

Type : 3EL160M2C-PC-BA-C34

RE: 894755

Date : 03.01.2022

|                                    |                 |                            |                 |
|------------------------------------|-----------------|----------------------------|-----------------|
| Power [kW]                         | : 15.0          | Efficiency Class           | : IE3           |
| Input Voltage [V]                  | : 400           | Duty Cycle                 | : S1            |
| Connection Type [ $\Delta$ / Y]    | : $\Delta$      | Service Factor             | : 1.20          |
| Frequency [Hz]                     | : 50            | Frame Size                 | : 160M          |
| Pole Number                        | : 2             | Weight [kg]                | : 86.0          |
| Nominal Speed [rpm]                | : 2950          | Insulation Class           | : F [155°C]     |
| Nominal Current [A]                | : 26.5          | Temperature Rise           | : B [80°K]      |
| Nominal Moment [Nm]                | : 48.6          | Protection Class           | : IP55          |
| Nominal Efficiency [ $\eta$ ]      | : 91.9          | Vibration Severity Grade   | : A             |
| Power Factor [ $\cos\phi$ ]        | : 0.89          | Method of Cooling          | : IC411         |
| Locked Rotor Current [ $I_a/I_n$ ] | : 8.9           | Direction of Rotation      | : Bidirectional |
| Locked Rotor Torque [Ma/Mn]        | : 3.1           | Balance                    | : Half Key      |
| Breakdown Torque [Mk/Mn]           | : 4.2           | Motor Protection           | : PTC           |
| Motor Color                        | : RAL 7031      | Altitude Above Sea Level   | : 1000m         |
| Ambient Temperature                | : -15°C / +40°C | Sound Pressure Level [dBA] | : 69            |

### ELECTRICAL DATA

| $\Delta$ / Y | U [V] | f [Hz] | P [kW] | n [rpm] | I [A] | $\eta$ [%] | $\cos\phi$ |
|--------------|-------|--------|--------|---------|-------|------------|------------|
| $\Delta$     | 400   | 50     | 15.0   | 2950    | 26.5  | 91.9       | 0.89       |
| Y            | 690   | 50     | 15.0   | 2950    | 15.3  | 91.9       | 0.89       |
| $\Delta$     | 460   | 60     | 17.4   | 3540    | 26.4  | 92.0       | 0.90       |

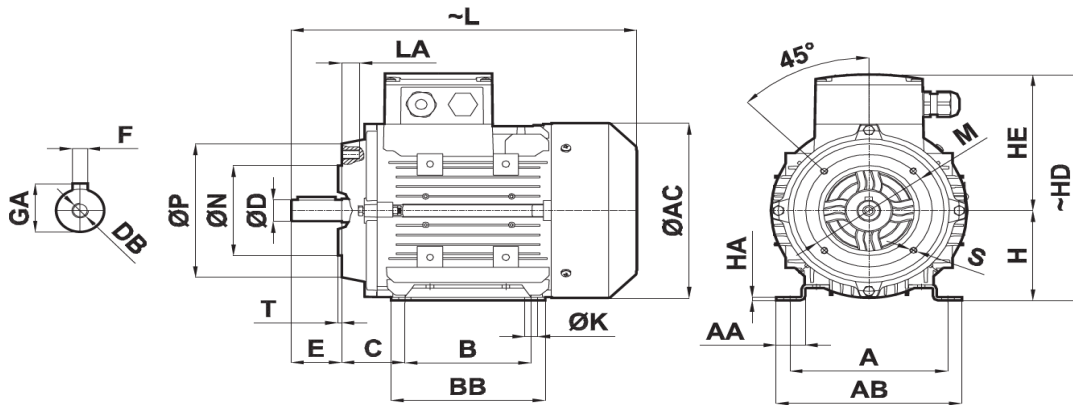
### MECHANICAL DATA

|                                       |                   |
|---------------------------------------|-------------------|
| Moment of Inertia [kgm <sup>2</sup> ] | : 0.03913         |
| Bearing DS / NS                       | : 6309ZZ / 6209ZZ |
| Frame Material                        | : Aluminum        |
| Flange Type / Material                | : B34 / Aluminum  |
| Cooling Fan Material                  | : Plastic         |
| End Shield Material                   | : Aluminum        |

### TERMINAL BOX

|                          |             |
|--------------------------|-------------|
| Terminal Box Material    | : Aluminum  |
| Terminal Box Position    | : Top       |
| Terminal Box Cable Entry | : 2xM32x1.5 |
| Terminal Box Blind Cap   | : --        |
| Contact Screw Thread     | : M6        |

### MECHANICAL DIMENSIONS



| FLANGE TYPE | D  | N   | P   | E   | T | LA | L   | AC  | S   | M   | H   | HE  | HD  | F  | GA | DB  | C   | ØK   | B   | BB  | HA | AA | A   | AB  |
|-------------|----|-----|-----|-----|---|----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|------|-----|-----|----|----|-----|-----|
| B34         | 42 | 180 | 250 | 110 | 4 | 23 | 605 | 316 | M12 | 215 | 160 | 224 | 384 | 12 | 45 | M16 | 108 | 14.5 | 210 | 323 | 15 | 65 | 254 | 295 |

Manufactured and tested in accordance with IEC 60034

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\*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

\*MECALINE has right to change all the data without prior notice.