



WAT Motor  
Sanayi ve Ticaret A.Ş.



## Three Phase Squirrel Cage Induction Motor

Motor Type: Q4HFA90L4DE

### 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 | $M_A / M_N$ | D | Mk/ Mn<br>Nm | 4/4        | 3/4  | 2/4  | IE               |
| 230/400      | 1,5   | 50 | 1460  | 6,1/3,5 | 9,8    | 0,71       | 10,8            |   | 5,4         |   | 5,9          | 88,2       | 86,7 | 83,4 | IE4              |
| 265/460      | 1,5   | 60 | 1763  | 5,6/3,2 | 8,1    | 0,68       | 9,0             |   | 3,8         |   | 4,9          | 88,5       | 87   | 83,7 | IE4              |
|              |       |    |       |         |        |            |                 |   |             |   |              |            |      |      |                  |
|              |       |    |       |         |        |            |                 |   |             |   |              |            |      |      |                  |

### Mechanical Data

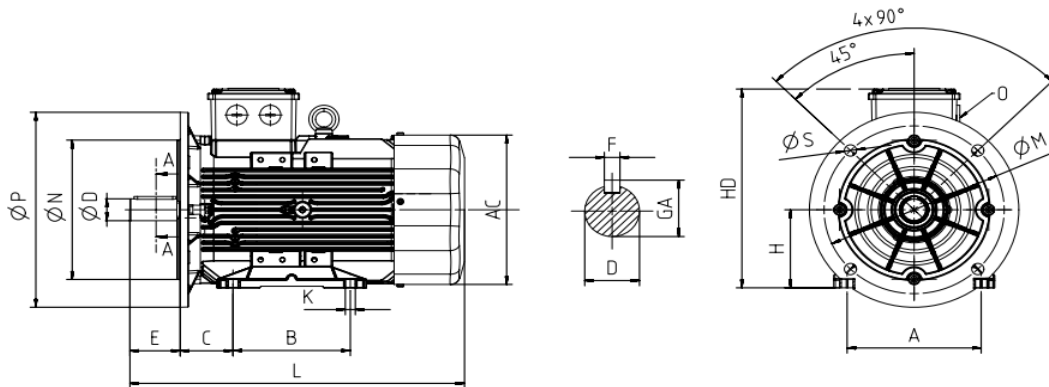
|                            |                       |                          |              |
|----------------------------|-----------------------|--------------------------|--------------|
| Bearing DE                 | 6305-ZZ               | Color                    | Optional     |
| Bearing 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 3001 (B5) |
| 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 54      |
|                          |               | Moment of inertia (kgm <sup>2</sup> ) | 0,00691     |
|                          |               | Standard                              | IEC 60034-1 |
|                          |               | Weight (kg)                           | 24,5        |

### 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             | 379 |                     |   |   |    |   |   | 24    | 50 | 27 | 8 | 200                   | 130 | 165 | 12 |