2,05                           | 3,5  | 0,098                          | 9,8             |
| 90S                     | 0,75           | 1    | 910            | 7,4            | 2,2                                           | 0,72 | 72   | 1,9                            | 3,8  | 0,118                          | 10,8            |
| 90L                     | 1,1            | 1,5  | 910            | 11,0           | 3,2                                           | 0,72 | 73   | 2                              | 4    | 0,177                          | 13,5            |
| 100L                    | 1,5            | 2    | 920            | 14,7           | 4,1                                           | 0,74 | 75   | 2,1                            | 4,7  | 0,334                          | 19,6            |
| 112M                    | 2,2            | 3    | 940            | 22,2           | 5,7                                           | 0,76 | 77   | 2,2                            | 5,5  | 0,510                          | 25              |
| 132S                    | 3              | 4    | 950            | 29,6           | 7,3                                           | 0,77 | 80   | 2                              | 5,6  | 0,903                          | 39              |
| 132M                    | 4              | 5,5  | 950            | 40,2           | 9,6                                           | 0,77 | 81   | 1,86                           | 5,8  | 0,118                          | 45,5            |
| 132M                    | 5,5            | 7,5  | 950            | 53,5           | 13                                            | 0,77 | 83   | 1,86                           | 6    | 1,570                          | 52,5            |
| 160M                    | 7,5            | 10   | 960            | 72,8           | 17,5                                          | 0,81 | 85   | 2,4                            | 6    | 2,099                          | 69              |
| 160L                    | 11             | 15   | 960            | 106,9          | 24,5                                          | 0,81 | 86   | 2,3                            | 6,4  | 4,277                          | 88              |
| 180L                    | 15             | 20   | 970            | 143,4          | 29,5                                          | 0,82 | 87   | 2,3                            | 7,2  | 5,543                          | 114             |
| 200L                    | 18,5           | 25   | 975            | 177,2          | 36                                            | 0,83 | 88   | 2,3                            | 6,8  | 10,595                         | 145             |
| 200L                    | 22             | 30   | 975            | 210,3          | 42,5                                          | 0,83 | 88   | 2,4                            | 6,8  | 12,557                         | 155             |
| 250M                    | 37             | 50   | 980            | 351,4          | 68                                            | 0,86 | 91   | 2,4                            | 6,85 | 29,430                         | 295             |
| 280S                    | 45             | 60   | 985            | 441,5          | 81                                            | 0,85 | 92   | 2,3                            | 6,5  | 53,759                         | 381             |
| 280M                    | 55             | 75   | 985            | 539,6          | 100                                           | 0,85 | 92,5 | 2,3                            | 6,5  | 65,923                         | 421             |
| 315S                    | 75             | 100  | 985            | 725,9          | 136                                           | 0,86 | 92,5 | 2,1                            | 6    | 92,901                         | 526             |
| 355L                    | 160            | 220  | 990            | 1550,0         | 272                                           | 0,88 | 94,5 | 2,2                            | 6,3  | 231,52                         | 1600            |

P<sub>n</sub>: Potenza nominale • *Rated Output*

N<sub>n</sub>: Velocità nominale • *RPM*

M<sub>n</sub>: Coppia nominale • *Rated torque*

I<sub>n</sub>: Corrente nominale • *Rated Current*

U<sub>n</sub>: Tensione nominale • *Rated Voltage*

cos : Fattore di potenza • *Power factor*

: Rendimento • *Efficiency*

M<sub>s</sub>/M<sub>n</sub>: Coppia avviamento/Coppia nominale • *Locked rotor Torque/Rated Torque*

I<sub>s</sub>/I<sub>n</sub>: Corrente avviamento/Corrente nominale • *Locked rotor current/Rated amperage*

SERVIZIO • *SERVICE* **S1**

Tolleranze secondo Norme IEC EN 60034-1 • *Tolerance in conformity to IEC EN 60034-1*

