

SINGLE-PHASE MOTOR FBS 90 L 4

AB09L2200045

General data

| | |
|--------------------------|----------------------------------|
| Type of motor | 1~ |
| Type designation | FBS |
| Frame size | 90 |
| Mounting | B5 |
| Frame execution | L |
| Frame material | Aluminium |
| Insulationclass | F/B |
| Terminal box location | top DE |
| Terminal box orientation | cable gland to the back side NDE |
| Weight (kg) | 16 |
| Rotation Direction | Clockwise |
| Vibration level | A |
| Balancing method | half key |
| cooling type | IC411 |
| Executed acc. to | IEC 60034-1 |
| noise level | IEC 60034-9 |

Mechanical data

| | |
|---------------------------------------|--------|
| allow. Radial load (Xmax) | 700 |
| allow. Axial load | 675 |
| allow. Axial load (V1) | 635 |
| Moment of inertia (kgm ²) | 0,0148 |

Motor properties

| | |
|-------------------------------------|-------------|
| Color | RAL7030 |
| Paint surface | shiny |
| Protection class | IP55 |
| Cable gland size (cable connection) | |
| Cable gland type | Standard |
| Shaft end (mm) | 24 x 50 |
| Shaft material | C45 |
| Specification NDE | Plastic fan |
| Flange | 200 |

Influential factors

| | |
|--------------------------|---------------|
| Duty | S1 |
| Ambient temperature (°C) | -20 up to +40 |
| Height of location (m) | 1000 |

Motor properties Single-phase

| | |
|---------------|--------------|
| Capacitor | BK |
| O.C. Capacity | 45 myF/450 V |

Electrical specification

| | |
|---------------------------------|--------|
| Power 1 50Hz (kW) | 1.5 |
| Frequency (Hz) | 50 |
| Voltage 50Hz (V) | 230 |
| Voltage tolerance | +/-10% |
| Poles | 4 |
| Efficiency 100% 50Hz (%) | 73,0 |
| Power factor | 0,95 |
| Starting current factor (Ia/In) | 4,6 |
| Starting torque factor (Ma/Mn) | 0,3 |
| Breakdown torque (Mk/Mn) | 0,3 |
| Rated current 50Hz (A) | 9,40 |

Mechanical data

| | |
|--------------------------|---------------|
| Torque (Nm) | 10,23 |
| Rotation speed (1/min) | 1400 |
| Bearing DE | 6205.ZZ.C3 |
| Bearing NDE | 6204.ZZ.C3 |
| Mounting of bearing DE | loose bearing |
| Mounting of bearing NDE | loose bearing |
| Bearing lifetime (h) | 20000 |
| allow. Radial load (X/2) | 787 |
| allow. Radial load (X0) | 875 |

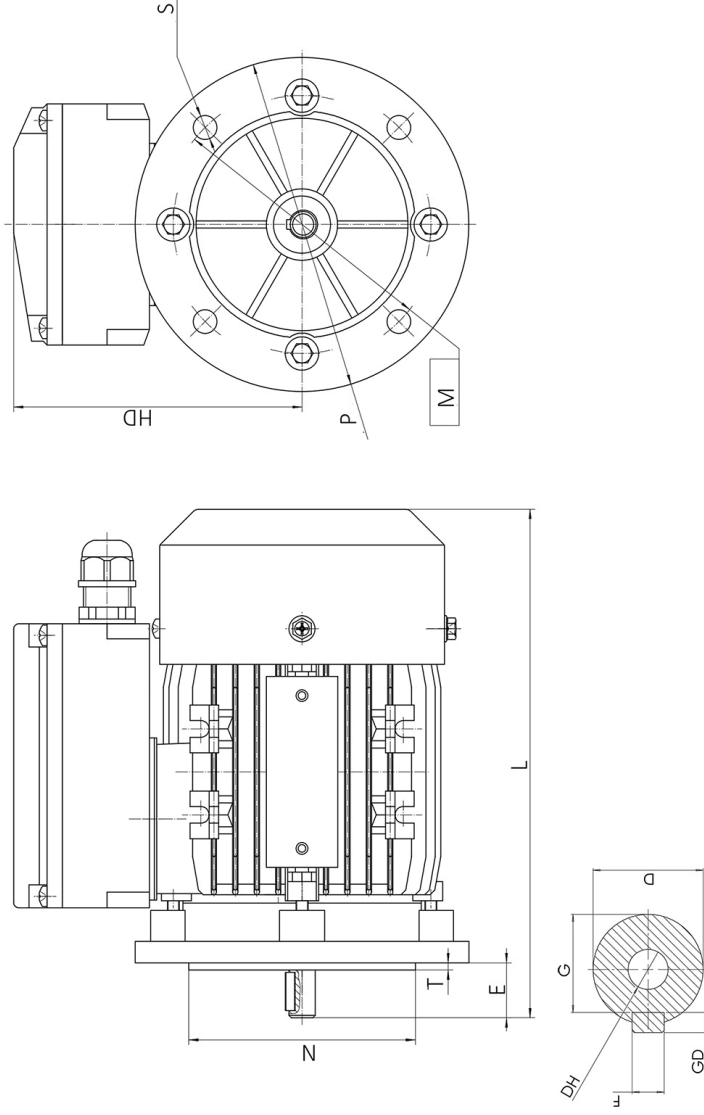
Dimension drawings

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Die Zeichnung dient lediglich als Skizze um Maße darzustellen. Das gelieferte Produkt kann von dieser Skizze abweichen. Die detaillierte Beschreibung des Produkts befindet sich im Datenabschnitt (Seite 1).
 The drawing serves only as a sketch to show dimensions. The delivered product may differ from this sketch. The detailed description of the product can be found in the Data section (page 1).



| D | E | H | HD | L | M | N | P | S | T | F | G | DH |
|----|----|----|-----|-----|-----|-----|-----|----|-----|---|----|-------|
| 24 | 50 | 90 | 155 | 360 | 165 | 130 | 200 | 12 | 3.5 | 8 | 20 | M8x19 |