



WAT Motor  
Sanayi ve Ticaret A.Ş.



## Three Phase Squirrel Cage Induction Motor

Motor Type: Q1HFA90L2-4A

### 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 <sub>A</sub> / I <sub>N</sub> | YY  | M <sub>A</sub> / M <sub>N</sub> | Mk / Mn |           | 4/4        | 3/4 | 2/4 | IE               |
| 380          | 1,4   | 50 | 1413  | 3,2     | 9,5    | 0,83       | 5,1                             |     | 1,7                             | 2,5     |           |            |     |     |                  |
| 380          | 1,8   | 50 | 2825  | 4,3     | 6,1    | 0,85       |                                 | 3,9 |                                 | 3,1     | 3,8       |            |     |     |                  |
|              |       |    |       |         |        |            |                                 |     |                                 |         |           |            |     |     |                  |
|              |       |    |       |         |        |            |                                 |     |                                 |         |           |            |     |     |                  |

### Mechanical Data

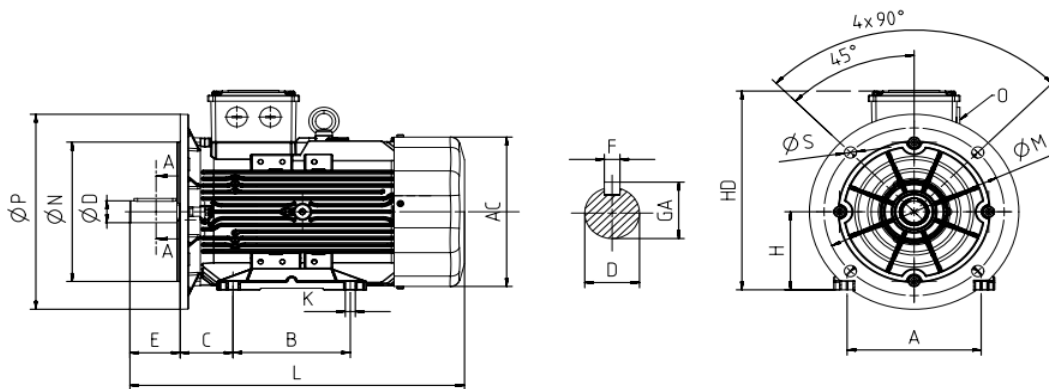
|                            |                       |                          |              |
|----------------------------|-----------------------|--------------------------|--------------|
| Bearing DE                 | 6305-ZZ               | Color                    | Optional     |
| Bearing 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                    | IP55        |
| Altitude above sea level | 1000 m        | Sound pressure level 50/60Hz          | dBA 66      |
|                          |               | Moment of inertia (kgm <sup>2</sup> ) | 0,00322     |
|                          |               | Standard                              | IEC 60034-1 |
|                          |               | Weight (kg)                           | 16,8        |

### 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 | 200                   | 130 | 165 | 12 |