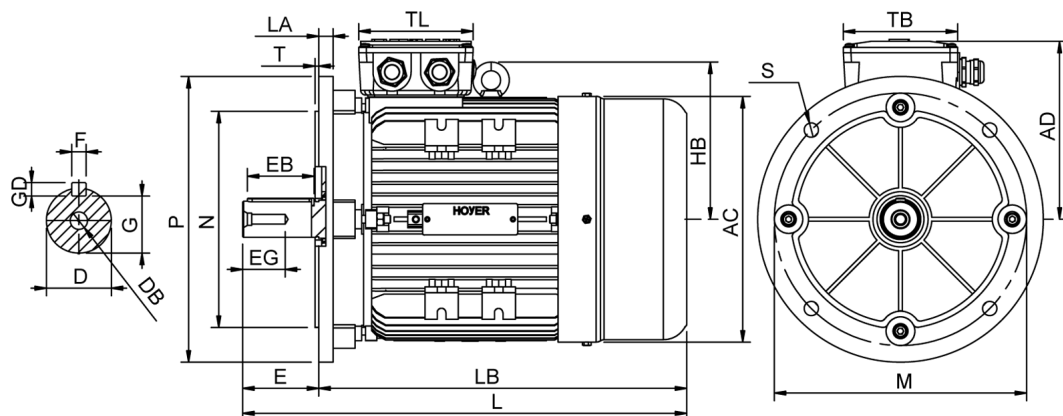


# Data Sheet

Itemnumber..... 3220800209



AC = 159	DB = M6	EG = 16	GD = 6	LB = 254	P = 200	TB = 100
AD = 126	E = 40	F = 6	L = 294	M = 165	S = 4-Ø12	TL = 100
D = 19	EB = 32	G = 15,50	LA = 10	N = 130	T = 3,50	

## Version

Type..... HMA2 80 1-2  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE2  
Pole..... 2  
Power at 50 Hz (kW)..... 0,75  
Hz..... 60 (60 Hz output)  
Voltage..... 440VY  
Winding voltage..... 230VD/400VY 50 Hz  
Power output (kW)..... 0,87  
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)..... 9,00

## Environment condition

Ambient temp. min. (°C)..... -20  
Ambient temp. max. (°C)..... 45  
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..... 1 x M20x1,5  
Ø8-13mm metal  
Accessory..... 1 x M20x1,5  
Metal blindcap  
Terminal board thread..... 6-M4

## Test values

Rotor inertia (kgm²)..... 0,00098  
Noise level (dB(A))..... 62  
No load current (A)..... 1,08  
Winding resist. (ohm)..... 8,98  
Starting time (sec.)..... 0,00  
Temp. rise winding (K)..... 44  
Temp. rise surface (K)..... 43

## 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..... 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) . . . . .	0,75	0,73	0,90	0,87
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) . . . .	3,00 1,72	3,10 1,78	3,00 1,72	1,78
Speed (rpm) . . . . .	2880	2880	3450	3450
Power factor cos(phi) . . . .	0,81	0,82	0,81	0,86
Efficiency, 100/75/50 (%) . .	77,4/ 77,7 /75,1	77,4/ 77,7 /75,1	77,4/ 77,7 /75,1	75,8/ 76,1 /73,4
Ist/In . . . . .	6,65	5,85	6,65	6,10
Full load torque (Nm) . . . .	2,50	2,42	2,50	2,42
Tst/Tn . . . . .	2,85	2,65	2,85	2,46
Tmax/Tn . . . . .	3,00	2,80	3,00	2,60
Duty . . . . .	S1	S1	S1	S1
Ambient temp. (°C) . . . . .	40	45	40	45