**DIMENSIONI D'INGOMBRO**  
*OVERALL DIMENSIONS*

# MOTORI ASINCRONI 2 POLI - Forma costruttiva

## 2 POLES ASYNCHRONOUS MOTORS - Mounting arrangement

# B3

# 50 Hz

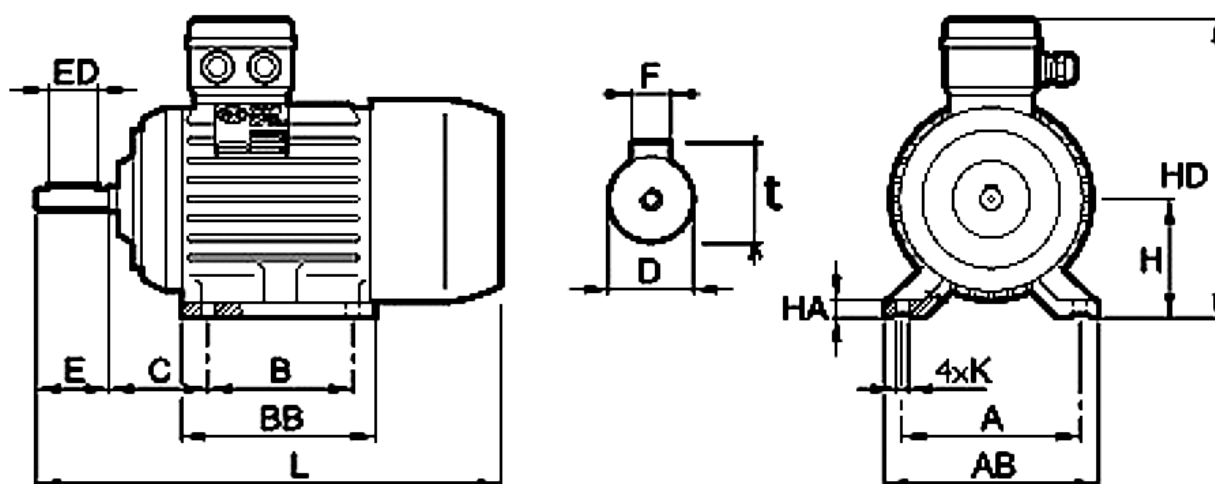
(2900 1/min)

### DIMENSIONI D'INGOMBRO - MONOFASE • OVERALL DIMENSIONS - SINGLE-PHASE

| Grandezza<br>Frame size | A   | B   | C  | D     | E  | F  | H   | HA | HD  | L   | K  | AB  | BB  | t    |        |
|-------------------------|-----|-----|----|-------|----|----|-----|----|-----|-----|----|-----|-----|------|--------|
| mm                      | mm  | mm  | mm | mm    | mm | mm | mm  | mm | mm  | mm  | mm | mm  | mm  | mm   |        |
| <b>71M</b>              | 112 | 90  | 45 | 14 j6 | 30 | 5  | 71  | 10 | 205 | 255 | 7  | 145 | 101 | 16   | PG11   |
| <b>80M</b>              | 125 | 100 | 50 | 19 j6 | 40 | 6  | 80  | 10 | 235 | 295 | 10 | 160 | 122 | 21,5 | PG11   |
| <b>90S</b>              | 140 | 100 | 56 | 24 j6 | 50 | 8  | 90  | 12 | 265 | 335 | 10 | 180 | 125 | 27   | PG13,5 |
| <b>90L</b>              | 140 | 125 | 56 | 24 j6 | 50 | 8  | 90  | 12 | 265 | 360 | 10 | 180 | 150 | 27   | PG13,5 |
| <b>100L</b>             | 160 | 140 | 63 | 28 j6 | 60 | 8  | 100 | 14 | 310 | 400 | 12 | 245 | 173 | 31   | PG13,5 |

