

## THREE-PHASE-ASYNCHRONOUS-MOTOR ACA 100 LA 2/4

AC10L2400000

### General data

|                          |                               |
|--------------------------|-------------------------------|
| Type of motor            | 3~ multi speed                |
| Type designation         | ACA                           |
| Frame size               | 100                           |
| Mounting                 | B3                            |
| Frame execution          | L                             |
| Frame material           | Aluminium                     |
| Insulationclass          | F/B                           |
| Terminal box location    | top DE                        |
| Terminal box orientation | cable gland to the right side |
| Weight (kg)              | 36                            |
| 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                   |

### General data double-speed motors

|                   |      |
|-------------------|------|
| Power 2 50Hz (kW) | 0.65 |
| Power 2 60Hz (kW) | 0.78 |

### Influential factors

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

### Electrical specification

|                                                           |           |
|-----------------------------------------------------------|-----------|
| Power 1 50Hz (kW)                                         | 2.5       |
| Frequency (Hz)                                            | 50        |
| Voltage 50Hz (V)                                          | 380-420   |
| Voltage/Frequency tolerance (not valid for range voltage) | +/-10%    |
| Connection                                                | YY/Y      |
| Poles                                                     | 2/4       |
| Efficiency 100% 50Hz (%)                                  | 81/69     |
| Power factor                                              | 0,89/0,70 |
| Starting current factor                                   | 7,5/5,5   |
| Starting torque factor                                    | 1,8/1,2   |
| Tilting moment factor                                     | 1,8       |
| Rated current 50Hz (A)                                    | 5,01/1,94 |

### Mechanical data

|                        |                     |
|------------------------|---------------------|
| Torque (Nm)            | 8,41/4,43           |
| Rotation speed (1/min) | 2840/1400/3408/1680 |

### Mechanical data

|                                     |               |
|-------------------------------------|---------------|
| Bearing DE                          | 6206.ZZ.C3    |
| Bearing NDE                         | 6206.ZZ.C3    |
| Mounting of bearing DE              | loose bearing |
| Mounting of bearing NDE             | loose bearing |
| Bearing lifetime                    | 20000         |
| allow. Radial load (X/2)            | 1125          |
| allow. Radial load (X0)             | 1250          |
| allow. Radial load (Xmax)           | 1000          |
| allow. Axial load B3,B5,B35,B14,B34 | 950           |
| allow. Axial load V1,V3,V19,V18     | 905           |

### Motor properties

|                                     |                        |
|-------------------------------------|------------------------|
| Color                               | RAL7030                |
| Paint surface                       | shiny                  |
| Protection class                    | IP55                   |
| Cable gland size (cable connection) | 1xM25x1,5 1xblind plug |
| Cable gland size (option)           | M16x1,5                |
| Cable gland type                    | Standard               |
| Shaft end                           | 28 x 60                |
| Shaft material                      | C45                    |
| Specification NDE                   | Plastic fan            |

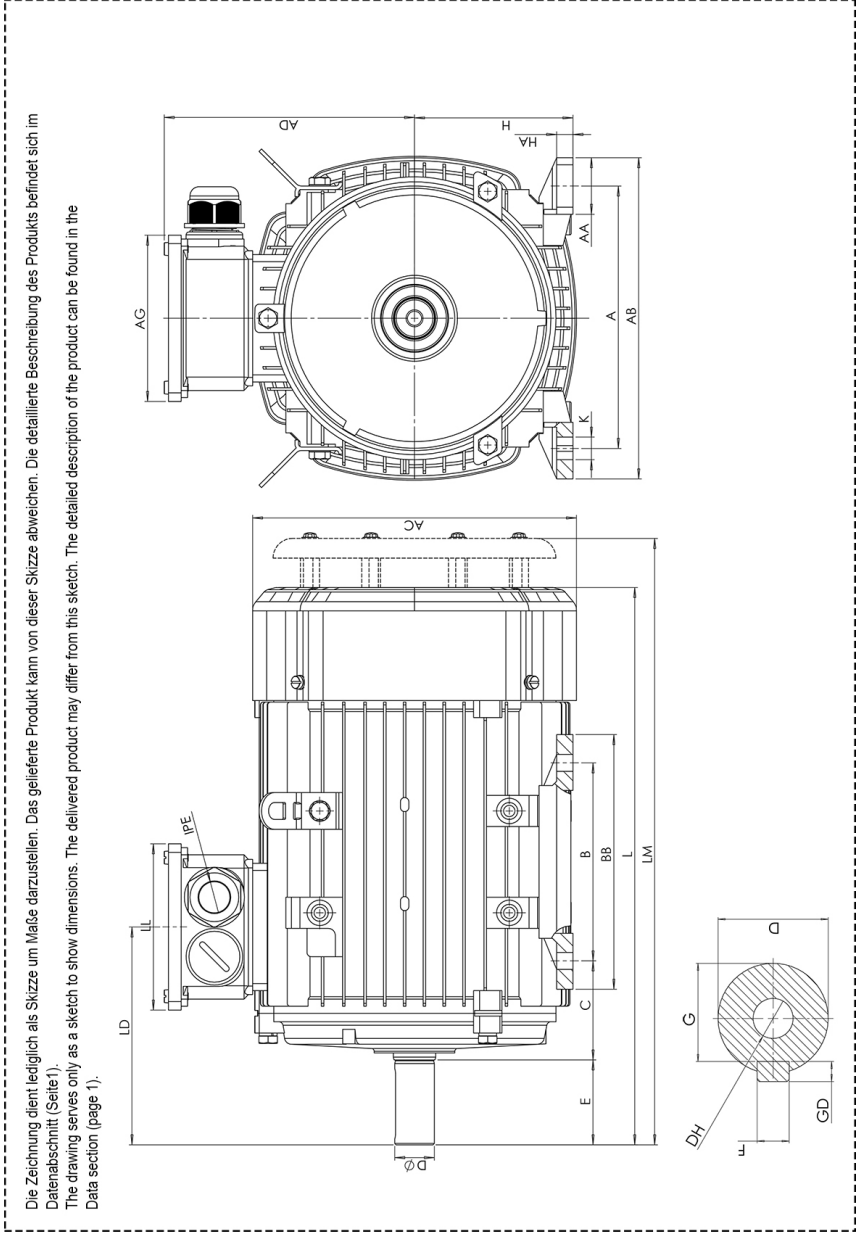
### Additional option

|                    |           |
|--------------------|-----------|
| Protection winding | PTC 150°C |
|--------------------|-----------|

# Dimension drawings

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| A   | AA | AB  | AC  | AD  | AG  | B   | BB  | C  | D  | E  | H   | HA | K     | L   | LM  | LL  | F | G  | DH     | EB | ED | GD |
|-----|----|-----|-----|-----|-----|-----|-----|----|----|----|-----|----|-------|-----|-----|-----|---|----|--------|----|----|----|
| 160 | 40 | 196 | 195 | 151 | 109 | 140 | 172 | 63 | 28 | 60 | 100 | 11 | 12x16 | 374 | 404 | 109 | 8 | 24 | M10x22 | 50 | 5  | 7  |