



WAT Motor  
Sanayi ve Ticaret A.Ş.



## Three Phase Squirrel Cage Induction Motor

Motor Type: Q1HFA160M2-4B

### 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               |
| 400          | 9,5   | 50 | 1479  | 61,8    | 61,3   | 0,81       | 7,5                             |     | 2,3                             | 2,8     |           |            |     |     |                  |
| 400          | 11    | 50 | 2952  | 35,6    | 35,6   | 0,87       |                                 | 8,4 | 2,9                             | 3,8     |           |            |     |     |                  |
|              |       |    |       |         |        |            |                                 |     |                                 |         |           |            |     |     |                  |
|              |       |    |       |         |        |            |                                 |     |                                 |         |           |            |     |     |                  |

### Mechanical Data

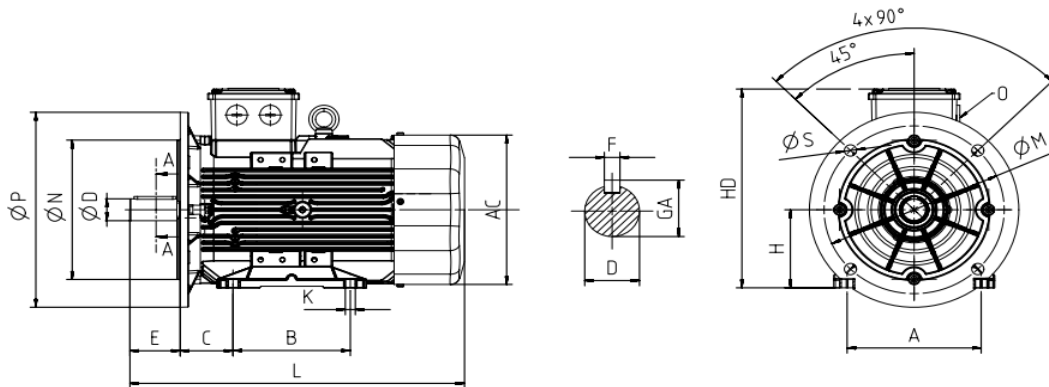
|                            |                       |                          |              |
|----------------------------|-----------------------|--------------------------|--------------|
| Bearing DE                 | 6309-ZZ               | Color                    | Optional     |
| Bearing NDE                | 6209-ZZ               | Motor protection         | Optional     |
| Lubricants                 | Shell Gadus S5 V220-2 | 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    | M6           |
| Insulation class           | F                     | Cable gland              | 1xM32        |
| Duty type                  | S1                    | Clamping range           | 18-25 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 75      |
|                          |               | Moment of inertia (kgm <sup>2</sup> ) | 0,05547     |
|                          |               | Standard                              | IEC 60034-1 |
|                          |               | Weight (kg)                           | 87,5        |

### 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    |
| 305             | 591 |                     |   |   |    |   |   | 42    | 110 | 45 | 12 | 350                   | 250 | 300 | 18,5 |