### DIMENSIONI D'INGOMBRO - TRIFASE • OVERALL DIMENSIONS - THREE-PHASE

| Grandezza<br>Frame size | A   | B   | C   | D     | E   | F  | H   | HA | HD  | L   | K    | AB  | BB  | t    |        |
|-------------------------|-----|-----|-----|-------|-----|----|-----|----|-----|-----|------|-----|-----|------|--------|
| mm                      | mm  | mm  | mm  | mm    | mm  | mm | mm  | mm | mm  | mm  | mm   | mm  | mm  | mm   |        |
| <b>80M*</b>             | 125 | 100 | 50  | 19 j6 | 40  | 6  | 80  | 10 | 200 | 281 | 10   | 160 | 122 | 21,5 | PG11   |
| <b>90S</b>              | 140 | 100 | 56  | 24 j6 | 50  | 8  | 90  | 12 | 220 | 302 | 10   | 170 | 125 | 27   | PG13,5 |
| <b>90L</b>              | 140 | 125 | 56  | 24 j6 | 50  | 8  | 90  | 12 | 220 | 326 | 10   | 170 | 154 | 27   | PG13,5 |
| <b>100L</b>             | 160 | 140 | 63  | 28 j6 | 60  | 8  | 100 | 14 | 240 | 371 | 12   | 190 | 180 | 31   | PG13,5 |
| <b>112M</b>             | 190 | 140 | 70  | 28 j6 | 60  | 8  | 112 | 15 | 262 | 387 | 12   | 220 | 180 | 31   | PG16   |
| <b>132S</b>             | 216 | 140 | 89  | 38 k6 | 80  | 10 | 132 | 19 | 309 | 461 | 12   | 260 | 180 | 41   | PG16   |
| <b>132M</b>             | 216 | 178 | 89  | 38 k6 | 80  | 10 | 132 | 19 | 309 | 499 | 12   | 260 | 180 | 41   | PG16   |
| <b>160M</b>             | 254 | 210 | 108 | 42 k6 | 110 | 12 | 160 | 18 | 381 | 650 | 14,5 | 318 | 304 | 45   | PG21   |

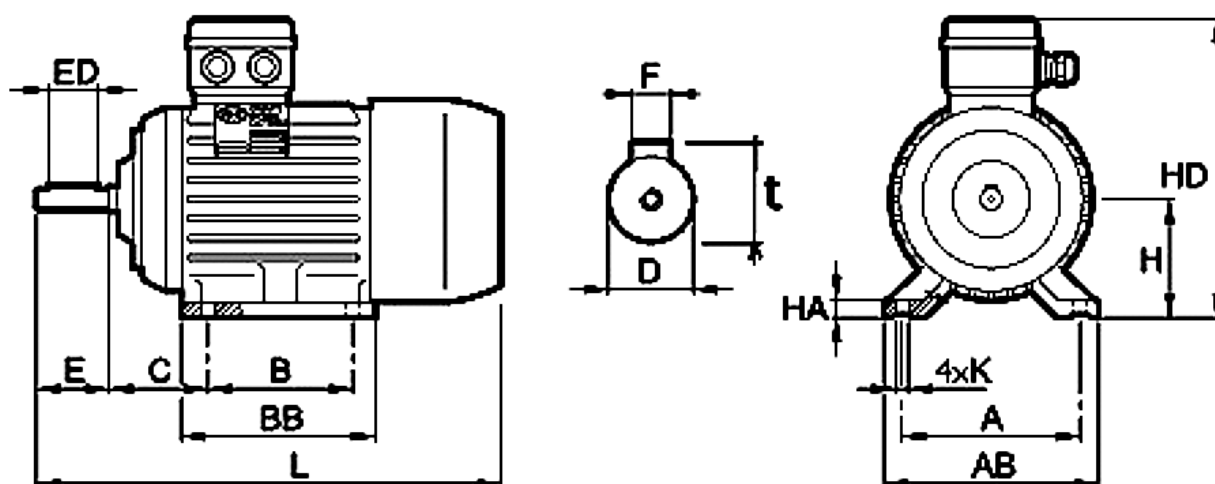


**MOTORI ASINCRONI 4 POLI - Forma costruttiva B3**  
**4 POLES ASYNCHRONOUS MOTORS - Mounting arrangement**
**50 Hz**  
**(1450 1/min)**
**DIMENSIONI D'INGOMBRO - MONOFASE • OVERALL DIMENSIONS - SINGLE-PHASE**

