

## THREE-PHASE-ASYNCHRONOUS-MOTOR FCA 100 LC 2 /PHE

IE3AC10LC200

### General data

|                          |                               |
|--------------------------|-------------------------------|
| Type of motor            | 3~ progressiv                 |
| Type designation         | FCA                           |
| Frame size               | 100                           |
| Mounting                 | B5                            |
| 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)              | 23.7                          |
| 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)                                         | 4         |
| Power 1 60Hz (kW)                                         | 4         |
| Frequency (Hz)                                            | 50/60     |
| Voltage 50Hz (V)                                          | 400/690   |
| Voltage 60Hz (V)                                          | 460/795   |
| Voltage/Frequency tolerance (not valid for range voltage) | +/-10%    |
| Connection                                                | Δ/Y       |
| Poles                                                     | 2         |
| Efficiency 100% 50Hz (%)                                  | 88,1      |
| Efficiency 75% 50Hz (%)                                   | 88,1      |
| Efficiency 50% 50Hz (%)                                   | 86,3      |
| Efficiency 100% 60Hz (%)                                  | 89,5      |
| Power factor                                              | 0,88      |
| Starting current factor                                   | 8,3       |
| Starting torque factor                                    | 2,3       |
| Tilting moment factor                                     | 2,3       |
| Rated current 50Hz (A)                                    | 7,45/4,32 |
| Rated current 60Hz (A)                                    | 6,38/3,70 |
| Eff.Cl.50Hz                                               | IE3       |
| Eff.Cl.60Hz                                               | IE3       |

### Mechanical data

|                                     |               |
|-------------------------------------|---------------|
| Torque (Nm)                         | 13,20/11      |
| Rotation speed (1/min)              | 2895/3474     |
| 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)            | 887           |
| allow. Radial load (X0)             | 1000          |
| allow. Radial load (Xmax)           | 775           |
| allow. Axial load B3,B5,B35,B14,B34 | 700           |
| allow. Axial load V1,V3,V19,V18     | 655           |
| Moment of inertia                   | 0,0045        |

### 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            |
| Flange                              | 250                    |

### Additional operating points

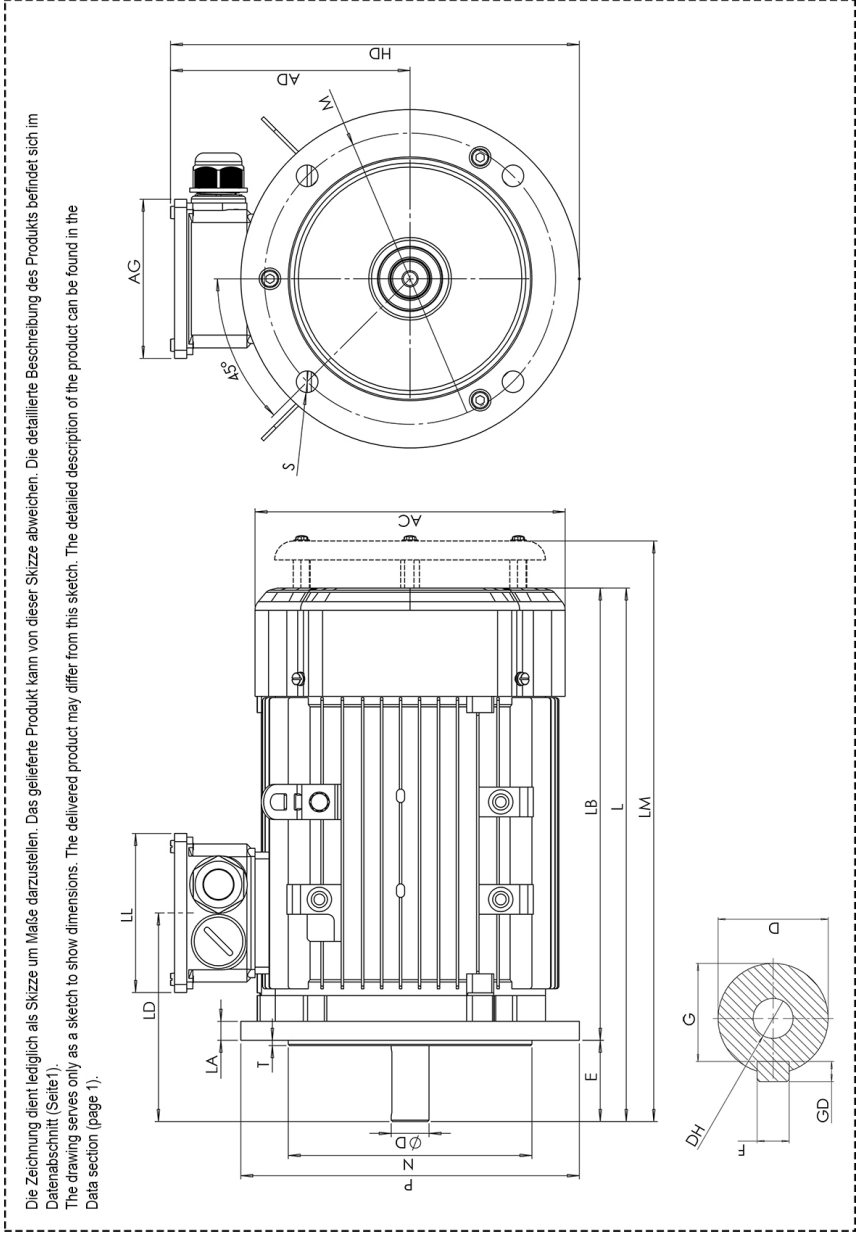
|                                    |         |
|------------------------------------|---------|
| Voltage operating point 2          | 460/795 |
| Power operating point 2 (kW)       | 4.8     |
| Connection operating point 2       | Δ/Y     |
| Frequency operating point 2        | 60      |
| Efficiency class operating point 2 | IE2     |

### Additional option

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

# Dimension drawings

## Three-Phase-Asynchronous- Motor FCA 100 LC 2 /PHE IE3AC10LC200



| AC  | AD    | AG  | D  | E  | HD  | L   | LM  | LA | LB  | LD  | LL  | M   | N   | P   | S      | T | F | G  | DH     | EB | ED | GD |
|-----|-------|-----|----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|--------|---|---|----|--------|----|----|----|
| 198 | 159,5 | 109 | 28 | 60 | 281 | 393 | 423 | 13 | 333 | 144 | 109 | 215 | 180 | 250 | 4x14,5 | 4 | 8 | 24 | M10x22 | 50 | 5  | 7  |