

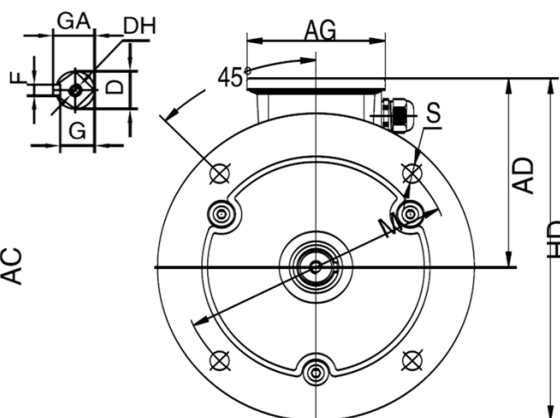
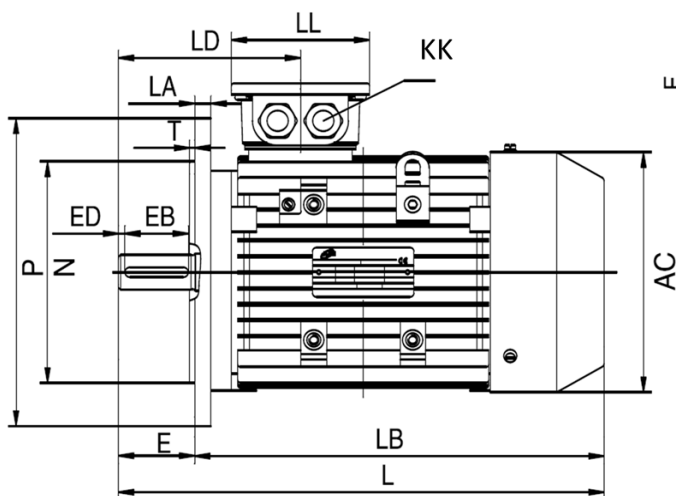


## Motortype

**FCA 112M - 4 / HE**

## High Efficiency

IM B5 / IM 3001



| TYP   | AC  | AD  | AG    | D  | DH     | E  | EB | ED | F | G  | GA | HD  | KK        | L   | LA | LB  | LD  | LL    | M   | N   | P   | S    | T |
|-------|-----|-----|-------|----|--------|----|----|----|---|----|----|-----|-----------|-----|----|-----|-----|-------|-----|-----|-----|------|---|
| 112 M | 219 | 169 | 117.5 | 28 | M10X22 | 60 | 50 | 5  | 8 | 24 | 31 | 294 | 2-M32X1.5 | 401 | 14 | 341 | 152 | 117.5 | 215 | 180 | 250 | 14.5 | 4 |

### Electrical datas

|                                  |                                                      |                                                          |
|----------------------------------|------------------------------------------------------|----------------------------------------------------------|
| Rated motor power                | <b>4,00 / 4,80</b>                                   | KW 50 / 60 Hz                                            |
| Rated motor speed                | <b>1445</b><br><b>1734</b>                           | min-1 / 50 Hz<br>min-1 / 60 Hz                           |
| Rated motor voltage<br>( +/- 5%) | <b>400</b><br><b>690</b><br><b>460</b><br><b>795</b> | V Δ / 50 Hz<br>V Y / 50 Hz<br>V Δ / 60 Hz<br>V Y / 60 Hz |
| Rated motor torque               | <b>26,4</b>                                          | Nm ( Mn)                                                 |
| Rated motor current 50Hz         | <b>8,13 / 4,71</b>                                   | A ( In )                                                 |
| Rated motor current 60Hz         | <b>8,48 / 4,91</b>                                   | A ( In )                                                 |
| Starting motor current           | <b>7,6</b>                                           | x In                                                     |
| Starting motor torque            | <b>2,3</b>                                           | x Mn                                                     |
| Breakdown motor tor.             | <b>2,3</b>                                           | x Mn                                                     |
| Efficiency                       | <b>86,6%</b><br><b>86,9%</b><br><b>84,9%</b>         | by 100 % Load<br>by 75 % Load<br>by 50 % Load            |
| Efficiency class                 | <b>IE2</b>                                           |                                                          |
| Power factor at                  | <b>0,82</b>                                          | by 100 % Load                                            |

## Mechanical datas

|                      |                   |                        |
|----------------------|-------------------|------------------------|
| Noise level          | <b>53,0</b>       | <b>dB(A)</b>           |
| Moment of inertia    | <b>0,00950</b>    | <b>Kgm<sup>2</sup></b> |
| Bearing A - Site     | <b>6306.ZZ.C3</b> |                        |
| Bearing B - Site     | <b>6306.ZZ.C3</b> |                        |
| Bearing lifetime     | <b>20000 h</b>    | by max Fr + Fx         |
| max. Radialload (Fr) | <b>1914 N</b>     | middle of shaft        |
| max. Axialload (Fx)  | <b>1440 N</b>     | pull force             |
|                      | <b>1440 N</b>     | pressure force         |
| Locating bearing     | <b>loose</b>      | Standard               |

## Explosion protection

| type of protection | Without |
|--------------------|---------|
|--------------------|---------|

## General datas

|                       |                            |
|-----------------------|----------------------------|
| Frame size            | 112 M                      |
| Type of construction  | IM B5 / IM 3001            |
| Weight                | 32,2 kg                    |
| Frame material        | Aluminium                  |
| Protection            | IP 55                      |
| Insulation            | F utilized to B            |
| Tropical insulation   | no                         |
| Vibration level       | A                          |
| Duty type             | S1                         |
| Direction of rotation | bi-directional             |
| Method of cooling     | IC 411                     |
| Cable entries         | 2 x M32x1,5                |
| Norm / Standards      | IEC / DIN / ISO / VDE / EN |
| Execute at            | IEC 60034 -1               |
| Paintwork             | RAL 7030 gray              |
| Warranty              | 12 month                   |

## Site conditions

Ambient temperature    **- 20 bis + 40 °C**  
Altitude above sea level **1000**            m over sea

## Special configurations

Feet removeable

•  
•  
•  
•  
•  
•  
•  
•  
•  
•  
•  
•