| Grandezza<br>Frame size | A   | B   | C  | D     | E  | F  | H   | HA | HD  | L   | K  | AB  | BB  | t    |        |
|-------------------------|-----|-----|----|-------|----|----|-----|----|-----|-----|----|-----|-----|------|--------|
| mm                      | mm  | mm  | mm | mm    | mm | mm | mm  | mm | mm  | mm  | mm | mm  | mm  | mm   |        |
| <b>71M</b>              | 112 | 90  | 45 | 14 j6 | 30 | 5  | 71  | 10 | 205 | 255 | 7  | 145 | 101 | 16   | PG11   |
| <b>80M</b>              | 125 | 100 | 50 | 19 j6 | 40 | 6  | 80  | 10 | 235 | 295 | 10 | 160 | 122 | 21,5 | PG11   |
| <b>90S</b>              | 140 | 100 | 56 | 24 j6 | 50 | 8  | 90  | 12 | 265 | 335 | 10 | 180 | 125 | 27   | PG13,5 |
| <b>90L</b>              | 140 | 125 | 56 | 24 j6 | 50 | 8  | 90  | 12 | 265 | 360 | 10 | 180 | 150 | 27   | PG13,5 |
| <b>100L</b>             | 160 | 140 | 63 | 28 j6 | 60 | 8  | 100 | 14 | 310 | 400 | 12 | 245 | 173 | 31   | PG13,5 |

**DIMENSIONI D'INGOMBRO - TRIFASE • OVERALL DIMENSIONS - THREE-PHASE**

| Grandezza<br>Frame size | A   | B   | C   | D     | E   | F  | H   | HA | HD  | L   | K    | AB  | BB  | t    |        |
|-------------------------|-----|-----|-----|-------|-----|----|-----|----|-----|-----|------|-----|-----|------|--------|
| mm                      | mm  | mm  | mm  | mm    | mm  | mm | mm  | mm | mm  | mm  | mm   | mm  | mm  | mm   |        |
| <b>80M*</b>             | 125 | 100 | 50  | 19 j6 | 40  | 6  | 80  | 10 | 200 | 281 | 10   | 160 | 122 | 21,5 | PG11   |
| <b>90S</b>              | 140 | 100 | 56  | 24 j6 | 50  | 8  | 90  | 12 | 220 | 302 | 10   | 170 | 125 | 27   | PG13,5 |
| <b>90L</b>              | 140 | 125 | 56  | 24 j6 | 50  | 8  | 90  | 12 | 220 | 326 | 10   | 170 | 154 | 27   | PG13,5 |
| <b>100L</b>             | 160 | 140 | 63  | 28 j6 | 60  | 8  | 100 | 14 | 240 | 371 | 12   | 190 | 180 | 31   | PG13,5 |
| <b>112M</b>             | 190 | 140 | 70  | 28 j6 | 60  | 8  | 112 | 15 | 262 | 387 | 12   | 220 | 180 | 31   | PG16   |
| <b>132S</b>             | 216 | 140 | 89  | 38 k6 | 80  | 10 | 132 | 19 | 309 | 461 | 12   | 260 | 180 | 41   | PG21   |
| <b>132M</b>             | 216 | 178 | 89  | 38 k6 | 80  | 10 | 132 | 19 | 309 | 499 | 12   | 260 | 180 | 41   | PG21   |
| <b>160M</b>             | 254 | 210 | 108 | 42 k6 | 110 | 12 | 160 | 18 | 381 | 650 | 14,5 | 318 | 304 | 45   | PG21   |
| <b>180M</b>             | 279 | 241 | 121 | 48 k6 | 110 | 14 | 180 | 25 | 435 | 715 | 14,5 | 340 | 290 | 51,5 | PG29   |
| <b>180L</b>             | 279 | 279 | 121 | 48 k6 | 110 | 14 | 180 | 25 | 435 | 715 | 14,5 | 340 | 329 | 51,5 | PG29   |
| <b>200L</b>             | 318 | 305 | 133 | 55 m6 | 110 | 16 | 200 | 25 | 457 | 728 | 18,5 | 385 | 370 | 59   | PG29   |



