

## SINGLE-PHASE MOTOR ACM 90 L 4 /HE

IE2FG09L4000

### General data

|                          |                                  |
|--------------------------|----------------------------------|
| Type of motor            | 1~                               |
| Type designation         | ACM                              |
| Frame size               | 90                               |
| Mounting                 | B3                               |
| 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 (X/2)            | 775 |
| allow. Radial load (X0)             | 875 |
| allow. Radial load (Xmax)           | 675 |
| allow. Axial load B3,B5,B35,B14,B34 | 675 |
| allow. Axial load V1,V3,V19,V18     | 635 |

### Motor properties

|                                     |             |
|-------------------------------------|-------------|
| Color                               | RAL7030     |
| Paint surface                       | shiny       |
| Protection class                    | IP55        |
| Cable gland size (cable connection) | PG11        |
| Cable gland type                    | Standard    |
| Shaft end                           | 24 x 50     |
| Shaft material                      | C45         |
| Specification NDE                   | Plastic fan |

### 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    | 40 myF/450 V     |
| run-up switching | electronic relay |

### Electrical specification

|                                                           |       |
|-----------------------------------------------------------|-------|
| Power 1 50Hz (kW)                                         | 1.5   |
| Frequency (Hz)                                            | 50    |
| Voltage 50Hz (V)                                          | 230   |
| Voltage/Frequency tolerance (not valid for range voltage) | +/-5% |
| Poles                                                     | 4     |
| Efficiency 100% 50Hz (%)                                  | 82,8  |
| Power factor                                              | 0,95  |
| Starting current factor                                   | 5,4   |
| Starting torque factor                                    | 0,3   |
| Tilting moment factor                                     | 1,7   |
| Rated current 50Hz (A)                                    | 8,29  |
| Eff.Cl.50Hz                                               | IE2   |

### Mechanical data

|                         |               |
|-------------------------|---------------|
| Torque (Nm)             | 10,09         |
| Rotation speed (1/min)  | 1420          |
| Bearing DE              |               |
| Bearing NDE             |               |
| Mounting of bearing DE  | loose bearing |
| Mounting of bearing NDE | loose bearing |
| Bearing lifetime        | 20000         |

Dimension drawings

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 **ac motore**