



# BEHNCKE

## Three Phase Squirrel Cage Induction Motor

Motor type Q3HFA100L4D40



### Electrical Data

| RATED VALUES |       |    |       |          |        |            | STARTING VALUES    |                    | BREAKDOWN    | EFFICIENCY |     |     | EFFICIENCY CLASS |
|--------------|-------|----|-------|----------|--------|------------|--------------------|--------------------|--------------|------------|-----|-----|------------------|
| VOLTAGE      | POWER |    | SPEED | CURRENT  | TORQUE | cos $\phi$ | CURRENT            | TORQUE             | TORQUE       | %          |     |     | IEC 60034-30-1   |
| V            | kW    | Hz | rpm   | A        | Nm     | 4/4        | $I_A / I_N$<br>Y D | $M_A / M_N$<br>Y D | Mk/ Mn<br>Nm | 4/4        | 3/4 | 2/4 | IE               |
| 230/400      | 3     | 50 | 1446  | 10,7/6,2 | 19,85  | 0,81       | 8,4 -              | 3,3 -              | 3,8          | IE3-87,7%  | 88  | 87  | IE3              |
| 265/460      | 3,45  | 60 | 1735  | 10,4/6,0 | 18,99  | 0,82       | 8,1 -              | 3,1 -              | 3,7          | -          | -   | -   |                  |
|              |       |    |       |          |        |            |                    |                    |              |            |     |     |                  |
|              |       |    |       |          |        |            |                    |                    |              |            |     |     |                  |

### Mechanical Data

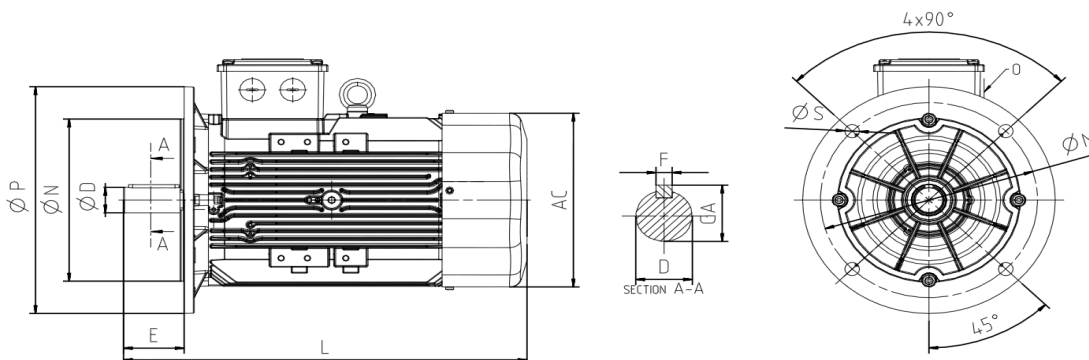
|                            |                       |                          |              |
|----------------------------|-----------------------|--------------------------|--------------|
| Bearing DE                 | 6306-ZZ               | Color                    | RAL 7031     |
| Bearing NDE                | 6205-ZZ               | Motor protection         | No           |
| Lubricants                 | Shell Gadus S2 V100Q2 | Method of cooling        | IC 411       |
| Condensation drain hole    | No                    | Terminal box position    | Top          |
| External earthing terminal | Yes                   | Material of terminal box | Aluminium    |
| Vibration class            | A                     | Terminal plate thread    | M5           |
| Insulation Class           | F                     | Cable gland              | 1xM25        |
| Duty type                  | S1                    | Clamping range           | 13-18 mm     |
| Direction of rotation      | Clockwise             | Mounting type            | IM 3001 (B5) |
| Housing material           | Aluminium             |                          |              |
| Type of balancing          | Half Key              |                          |              |

### Environmental Data

### Others

|                          |               |   |             |
|--------------------------|---------------|---|-------------|
| Ambient Temperature      | -20 / + 40 °C | Type of protection                      | IP 55       |
| Altitude above sea level | 1000 m        | Sound Pressure Level 50/60Hz dBA        | 56          |
|                          |               | Moment of Inertia (kg.mm <sup>2</sup> ) | 0,0105898   |
|                          |               | Standard                                | IEC 60034-1 |
|                          |               | Weighth (Kg)                            | 31,171      |

### Dimensions



| Main Dimensions |     |   | Foot Mounted Motors |   |    |   |    | Shaft |    |    |   | Flange Mounted Motors |     |     |   |
|-----------------|-----|---|---------------------|---|----|---|----|-------|----|----|---|-----------------------|-----|-----|---|
| AC              | L   | B | A                   | H | HD | K | C  | D     | E  | GA | F | P                     | N   | M   | R |
| 191,5           | 400 | - | -                   | - | -  | - | 63 | 28    | 60 | 31 | 8 | 250                   | 180 | 215 | - |