# MOTORI ASINCRONI 4 POLI - Forma costruttiva

## 4 POLES ASYNCHRONOUS MOTORS - Mounting arrangement

# B35

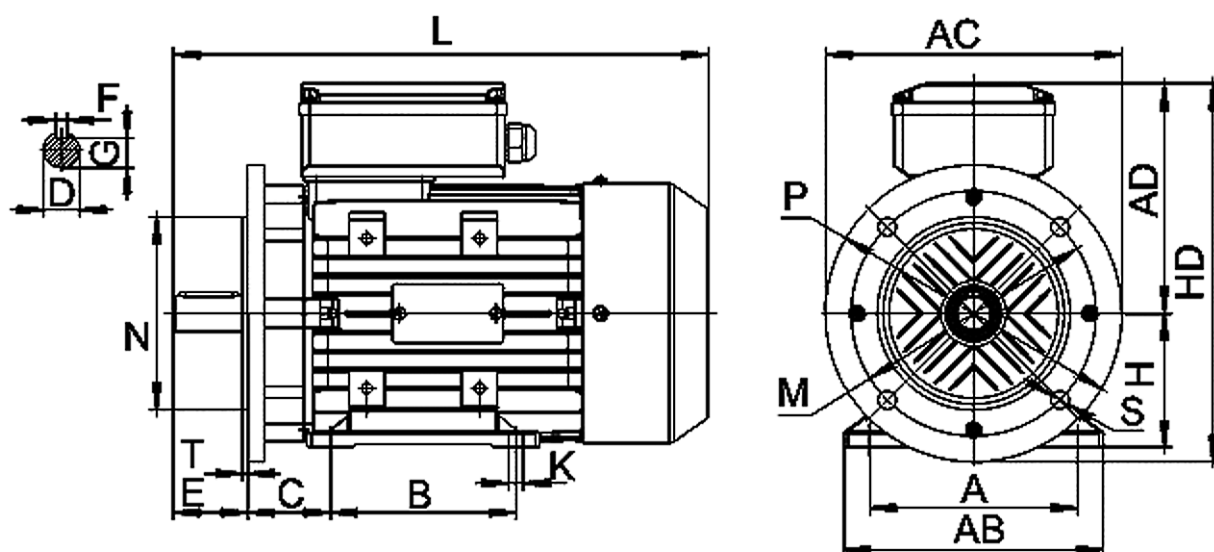
# 50 Hz

(1450 1/min)

