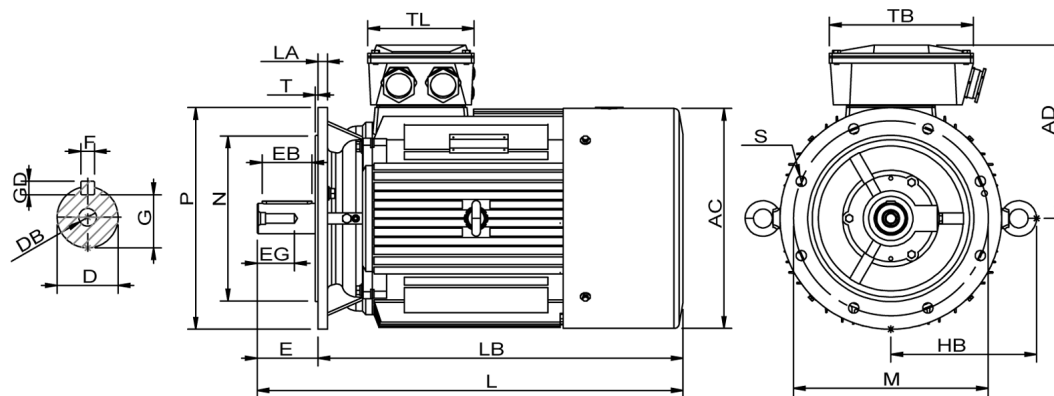


# Data Sheet

Itemnumber..... 3222801209



AC = 546	DB = M20	EG = 56	GD = 11	LA = 22	N = 450	T = 5
AD = 403	E = 140	F = 18	HB = 362	LB = 876	P = 550	TB = 305
D = 65	EB = 110	G = 58	L = 1016	M = 500	S = 8 - Ø18	TL = 230

## Version

Type..... HMC2 280M-2  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE2  
Pole..... 2  
Power at 50 Hz (kW)..... 90,0  
Hz..... 60 (60 Hz output)  
Voltage..... 440VD  
Winding voltage..... 400VD/690VY 50 Hz  
Power output (kW)..... 104  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 280  
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)..... 582

## Environment condition

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

## Bearing

DE Bearing..... 6314/C3  
NDE Bearing..... 6314/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)..... 0,83  
Noise level (dB(A))..... 91  
No load current (A)..... 41,0  
Winding resist. (ohm)..... 0,054  
Starting time (sec.)..... 0,35  
Temp. rise winding (K)..... 64  
Temp. rise surface (K)..... 55

## 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

Rated power (kW)	90,0	87,5	108	104
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)	150 87,0	154 89,5	150 87,0	158
Speed (rpm)	2980	2980	3560	3560
Power factor cos(phi)	0,92	0,92	0,92	0,92
Efficiency, 100/75/50 (%)	94,1/ 94,0 /92,9	94,1/ 94,0 /92,9	94,1/ 94,0 /92,9	93,8/ 93,6 /92,5
Ist/In	9,55	8,40	9,55	8,80
Full load torque (Nm)	290	280	290	280
Tst/Tn	2,60	2,40	2,60	2,24
Tmax/Tn	3,60	3,35	3,60	3,10
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45