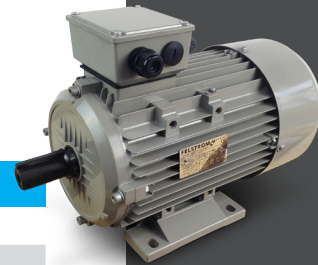


# 3F3A-112MA-4B3



## MECHANICAL DATA

|                         |                          |
|-------------------------|--------------------------|
| Noise at 50Hz           | 65 dB(A)                 |
| Moment of inertia       | 0.01215 kgm <sup>2</sup> |
| Bearing DE              | 6206ZZ                   |
| Bearing NDE             | 6206ZZ                   |
| Bearing lifetime        | 40000 h                  |
| Direction of rotation   | bidirectional            |
| Frame material          | aluminum                 |
| Colour                  | RAL 7030                 |
| Cooling method          | IC411                    |
| Ambient temperature     | -20 / +40 °C             |
| Altitude above sealevel | 1000 m                   |
| Output                  | 4kW                      |
| Speed                   | 1445 rpm                 |
| Ins. Class              | F                        |
| Efficiency              | 88,6% IE3                |
| Voltage                 | 400V                     |
| Connection              | D                        |
| F.L. Current            | 7.95A                    |
| Power factor            | 0,82                     |
| Duty                    | S1                       |
| Frequency               | 50 Hz                    |
| IP                      | 55                       |
| Weight                  | 36 kg                    |

## SPECIAL DESIGN

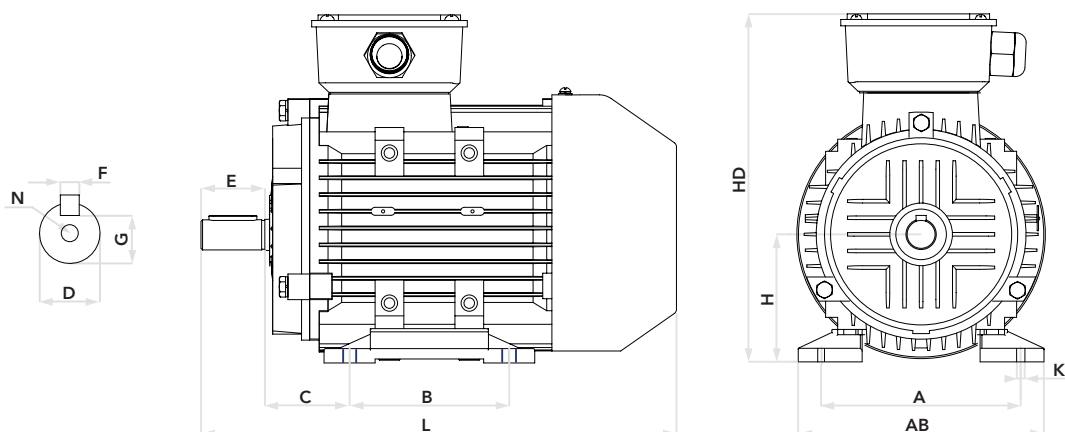
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## ELECTRICAL TEST DATA

|                                                         |           |
|---------------------------------------------------------|-----------|
| Ambient temperature                                     | 23 °C     |
| Resistance of winding                                   | 1,791 Ω   |
| Three phase current unbalanced                          | 1,51 %    |
| No load amps                                            | 3,6 A     |
| No load input                                           | 195,1 W   |
| Core loss (Pfe)                                         | 130,4 W   |
| Windage friction loss (Pfw)                             | 14,37 W   |
| Stator winding loss (Pcu1)                              | 204,5 W   |
| Rotor winding loss (Pcu2)                               | 151,1 W   |
| Stray load loss (Ps)                                    | 64,2 W    |
| Locked rotor current                                    | 67,33 A   |
| Locked rotor current / Full load current                | 8,47      |
| Full load torque                                        | 26,4 Nm   |
| Locked rotor input power at full load                   | 27798,1 W |
| Locked rotor torque                                     | 79,26 Nm  |
| Locked rotor torque / Full load torque                  | 3         |
| Full load input                                         | 4562,8 W  |
| Full load current                                       | 7,715 A   |
| Efficiency at 50% load                                  | 86,29 %   |
| Efficiency at 75% load                                  | 88,42 %   |
| Efficiency at 100% load                                 | 87,67 %   |
| Power factor at full load                               | 0,8536    |
| Full load slip                                          | 3,574 %   |
| Full load speed                                         | 1446 rpm  |
| Stator winding temperature rise                         | 58,98 K   |
| Stator phase resistance at Ambient temperature of 95 °C | 3,436 Ω   |
| Sound pressure level                                    | 63 dB(A)  |
| Vibration                                               | 0,8 mm/s  |
| Insulation resistance                                   | 200 MΩ    |
| Bearing temperature                                     | 58,8 °C   |

Efficiency in compliance with IEC 60034-30 Edition 1.0 - 2008, IE3  
Testing method IEC 60034-2-1 Edition 1.0 - 2007-09

## DIMENSIONS 3F3A-112MA-4B3



| Frame size | Number of poles | A   | B   | C  | D  | E  | F | G  | H   | K  | N   | AB  | HD  | L   |
|------------|-----------------|-----|-----|----|----|----|---|----|-----|----|-----|-----|-----|-----|
| 112MA      | 04              | 190 | 140 | 70 | 28 | 60 | 8 | 24 | 112 | 12 | M10 | 230 | 300 | 450 |

FELSTROM

3F3A-112MA-4B3

