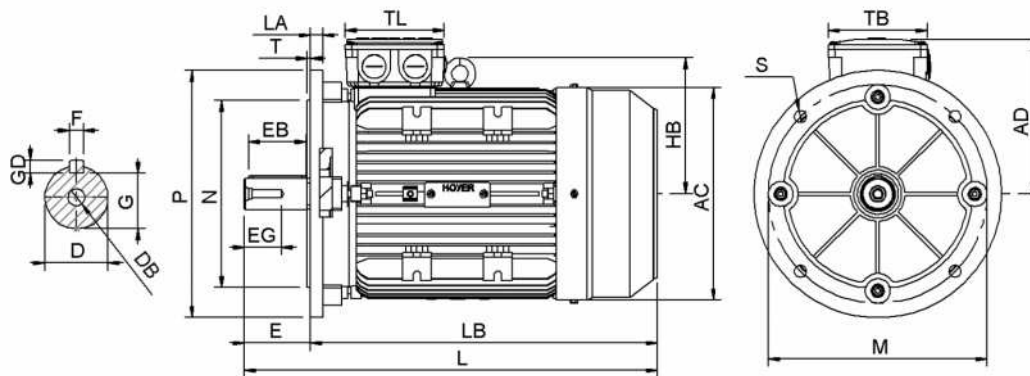


# Data Sheet

Itemnumber....: 5520801209



|          |         |           |         |          |         |           |          |
|----------|---------|-----------|---------|----------|---------|-----------|----------|
| AC = 159 | DB = M6 | EG = 16   | GD = 6  | LA = 10  | M = 165 | S = 4-Ø12 | TL = 100 |
| AD = 126 | E = 40  | F = 6     | H = 80  | LB = 258 | N = 130 | T = 3,50  |          |
| D = 19   | EB = 32 | G = 15,50 | L = 298 | LE = 287 | P = 200 | TB = 100  |          |

## Version

Type.....: HMA3 80 2-2  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE3  
Pole.....: 2  
Power at 50 Hz (kW).....: 1,10  
Hz.....: 50  
Voltage.....: 230VD/400VY  
Winding voltage.....: 230VD/400VY 50 Hz  
Power output (kW).....: 1,10  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 80  
Mounting.....: B5  
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).....: 10,5

## Environment condition

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

## Bearing

DE Bearing.....: 6204-ZZ/C3  
NDE Bearing.....: 6204-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.....: NA  
Connection type.....: Star (Y)  
Terminal board thread.....: 6-M4

## Test values

Rotor inertia (kgm²).....: 0,0013  
Noise level (dB(A)).....: 58  
No load current (A).....: 1,40  
Winding resist. (ohm).....: 4,37  
Starting time (sec.).....: 0,04  
Temp. rise winding (K).....: 41  
Temp. rise surface (K).....: 20

## 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 Gloss 10  
Nameplate.....: Multivoltage  
Special packing.....: No  
Special requirements.....: No

|                               |                |                |                |                |
|-------------------------------|----------------|----------------|----------------|----------------|
| Rated power (kW) . . . . .    | 1,10           | 1,06           | 1,32           | 1,28           |
| Frequency (Hz) . . . . .      | 50             | 50             | 60             | 60             |
| Voltage (V) . . . . .         | 230 400        | 220 380        | 280 480        | 440            |
| Connection . . . . .          | D Y            | D Y            | D Y            | Y              |
| Full load current (A) . . . . | 4,20 2,42      | 4,30 2,48      | 4,20 2,42      | 2,48           |
| Speed (rpm) . . . . .         | 2910           | 2910           | 3490           | 3490           |
| Power factor cos(phi) . . . . | 0,80           | 0,81           | 0,80           | 0,82           |
| Efficiency, 100/75/50 (%) . . | 83,5/84,1/82,7 | 83,5/84,1/82,7 | 83,5/84,1/82,7 | 82,3/83,0/81,5 |
| Ist/In . . . . .              | 8,6            | 7,6            | 8,6            | 7,9            |
| Full load torque (Nm) . . . . | 3,65           | 3,55           | 3,65           | 3,55           |
| Tst/Tn . . . . .              | 3,4            | 3,2            | 3,4            | 3,0            |
| Tmax /Tn . . . . .            | 3,6            | 3,4            | 3,6            | 3,1            |
| Duty . . . . .                | S1             | S1             | S1             | S1             |
| Ambient temp. (°C) . . . . .  | 40             | 45             | 40             | 45             |