



WAT Motor  
Sanayi ve Ticaret A.Ş.



## Three Phase Squirrel Cage Induction Motor

Motor Type: Q1HPB80M4-8B

### 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        | $I_A / I_N$     | $I_Y$ | $M_A / M_N$ | $M_k / M_n$ | 4/4        | 3/4 | 2/4 | IE               |
| 400          | 0,18  | 50 | 720   | 1,0     | 2,4    | 0,50       | 2,9             |       | 1,5         | 2,8         |            |     |     |                  |
| 400          | 0,33  | 50 | 1438  | 0,8     | 2,2    | 0,83       |                 | 5,4   | 1,8         | 1,4         |            |     |     |                  |
|              |       |    |       |         |        |            |                 |       |             |             |            |     |     |                  |
|              |       |    |       |         |        |            |                 |       |             |             |            |     |     |                  |

### Mechanical Data

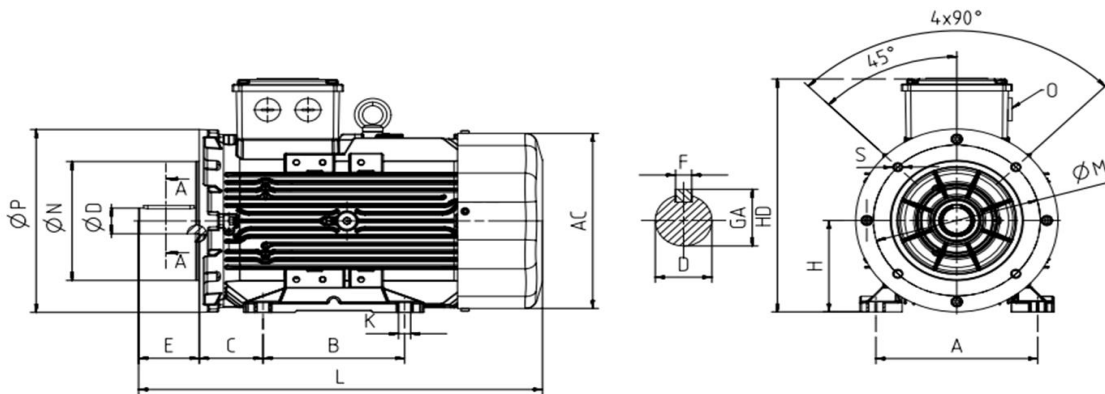
|                            |                       |                          |                 |
|----------------------------|-----------------------|--------------------------|-----------------|
| Bearing DE                 | 6204-ZZ               | Color                    | Optional        |
| Bearing NDE                | 6204-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    | M4              |
| Insulation class           | F                     | Cable gland              | 1xM20           |
| Duty type                  | S1                    | Clamping range           | 10-14 mm        |
| Direction of rotation      | Clockwise             | Mounting type            | IM 2101 (B34-B) |
| 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         | 64 dBA      |
|                          |               | Moment of inertia ( $\text{kgm}^2$ ) | 0,00220     |
|                          |               | Standard                             | IEC 60034-1 |
|                          |               | Weight (kg)                          |             |

### 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  |
| 158             | 268 | 100                 | 125 | 80 | 216 | 10 | 50 | 19    | 40 | 21,5 | 6 | 160                   | 110 | 130 | M8 |