



WAT Motor  
Sanayi ve Ticaret A.Ş.



## Three Phase Squirrel Cage Induction Motor

Motor Type: Q3HFA180L2D

### 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               |
| 400/690      | 37    | 50 | 2962  | 61,4/35,5 | 119,3  | 0,93       |                 | 10,1 | 2,9         | 4,4          | 93,7       | 94,4 | 94,0 | IE3              |
| 460/795      | 37    | 60 | 3564  | 53,5/30,9 | 99,1   | 0,93       |                 | 9,64 | 3,22        | 5,82         | 93         | 93,6 | 93,1 | IE3              |
|              |       |    |       |           |        |            |                 |      |             |              |            |      |      |                  |
|              |       |    |       |           |        |            |                 |      |             |              |            |      |      |                  |

### Mechanical Data

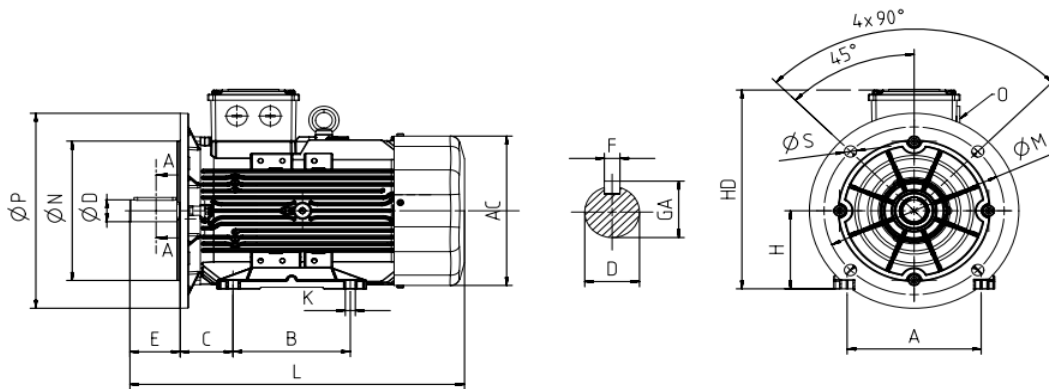
|                            |                       |                          |              |
|----------------------------|-----------------------|--------------------------|--------------|
| Bearing DE                 | 6310-ZZ               | Color                    | Optional     |
| Bearing NDE                | 6310-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    | M8           |
| Insulation class           | F                     | Cable gland              | 1xM40        |
| Duty type                  | S1                    | Clamping range           | 22-32 mm     |
| Direction of rotation      | Clockwise             | Mounting type            | IM 3001 (B5) |
| Housing material           | Aluminium             |                          |              |
| 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 76      |
|                          |               | Moment of inertia (kgm <sup>2</sup> ) | 0,11212     |
|                          |               | Standard                              | IEC 60034-1 |
|                          |               | Weight (kg)                           | 160,0       |

### 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    |
| 349             | 696 |                     |   |   |    |   |   | 48    | 110 | 51,5 | 14 | 350                   | 250 | 300 | 18,5 |