



WAT Motor  
Sanayi ve Ticaret A.Ş.



### Three Phase Squirrel Cage Induction Motor

Motor Type: Q3H180L4C

#### 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               |
| 400/690      | 30    | 50 | 1483  | 59,0/34,1 | 193,2  | 0,79       |                 | 8,8  |             | 3,1  | 4,2          | 93,6       | 93,5 | 92,4 | IE3              |
| 460/795      | 30    | 60 | 1783  | 50,4/29,1 | 160,7  | 0,80       |                 | 8,40 |             | 3,44 | 5,55         | 94,1       | 93,7 | 92,8 | IE3              |
|              |       |    |       |           |        |            |                 |      |             |      |              |            |      |      |                  |
|              |       |    |       |           |        |            |                 |      |             |      |              |            |      |      |                  |

#### Mechanical Data

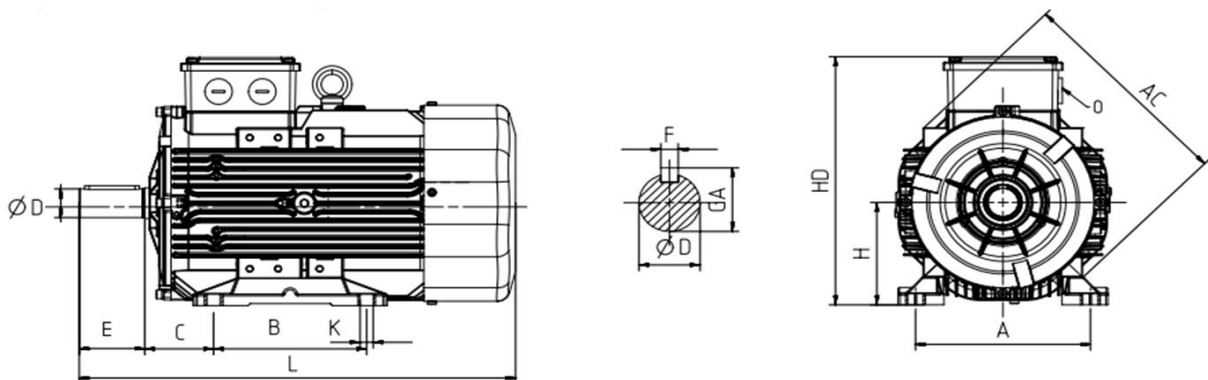
|                            |                       |                          |              |
|----------------------------|-----------------------|--------------------------|--------------|
| Bearing DE                 | 6310-ZZ               | Color                    | Optional     |
| Bearing 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 1001 (B3) |
| 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          | 68 dBA      |
|                          |               | Moment of inertia (kgm <sup>2</sup> ) | 0,22166     |
|                          |               | Standard                              | IEC 60034-1 |
|                          |               | Weight (kg)                           | 176,0       |

#### 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 | 241-279             | 279 | 180 | 437 | 14,5 | 121 | 48    | 110 | 51,5 | 14 |                       |   |   |   |