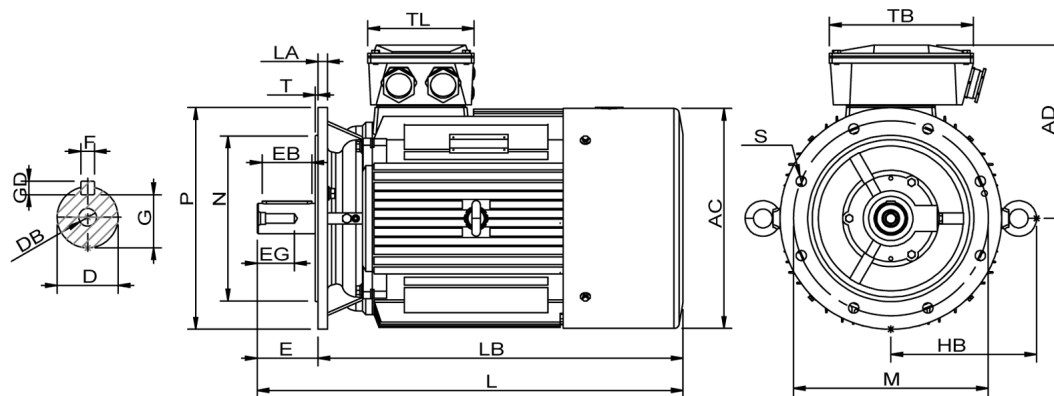


# Data Sheet

Itemnumber.....: 3243152209



|          |          |         |          |           |           |          |
|----------|----------|---------|----------|-----------|-----------|----------|
| AC = 620 | DB = M20 | EG = 56 | GD = 14  | LA = 22   | N = 550   | T = 6    |
| AD = 546 | E = 170  | F = 22  | HB = 432 | LB = 1148 | P = 660   | TB = 400 |
| D = 80   | EB = 140 | G = 71  | L = 1318 | M = 600   | S = 8-Ø24 | TL = 280 |

## Version

Type.....: HMC2 315L1-4  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE2  
Pole.....: 4  
Power at 50 Hz (kW).....: 160  
Hz.....: 60 (60 Hz output)  
Voltage.....: 440VD  
Winding voltage.....: 400VD/690VY 50 Hz  
Power output (kW).....: 186  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 315  
Mounting.....: B5  
Rain cap.....: No  
Protection class.....: IP55  
Cooling method.....: IC411/TEFC  
External grounding.....: Yes  
Drain hole.....: Yes  
Frame material.....: Cast Iron  
Material approval.....: None  
Shaft.....: IEC Standard  
Key.....: Closed key  
Balancing.....: Half key balancing  
Vibration class.....: Grade-A  
Weight (kg).....: 968

## Environment condition

Ambient temp. min. (°C)....: -20  
Ambient temp. max. (°C)....: 45  
Altitude (mtr up to).....: 1000

## Bearing

DE Bearing.....: 6319/C3  
NDE Bearing.....: 6319/C3  
Fixed bearing.....: DE

## Terminal box

Tbox position.....: Top  
Cable entry direction.....: Right (from DE)  
Cable entry  
Main.....: 2 x M63x1,5  
Ø37-44mm metal  
Accessory.....: 2 x M20x1,5  
Metal blindcaps  
Terminal board thread.....: 6-M16

## Motor protection

Thermal protection main....: PTC 3x 155 dgr  
Thermal protection second..: None  
Space heater.....: 1x 230V 100W  
Temperature detector.....: No  
SPM.....: No  
IR wire.....: No  
Tropical insulation.....: Yes

## Explosion protection

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

## General

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

## Test values

Rotor inertia (kgm²).....: 3,71  
Noise level (dB(A)).....: 79  
No load current (A).....: 85,5  
Winding resist. (ohm).....: 0,015  
Starting time (sec.).....: 0,22  
Temp. rise winding (K).....: 63  
Temp. rise surface (K).....: 45

|                           |                  |                  |                  |                  |
|---------------------------|------------------|------------------|------------------|------------------|
| Rated power (kW)          | 160              | 156              | 192              | 186              |
| 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)     | 275 160          | 285 164          | 275 160          | 290              |
| Speed (rpm)               | 1480             | 1480             | 1780             | 1780             |
| Power factor cos(phi)     | 0,89             | 0,89             | 0,89             | 0,90             |
| Efficiency, 100/75/50 (%) | 94,9/ 94,8 /94,0 | 94,9/ 94,8 /94,0 | 94,9/ 94,8 /94,0 | 94,5/ 94,4 /93,6 |
| Ist/In                    | 7,40             | 6,50             | 7,40             | 6,80             |
| Full load torque (Nm)     | 1.020            | 995              | 1.020            | 995              |
| Tst/Tn                    | 2,90             | 2,70             | 2,90             | 2,50             |
| Tmax/Tn                   | 3,20             | 2,95             | 3,20             | 2,75             |
| Duty                      | S1               | S1               | S1               | S1               |
| Ambient temp. (°C)        | 40               | 45               | 40               | 45               |