



WAT Motor  
Sanayi ve Ticaret A.Ş.



## Three Phase Squirrel Cage Induction Motor

Motor Type: Q1HPA180M4-8B

### Electrical Data

| RATED VALUES |       |    |       |         |        | STARTING VALUES |                                 |     |                                 | BREAKDOWN | EFFICIENCY                      |  |     | EFFICIENCY CLASS |                |    |
|--------------|-------|----|-------|---------|--------|-----------------|---------------------------------|-----|---------------------------------|-----------|---------------------------------|--|-----|------------------|----------------|----|
| VOLTAGE      | POWER |    | SPEED | CURRENT | TORQUE | cos ϕ           | 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> | YY        | M <sub>k</sub> / M <sub>N</sub> |  | 4/4 | 3/4              | 2/4            | IE |
| 380          | 11    | 50 | 737   | 35,5    | 142,5  | 0,79            | 4,1                             |     | 1,4                             |           | 2,3                             |  |     |                  |                |    |
| 380          | 15    | 50 | 1488  | 31,4    | 96,3   | 0,55            |                                 | 6,4 |                                 | 1,6       | 2,9                             |  |     |                  |                |    |
|              |       |    |       |         |        |                 |                                 |     |                                 |           |                                 |  |     |                  |                |    |
|              |       |    |       |         |        |                 |                                 |     |                                 |           |                                 |  |     |                  |                |    |

### Mechanical Data

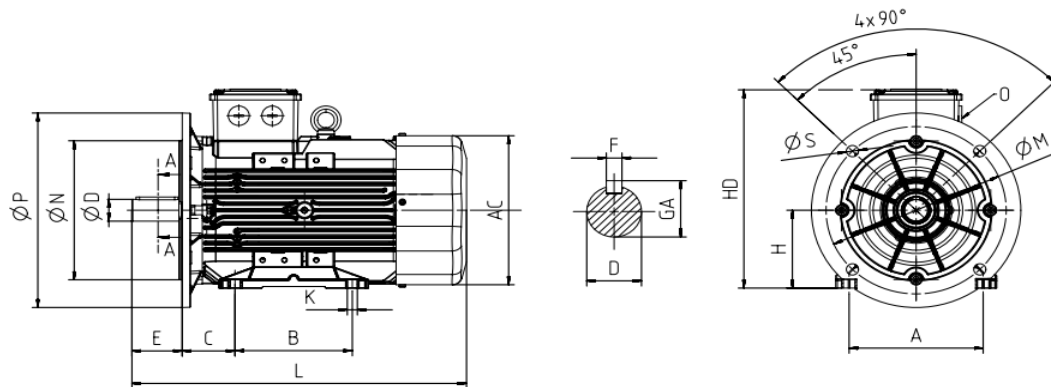
|                            |                       |                          |               |
|----------------------------|-----------------------|--------------------------|---------------|
| Bearing DE                 | 6310-ZZ               | Color                    | Optional      |
| Bearing 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 2001 (B35) |
| 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 76      |
|                          |               | Moment of inertia ( $kgm^2$ ) | 0,16500     |
|                          |               | Standard                      | IEC 60034-1 |
|                          |               | Weight (kg)                   | 152,0       |

### 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 | 350                   | 250 | 300 | 18,5 |

B34b