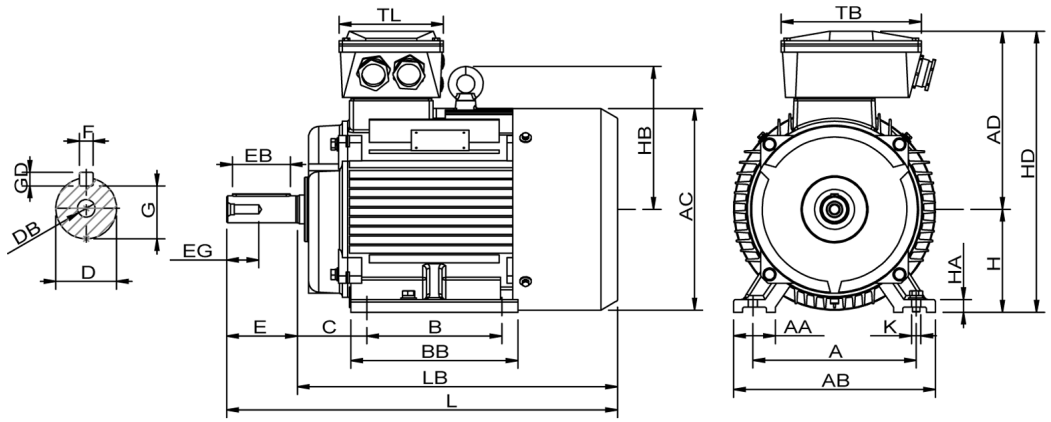
# Data Sheet

**Itemnumber....: 3222500109**




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **A = 406** | **AC = 484** | **BB = 445** | **DB = M20** | **EG = 56** | **GD = 11** | **HB = 317** | **L = 910** | **TL = 230** |
| **AA = 80** | **AD = 374** | **C = 168** | **E = 140** | **F = 18** | **H = 250** | **HD = 624** | **LB = 770** | |
| **AB = 484** | **B = 349** | **D = 60** | **EB = 110** | **G = 53** | **HA = 30** | **K = 24** | **TB = 305** | |

**Version**
Type.....: HMC2 250M-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

**Electrical design**
Efficiency.....: IE2
Pole.....: 2
Power at 50 Hz (kW).....: 55,0
Hz.....: 60 (60 Hz output)
Voltage.....: 440VD
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 64,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

**Motor protection**
Thermal protection main....: PTC 3x 155 dgr
Thermal protection second..: None
Space heater.....: 1x 230V 80W
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

**Mechanical design**
Frame size.....: 250
Mounting.....: B3
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).....: 405

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

**Bearing**
DE Bearing.....: 6313/C3
NDE Bearing.....: 6313/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-M10

**Test values**
Rotor inertia (kgm²).....: 0,34
Noise level (dB(A)).....: 79
No load current (A).....: 26,0
Winding resist. (ohm).....: 0,078
Starting time (sec.).....: 0,29
Temp. rise winding (K).....: 70
Temp. rise surface (K).....: 51

| | | | | |
|---|---|---|---|---|
| Rated power (kW) | 55,0 | 53,5 | 66,0 | 64,0 |
| 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) | 96,0 55,5 | 98,5 57,0 | 96,0 55,5 | 102 |
| Speed (rpm) | 2970 | 2970 | 3550 | 3550 |
| Power factor cos(phi) | 0,89 | 0,89 | 0,89 | 0,89 |
| Efficiency, 100/75/50 (%) | 93,2/ 93,1 /92,4 | 93,2/ 93,1 /92,4 | 93,2/ 93,1 /92,4 | 92,9/ 92,8 /92,0 |
| Ist/In | 6,75 | 5,95 | 6,75 | 6,20 |
| Full load torque (Nm) | 178 | 172 | 178 | 172 |
| Tst/Tn | 1,92 | 1,78 | 1,92 | 1,66 |
| Tmax/Tn | 3,20 | 3,00 | 3,20 | 2,75 |
| Duty | S1 | S1 | S1 | S1 |
| Ambient temp. (°C) | 40 | 45 | 40 | 45 |



Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.