### DIMENSIONI D'INGOMBRO IN MM • OVERALL DIMENSIONS IN MM

| Grandezza<br>Frame size | A   | B   | C  | D     | E  | F  | H   | HA | HD  | L   | K  | AB  | AC  | G    |        |         |
|-------------------------|-----|-----|----|-------|----|----|-----|----|-----|-----|----|-----|-----|------|--------|---------|
|                         | mm  | mm  | mm | mm    | mm | mm | mm  | mm | mm  | mm  | mm | mm  | mm  | mm   |        |         |
| <b>71M</b>              | 112 | 90  | 45 | 14 j6 | 30 | 5  | 71  | 10 | 205 | 255 | 7  | 137 | 145 | 11   | PG11   | M5X0,8  |
| <b>80M</b>              | 125 | 100 | 50 | 19 j6 | 40 | 6  | 80  | 10 | 235 | 295 | 9  | 155 | 165 | 15,5 | PG11   | M6X1    |
| <b>90S</b>              | 140 | 100 | 56 | 24 j6 | 50 | 8  | 90  | 12 | 265 | 335 | 10 | 175 | 185 | 20   | PG13,5 | M8X1,25 |
| <b>90L</b>              | 140 | 125 | 56 | 24 j6 | 50 | 8  | 90  | 12 | 265 | 360 | 10 | 175 | 185 | 20   | PG13,5 | M8X1,25 |
| <b>100L</b>             | 160 | 140 | 63 | 28 j6 | 60 | 8  | 100 | 14 | 310 | 400 | 12 | 198 | 240 | 24   | PG13,5 | M10X1,5 |

| Grandezza<br>Frame size | M   | N   | P   | T   | AD  |
|-------------------------|-----|-----|-----|-----|-----|
|                         | mm  | mm  | mm  | mm  | mm  |
| <b>71M</b>              | 130 | 110 | 160 | 3,5 | 125 |
| <b>80M</b>              | 165 | 130 | 200 | 3,5 | 135 |
| <b>90S</b>              | 165 | 130 | 200 | 3,5 | 145 |
| <b>90L</b>              | 165 | 130 | 200 | 3,5 | 145 |
| <b>100L</b>             | 215 | 180 | 250 | 4   | 180 |



