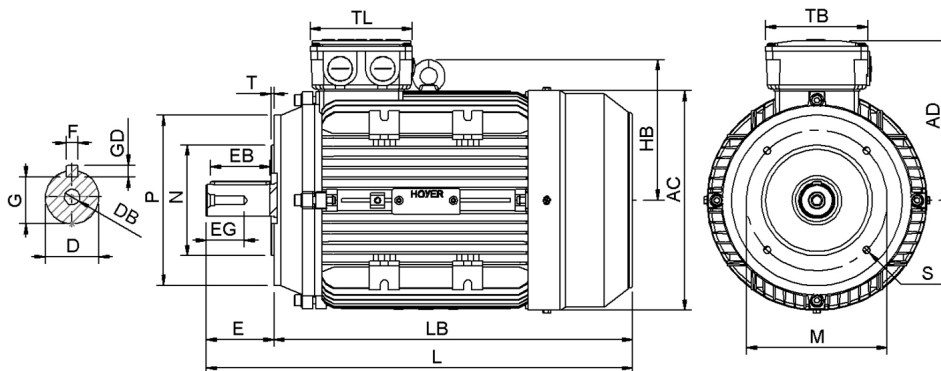


# Data Sheet

Itemnumber..... 5521120309



|          |          |         |          |          |          |          |
|----------|----------|---------|----------|----------|----------|----------|
| AC = 219 | DB = M10 | EG = 28 | GD = 7   | LB = 330 | P = 160  | TB = 120 |
| AD = 168 | E = 60   | F = 8   | HB = 145 | M = 130  | S = 4-M8 | TL = 120 |
| D = 28   | EB = 50  | G = 24  | L = 390  | N = 110  | T = 3,50 |          |

## Version

Type..... HMA3 112M-2  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE3  
Pole..... 2  
Power at 50 Hz (kW)..... 4,00  
Hz..... 50  
Voltage..... 400VD/690VY  
Winding voltage..... 400VD/690VY 50 Hz  
Power output (kW)..... 4,00  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 112  
Mounting..... B14  
B14 M measure..... 130  
Rain cap..... No  
Protection class..... IP55  
Cooling method..... IC411/TEFC  
External grounding..... Yes  
Drain hole..... Yes  
Frame material..... Aluminium  
Material approval..... None  
Shaft..... IEC standard  
Key..... Closed key  
Balancing..... Half key balancing  
Vibration class..... Grade-A  
Weight (kg)..... 32,4

## Environment condition

Ambient temp. min. (°C)..... -20  
Ambient temp. max. (°C)..... 40  
Altitude (mtr up to)..... 1000

## Bearing

DE Bearing..... 6306-ZZ/C3  
NDE Bearing..... 6306-ZZ/C3  
Fixed bearing..... DE

## Terminal box

Tbox position..... Top  
Cable entry direction..... Right (from DE)  
Cable entry  
Main..... 2 x M20x1,5  
Plastic blindcaps  
Accessory..... 1 x M20x1,5  
Plastic blindcap  
Terminal board thread..... 6-M5

## Motor protection

Thermal protection main..... PTC 3x 155 dgr  
Thermal protection second..: None  
Space heater..... None  
Temperature detector..... No  
SPM..... No  
IR wire..... No  
Tropical insulation..... No

## Explosion protection

According to..... None  
Type of protection..... None

## General

Direction of rotation..... CW  
Painting..... RAL 9005  
Nameplate..... Multivoltage  
Special packing..... No  
Special requirements..... No

## Test values

Rotor inertia (kgm²)..... 0,0070  
Noise level (dB(A))..... 67  
No load current (A)..... 2,12  
Winding resist. (ohm)..... 2,90  
Starting time (sec.)..... 0,07  
Temp. rise winding (K)..... 55  
Temp. rise surface (K)..... 33

|                           |                  |                  |                  |                  |
|---------------------------|------------------|------------------|------------------|------------------|
| Rated power (kW)          | 4,00             | 3,90             | 4,80             | 4,65             |
| Frequency (Hz)            | 50               | 50               | 60               | 60               |
| Voltage (V)               | 400 690          | 380 660          | 480 830          | 440              |
| Connection                | D Y              | D Y              | D Y              | D                |
| Full load current (A)     | 7,15 4,15        | 7,35 4,25        | 7,15 4,15        | 7,35             |
| Speed (rpm)               | 2910             | 2910             | 3500             | 3500             |
| Power factor cos(phi)     | 0,92             | 0,92             | 0,92             | 0,92             |
| Efficiency, 100/75/50 (%) | 88,1/ 88,5 /87,5 | 88,1/ 88,5 /87,5 | 88,1/ 88,5 /87,5 | 87,3/ 87,7 /86,7 |
| Ist/In                    | 8,70             | 7,65             | 8,70             | 8,00             |
| Full load torque (Nm)     | 13,2             | 12,8             | 13,2             | 12,8             |
| Tst/Tn                    | 2,60             | 2,42             | 2,60             | 2,26             |
| Tmax/Tn                   | 3,00             | 2,80             | 3,00             | 2,60             |
| Duty                      | S1               | S1               | S1               | S1               |
| Ambient temp. (°C)        | 40               | 45               | 40               | 45               |