

**Type** : 3EL090S2B-PC-A0-000**Date** : 03.01.2022

|                                    |                 |                            |                 |
|------------------------------------|-----------------|----------------------------|-----------------|
| Power [kW]                         | : 1.50          | Efficiency Class           | : IE3           |
| Input Voltage [V]                  | : 400           | Duty Cycle                 | : S1            |
| Connection Type [ $\Delta$ / Y]    | : Y             | Service Factor             | : 1.20          |
| Frequency [Hz]                     | : 50            | Frame Size                 | : 090S          |
| Pole Number                        | : 2             | Weight [kg]                | : 15.6          |
| Nominal Speed [rpm]                | : 2900          | Insulation Class           | : F [155°C]     |
| Nominal Current [A]                | : 2.97          | Temperature Rise           | : B [80°K]      |
| Nominal Moment [Nm]                | : 4.94          | Protection Class           | : IP55          |
| Nominal Efficiency [ $\eta$ ]      | : 84.8          | Vibration Severity Grade   | : A             |
| Power Factor [ $\cos\phi$ ]        | : 0.86          | Method of Cooling          | : IC411         |
| Locked Rotor Current [ $I_a/I_n$ ] | : 7.6           | Direction of Rotation      | : Bidirectional |
| Locked Rotor Torque [Ma/Mn]        | : 3.1           | Balance                    | : Half Key      |
| Breakdown Torque [Mk/Mn]           | : 3.9           | Motor Protection           | : --            |
| Motor Color                        | : RAL 7031      | Altitude Above Sea Level   | : 1000m         |
| Ambient Temperature                | : -15°C / +40°C | Sound Pressure Level [dBA] | : 59            |

**ELECTRICAL DATA**

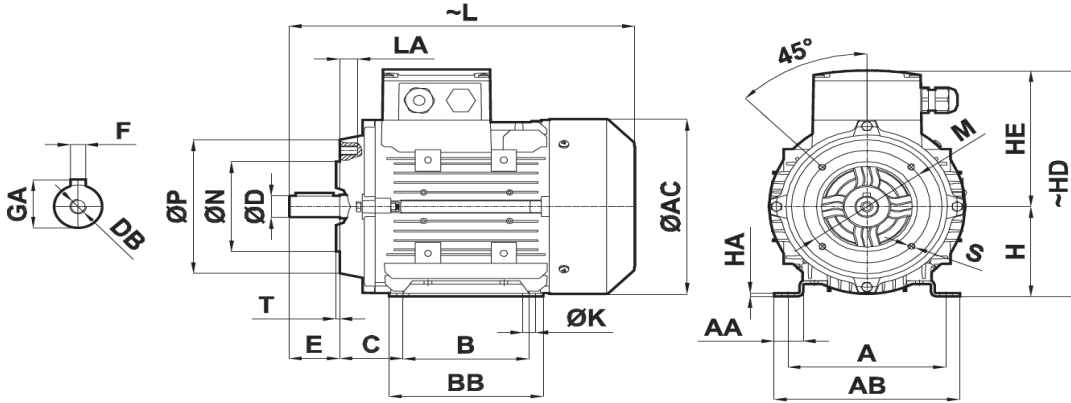
| $\Delta$ / Y | U [V] | f [Hz] | P [kW] | n [rpm] | I [A] | $\eta$ [%] | $\cos\phi$ |
|--------------|-------|--------|--------|---------|-------|------------|------------|
| $\Delta$     | 230   | 50     | 1.50   | 2900    | 5.14  | 84.8       | 0.86       |
| Y            | 400   | 50     | 1.50   | 2900    | 2.97  | 84.8       | 0.86       |
| Y            | 460   | 60     | 1.74   | 3490    | 2.93  | 85.7       | 0.87       |

**MECHANICAL DATA**

|                                       |                   |
|---------------------------------------|-------------------|
| Moment of Inertia [kgm <sup>2</sup> ] | : 0.00178         |
| Bearing DS / NS                       | : 6205ZZ / 6205ZZ |
| 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 | : M20x1.5  |
| Terminal Box Blind Cap   | : M16x1.5  |
| Contact Screw Thread     | : M4       |

**MECHANICAL DIMENSIONS**

| FLANGE TYPE | D  | N  | P     | E  | T | LA | L   | AC  | S  | M   | H  | HE  | HD  | F | GA | DB | C  | $\phi K$ | B   | BB  | HA | AA | A   | AB  |
|-------------|----|----|-------|----|---|----|-----|-----|----|-----|----|-----|-----|---|----|----|----|----------|-----|-----|----|----|-----|-----|
| B34         | 24 | 95 | 136.5 | 50 | 3 | 15 | 325 | 176 | M8 | 115 | 90 | 132 | 222 | 8 | 27 | M8 | 56 | 10       | 100 | 151 | 4  | 27 | 140 | 167 |

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.

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