

## THREE-PHASE-ASYNCHRONOUS-MOTOR ACA 56 B 2 /HE

IE2AC05B2000

### General data

|                          |                               |
|--------------------------|-------------------------------|
| Type of motor            | 3~                            |
| Type designation         | ACA                           |
| Frame size               | 56                            |
| Mounting                 | B3                            |
| Frame material           | Aluminium                     |
| Insulationclass          | F/B                           |
| Terminal box location    | top DE                        |
| Terminal box orientation | cable gland to the right side |
| Weight (kg)              | 4.4                           |
| Rotation Direction       | right /left                   |
| Vibration level          | A                             |
| Balancing method         | half key                      |
| cooling type             | IC411                         |
| Executed acc. to         | IEC 60034-1                   |
| noise level              | IEC 60034-9                   |

### Influential factors

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

### Electrical specification

|                                                           |           |
|-----------------------------------------------------------|-----------|
| Power 1 50Hz (kW)                                         | 0.12      |
| Power 1 60Hz (kW)                                         | 0.12      |
| Frequency (Hz)                                            | 50/60     |
| Voltage 50Hz (V)                                          | 230/400   |
| Voltage 60Hz (V)                                          | 265/460   |
| Voltage/Frequency tolerance (not valid for range voltage) | +/-10%    |
| Connection                                                | Δ/Y       |
| Poles                                                     | 2         |
| Efficiency 100% 50Hz (%)                                  | 53,6      |
| Efficiency 75% 50Hz (%)                                   | 53,6      |
| Efficiency 50% 50Hz (%)                                   | 52,5      |
| Efficiency 100% 60Hz (%)                                  | 59,5      |
| Efficiency 75% 60Hz (%)                                   | 53,6      |
| Efficiency 50% 60Hz (%)                                   | 52,5      |
| Power factor                                              | 0,72      |
| Starting current factor                                   | 5,2       |
| Starting torque factor                                    | 2,1       |
| Tilting moment factor                                     | 2,2       |
| Rated current 50Hz (A)                                    | 0,78/0,45 |
| Rated current 60Hz (A)                                    | 0,61/0,35 |
| Eff.Cl.50Hz                                               | IE2       |
| Eff.Cl.60Hz                                               | IE2       |

### Mechanical data

|                                     |               |
|-------------------------------------|---------------|
| Torque (Nm)                         | 0,42/0,35     |
| Rotation speed (1/min)              | 2720/3260     |
| Bearing DE                          | 6201.ZZ.C3    |
| Bearing NDE                         | 6201.ZZ.C3    |
| Mounting of bearing DE              | loose bearing |
| Mounting of bearing NDE             | loose bearing |
| Bearing lifetime                    | 20000         |
| allow. Radial load (X/2)            | 275           |
| allow. Radial load (X0)             | 300           |
| allow. Radial load (Xmax)           | 250           |
| allow. Axial load B3,B5,B35,B14,B34 | 250           |
| allow. Axial load V1,V3,V19,V18     | 235           |

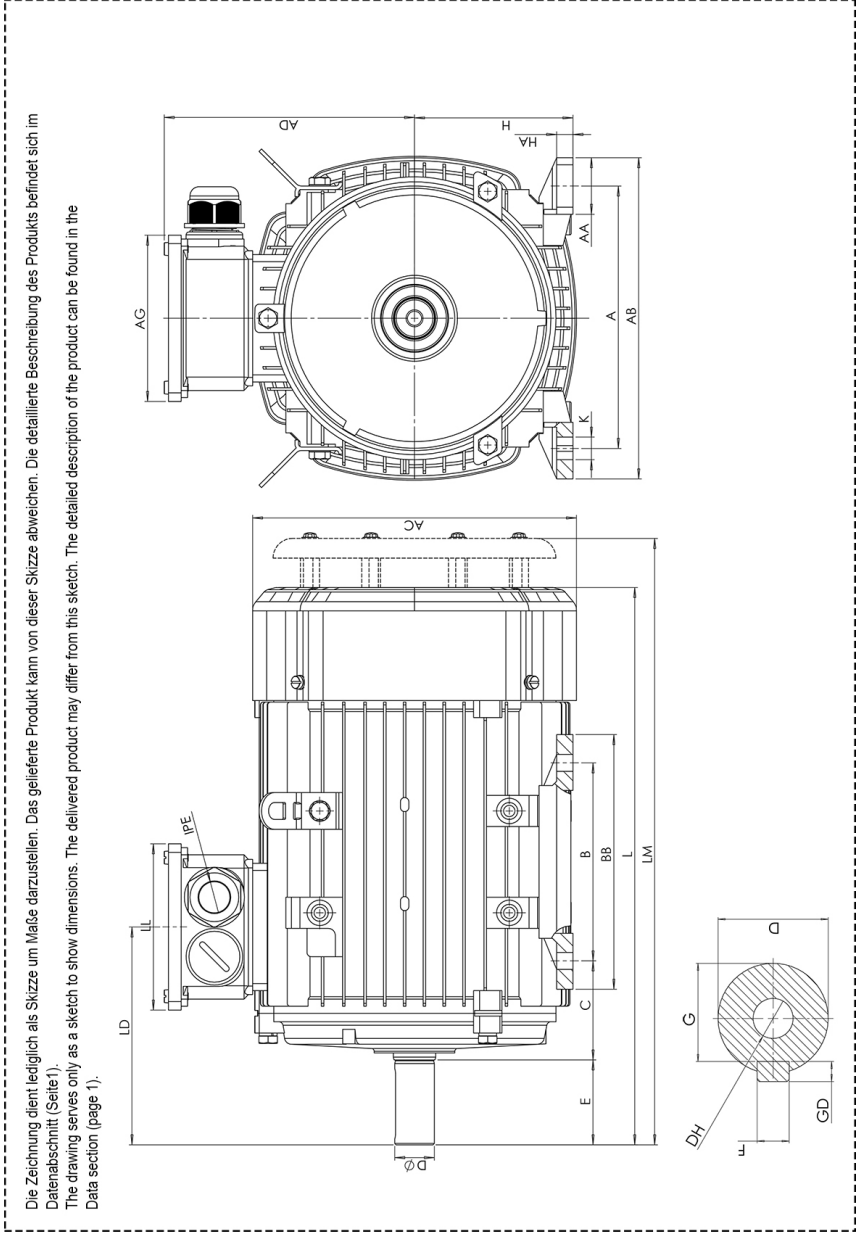
### Motor properties

|                                     |                        |
|-------------------------------------|------------------------|
| Color                               | RAL7030                |
| Paint surface                       | shiny                  |
| Protection class                    | IP55                   |
| Cable gland size (cable connection) | 1xM20x1,5 1xblind plug |
| Cable gland type                    | Standard               |
| Shaft end                           | 9 x 20                 |
| Shaft material                      | C45                    |
| Specification NDE                   | Plastic fan            |

# Dimension drawings

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| A  | AA | AB  | AC  | AD | AG | B  | BB | C  | D | E  | H  | HA | K       | L   | LM  | LD | LL | F | G   | DH    | EB | ED | GD |
|----|----|-----|-----|----|----|----|----|----|---|----|----|----|---------|-----|-----|----|----|---|-----|-------|----|----|----|
| 90 | 23 | 111 | 113 | 96 | 86 | 71 | 88 | 36 | 9 | 20 | 56 | 7  | 5,8x6,3 | 199 | 229 | 83 | 86 | 3 | 7,2 | M4x12 | 16 | 2  | 3  |