### MOTORI ASINCRONI TRIFASE 6 POLI - Forma costruttiva 6 POLES THREE-PHASE ASYNCHRONOUS MOTORS - Mounting arrangement

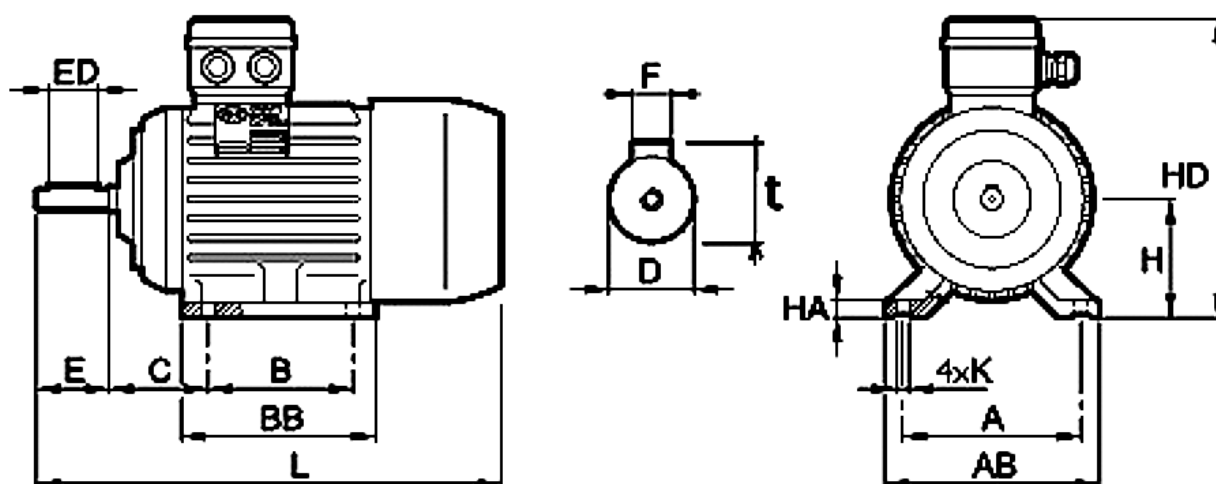
# B3

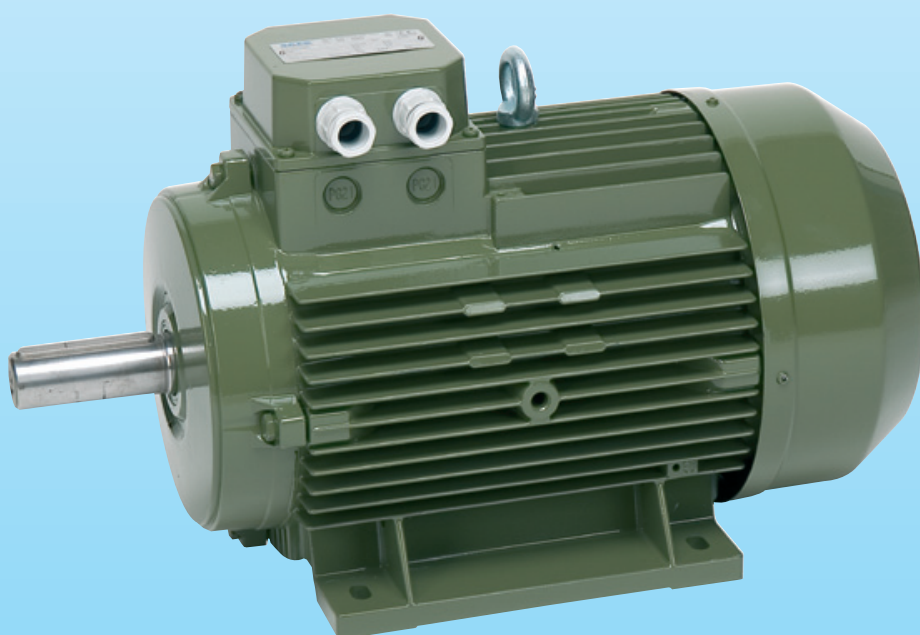
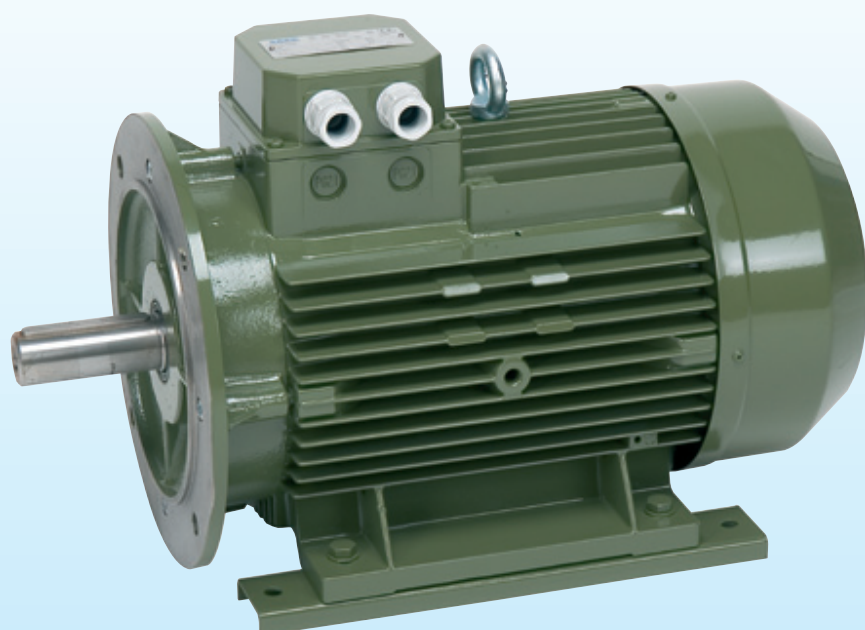
## 50 Hz

(980 1/min)

