



WAT Motor  
Sanayi ve Ticaret A.Ş.



## Three Phase Squirrel Cage Induction Motor

Motor Type: Q3HFC90L2E

### 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        | $I_A / I_N$     | D | $M_A / M_N$ | Mk/ Mn<br>Nm | 4/4        | 3/4  | 2/4  | IE               |
| 230/400      | 3     | 50 | 2890  | 10,25/5,92 | 9,9    | 0,85       | 9,6             |   | 3,3         | 4,4          | 87,1       | 87,2 | 86,8 | IE3              |
| 265/460      | 3     | 60 | 3526  | 9,2/5,3    | 8,1    | 0,81       | 9,16            |   | 3,67        | 5,82         | 88,5       | 88,5 | 87,9 | IE3              |
|              |       |    |       |            |        |            |                 |   |             |              |            |      |      |                  |
|              |       |    |       |            |        |            |                 |   |             |              |            |      |      |                  |

### Mechanical Data

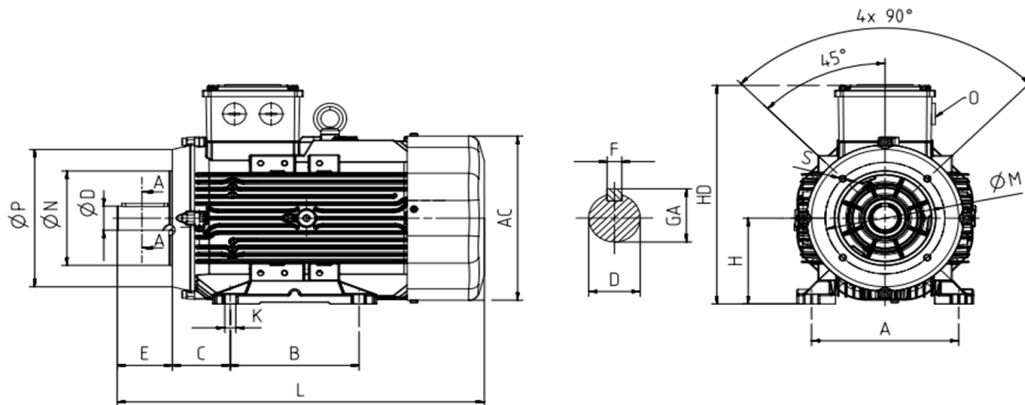
|                            |                       |                          |                 |
|----------------------------|-----------------------|--------------------------|-----------------|
| Bearing DE                 | 6305-ZZ               | Color                    | Optional        |
| Bearing NDE                | 6205-ZZ               | Motor protection         | Optional        |
| 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 3601 (B14-A) |
| Housing material           | Aluminum              |                          |                 |
| Type of balancing          | Half Key              |                          |                 |

### Enviromental Data

### Others

|                          |               |                               |             |
|--------------------------|---------------|-------------------------------|-------------|
| Ambient temperature      | -20 / + 40 °C | Type of protection            | IP56        |
| Altitude above sea level | 1000 m        | Sound pressure level 50/60Hz  | dBA 66      |
|                          |               | Moment of inertia ( $kgm^2$ ) | 0,00318     |
|                          |               | Standard                      | IEC 60034-1 |
|                          |               | Weight (kg)                   | 18,2        |

### 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   | S  |
| 172             | 344 |                     |   |   |    |   |   | 24    | 50 | 27 | 8 | 140                   | 95 | 115 | M8 |