



## Three Phase Squirrel Cage Induction Motor

Motor type TE Q3HPA 200L2D

### Electrical Data

| RATED VALUES |       |    |       |           |        |            | STARTING VALUES |       |        |      | BREAKDOWN   | EFFICIENCY |      |     | Eff. CLASS     |
|--------------|-------|----|-------|-----------|--------|------------|-----------------|-------|--------|------|-------------|------------|------|-----|----------------|
| VOLTAGE      | POWER |    | SPEED | CURRENT   | TORQUE | Cos $\phi$ | CURRENT         |       | TORQUE |      | TORQUE      | %          |      |     | IEC 60034-30-1 |
| V            | kW    | Hz | rpm   | A         | Nm     | 4/4        | Y               | D     | Y      | D    | Mk/Mn<br>Nm | 4/4        | 3/4  | 2/4 | IE             |
| 400/690      | 37    | 50 | 2960  | 61,9/35,7 | 119,4  | 0,92       | 3,3             | 9,924 | 1      | 2,88 | 4,4         | IE3-93,7%  | 94,4 | 94  | IE3            |
| 460/795      | 42,6  | 60 | 3560  | 60,4/34,9 | 114,3  | 0,92       | 3,2             | 9,626 | 0,9    | 2,74 | 4,3         | -          | -    | -   |                |
|              |       |    |       |           |        |            |                 |       |        |      |             |            |      |     |                |
|              |       |    |       |           |        |            |                 |       |        |      |             |            |      |     |                |
|              |       |    |       |           |        |            |                 |       |        |      |             |            |      |     |                |

### Mechanical Data

|                            |                       |                          |               |
|----------------------------|-----------------------|--------------------------|---------------|
| Bearing DE                 | 6312-ZZ               | Color                    | RAL 7031      |
| Bearing NDE                | 6310-ZZ               | Motor protection         | PTC           |
| Lubricants                 | Shell Gadus S5 V220-2 | Method of cooling        | IC 411 (TEFC) |
| 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              | 1xM50         |
| Duty type                  | S1                    | Clamping range           | 30-38 mm      |
| Direction of rotation      | Clockwise             | Mounting type            | IM B35 (PA)   |
| Housing material           | Aluminium             |                          |               |
| Type of balancing          | Half Key              |                          |               |

### Environmental Data

|                          |            |
|--------------------------|------------|
| Ambient Temperature      | -20/+40 °C |
| Altitude above sea level | 1000 m     |

### Others

|                                         |             |
|-----------------------------------------|-------------|
| Type of protection                      | IP55        |
| Sound Pressure Level 50/60Hz dBA        | 78          |
| Moment of Inertia (kg.mm <sup>2</sup> ) | 0,113833    |
| Standard                                | IEC 60034-1 |
| Weigth (Kg)                             | 166         |

#### \*Lubrication:

Closed type (ZZ) roller bearings are being used.

These types of roller bearings do not require maintenance since they are lubricated with the type of lubricant specified by the manufacturer.

Roller bearings should be replaced after 20,000 hours of operation (approx. 2-5 years of use) due to the specified operation temperature, vibration level and shaft loads.