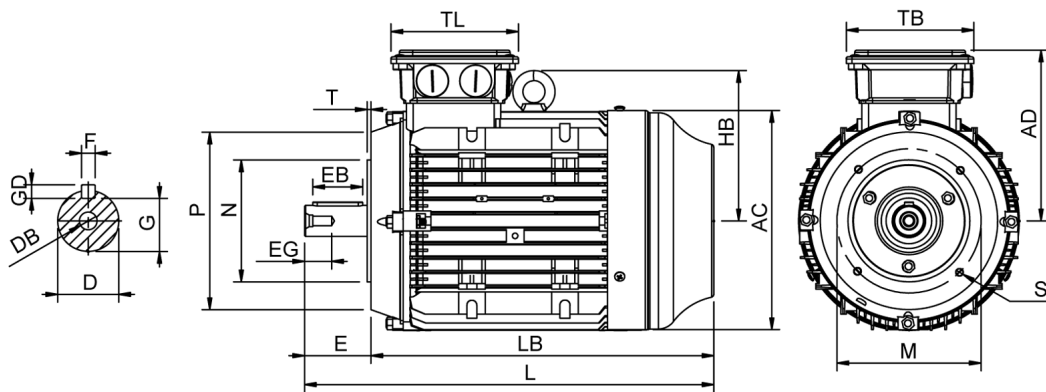


# Data Sheet

Itemnumber.....: 6020801300



AC = 157	D = 19	EB = 32	G = 15,50	LB = 256	P = 120	TB = 110
AD = 123	DB = M6	EG = 16	GD = 6	M = 100	S = 4-M6	TL = 110
C = 50	E = 40	F = 6	L = 296	N = 80	T = 3	

## Version

Type.....: HMA4 80M2-2  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE4  
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

## Motor protection

Thermal protection main....: PTC 3x 155 dgr  
Thermal protection second..: None  
Space heater.....: None 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  
Nameplate.....: Multivoltage  
Special packing.....: No  
Special requirements.....: No

## Mechanical design

Frame size.....: 80  
Mounting.....: B14  
B14 M measure.....: 100  
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).....: 13,0

## 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.....: 6203-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.....: 1 x M12x1,5  
Plastic blindcap  
Terminal board thread.....: M4

## Test values

Rotor inertia (kgm²).....: 0,0010  
Noise level (dB(A)).....: 55  
Starting time (sec.).....: 0,02

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)	4,30 2,48	4,45 2,55	4,30 2,48	2,55
Speed (rpm)	2880	2880	3450	3450
Power factor cos(phi)	0,75	0,76	0,75	0,78
Efficiency, 100/75/50 (%)	85,2/85,3/83,7	85,2/85,3/83,7	85,2/85,3/83,7	84,2/84,3/82,6
Ist/In	8,30	7,30	8,30	7,65
Full load torque (Nm)	3,65	3,55	3,65	3,55
Tst/Tn	4,80	4,45	4,80	4,15
Tmax/Tn	4,20	3,90	4,20	3,65
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45