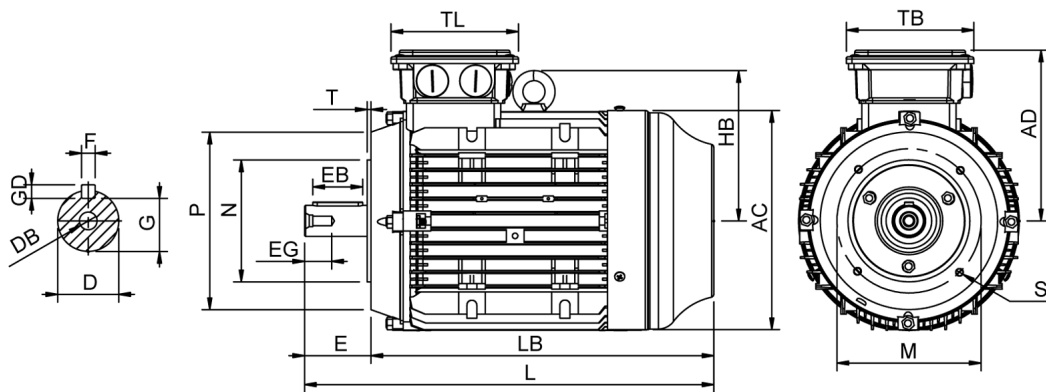


# Data Sheet

Itemnumber.....: 6021120300



AC = 222	DB = M10	EG = 28	GD = 7	LB = 321	P = 160	TB = 115
AD = 169	E = 60	F = 8	HB = 146	M = 130	S = 4-M8	TL = 115
D = 28	EB = 50	G = 24	L = 381	N = 110	T = 3,50	

## Version

Type.....: HMA4 112M-2  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE4  
Pole.....: 2  
Power at 50 Hz (kW).....: 4,00  
Hz.....: 50  
Voltage.....: 400VD/690VY  
Winding voltage.....: 400VD/690VY 50 Hz  
Power output (kW).....: 4,00  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 112  
Mounting.....: B14  
B14 M measure.....: 130  
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).....: 37,0

## Environment condition

Ambient temp. min. (°C).....: -20  
Ambient temp. max. (°C).....: 40  
Altitude (mtr up to).....: 1000

## Bearing

DE Bearing.....: 6306-ZZ/C3  
NDE Bearing.....: 6205-ZZ/C3  
Fixed bearing.....: DE

## Terminal box

Tbox position.....: Top  
Cable entry direction.....: Right (from DE)  
Cable entry  
Main.....: 2 x M25x1,5  
Plastic blindcaps  
Accessory.....: 1 x M20x1,5  
Plastic blindcap  
Terminal board thread.....: M5

## Test values

Rotor inertia (kgm²).....: 0,014  
Noise level (dB(A)).....: 63  
Starting time (sec.).....: 0,12

## 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

Rated power (kW)	4,00	3,90	4,80	4,65
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)	7,35 4,25	7,60 4,40	7,35 4,25	7,60
Speed (rpm)	2920	2920	3500	3500
Power factor cos(phi)	0,87	0,88	0,87	0,88
Efficiency, 100/75/50 (%)	90,0/89,9/88,0	90,0/89,9/88,0	90,0/89,9/88,0	89,3/89,2/87,2
Ist/In	9,20	8,10	9,20	8,45
Full load torque (Nm)	13,2	12,8	13,2	12,8
Tst/Tn	3,00	2,80	3,00	2,60
Tmax/Tn	3,60	3,35	3,60	3,10
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45