#### DIMENSIONI D'INGOMBRO IN MM • OVERALL DIMENSIONS IN MM

| Grandezza<br>Frame size | A   | B   | C   | D      | E   | F  | H   | HA | HD   | L    | K    | AB  | BB  | t    |        |          |
|-------------------------|-----|-----|-----|--------|-----|----|-----|----|------|------|------|-----|-----|------|--------|----------|
| mm                      | mm  | mm  | mm  | mm     | mm  | mm | mm  | mm | mm   | mm   | mm   | mm  | mm  | mm   |        |          |
| 71M                     | 112 | 90  | 45  | 14 j6  | 30  | 5  | 71  | 10 | 186  | 238  | 7    | 137 | 101 | 16   | PG11   | M5X0,8   |
| 80M                     | 125 | 100 | 50  | 19 j6  | 40  | 6  | 80  | 10 | 206  | 274  | 9    | 155 | 122 | 21,5 | PG11   | M6X1     |
| 90S                     | 140 | 100 | 56  | 24 j6  | 50  | 8  | 90  | 12 | 232  | 297  | 10   | 175 | 125 | 27   | PG13,5 | M8X1,25  |
| 90L                     | 140 | 125 | 56  | 24 j6  | 50  | 8  | 90  | 12 | 232  | 322  | 10   | 175 | 150 | 27   | PG13,5 | M8X1,25  |
| 100L                    | 160 | 140 | 63  | 28 j6  | 60  | 8  | 100 | 14 | 255  | 361  | 12   | 198 | 173 | 31   | PG13,5 | M10X1,5  |
| 112M                    | 190 | 140 | 70  | 28 j6  | 60  | 8  | 112 | 15 | 267  | 361  | 12   | 224 | 178 | 31   | PG13,5 | M10X1,5  |
| 132S                    | 216 | 140 | 89  | 38 k6  | 80  | 10 | 132 | 19 | 332  | 470  | 13   | 258 | 225 | 41   | PG21   | M12X1,75 |
| 132M                    | 216 | 178 | 89  | 38 k6  | 80  | 10 | 132 | 19 | 332  | 496  | 13   | 258 | 225 | 41   | PG21   | M12X1,75 |
| 160M                    | 254 | 210 | 108 | 42 k6  | 110 | 12 | 160 | 18 | 425  | 610  | 14,5 | 320 | 250 | 37   | PG29   | M16X2    |
| 160L                    | 254 | 254 | 108 | 42 k6  | 110 | 12 | 160 | 20 | 425  | 655  | 14,5 | 320 | 332 | 37   | PG29   | M16X2    |
| 180L                    | 279 | 279 | 121 | 48 k6  | 110 | 14 | 180 | 22 | 460  | 720  | 14,5 | 350 | 320 | 42,5 | PG29   | M16X2    |
| 200L                    | 318 | 305 | 133 | 55 m6  | 110 | 16 | 200 | 24 | 515  | 760  | 18,5 | 395 | 365 | 49   | PG36   | M20X2,5  |
| 250M                    | 406 | 349 | 168 | 65 m6  | 140 | 18 | 250 | 32 | 620  | 925  | 24   | 495 | 410 | 58   | PG42   | M20X2,5  |
| 280S                    | 457 | 368 | 190 | 75 m6  | 140 | 20 | 280 | 35 | 685  | 975  | 24   | 550 | 480 | 67,5 | PG42   | M20X2,5  |
| 280M                    | 457 | 419 | 190 | 75 m6  | 140 | 20 | 280 | 35 | 685  | 1015 | 24   | 550 | 480 | 67,5 | PG42   | M20X2,5  |
| 315S                    | 508 | 406 | 216 | 80 m6  | 170 | 22 | 315 | 38 | 820  | 1190 | 28   | 630 | 480 | 71   | PG48   | M20X2,5  |
| 355L                    | 610 | 630 | 254 | 100 M6 | 210 | 28 | 355 | 42 | 1000 | 1570 | 28   | 735 | 545 | 86   | PG48   | M24X3    |





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