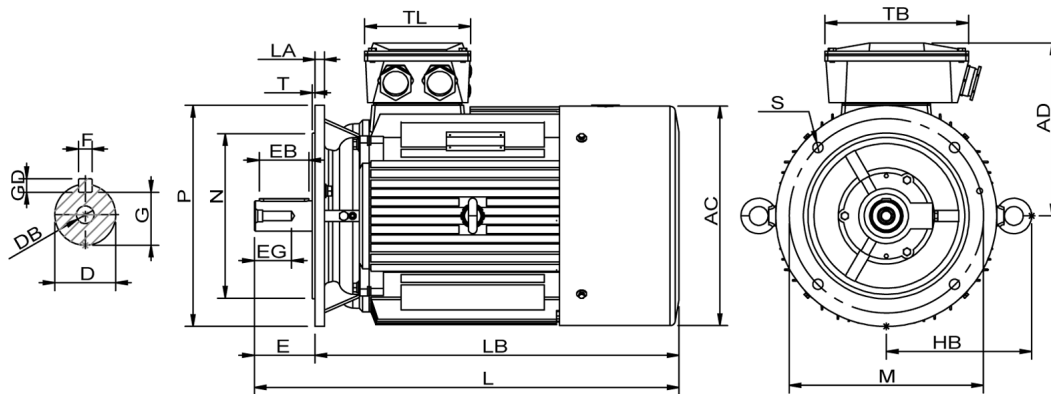


# Data Sheet

Itemnumber..... 3261601209



AC = 313	DB = M16	EG = 36	GD = 8	LA = 15	N = 250	T = 5
AD = 277	E = 110	F = 12	HB = 222	LB = 542	P = 350	TB = 218
D = 42	EB = 90	G = 37	L = 652	M = 300	S = 4-Ø18,5	TL = 162

## Version

Type..... HMC2 160L-6  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE2  
Pole..... 6  
Power at 50 Hz (kW)..... 11,0  
Hz..... 60 (60 Hz output)  
Voltage..... 440VD  
Winding voltage..... 400VD/690VY 50 Hz  
Power output (kW)..... 12,8  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 160  
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)..... 150

## Environment condition

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

## Bearing

DE Bearing..... 6309-ZZ/C3  
NDE Bearing..... 6309-ZZ/C3  
Fixed bearing..... DE

## Terminal box

Tbox position..... Top  
Cable entry direction..... Right (from DE)  
Cable entry  
Main..... 2 x M40x1,5  
Ø22-30mm metal  
Accessory..... 2 x M20x1,5  
Metal blindcaps  
Terminal board thread..... 6-M6

## Test values

Rotor inertia (kgm²)..... 0,16  
Noise level (dB(A))..... 62  
No load current (A)..... 12,0  
Winding resist. (ohm)..... 0,51  
Starting time (sec.)..... 0,08  
Temp. rise winding (K)..... 57  
Temp. rise surface (K)..... 46

## Motor protection

Thermal protection main..... PTC 3x 155 dgr  
Thermal protection second..: None  
Space heater..... 1x 230V 50W  
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)	11,0	10,6	13,2	12,8
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)	23,2 13,4	24,0 13,8	23,2 13,4	24,2
Speed (rpm)	970	970	1160	1160
Power factor cos(phi)	0,77	0,78	0,77	0,79
Efficiency, 100/75/50 (%)	88,7/ 89,1 /88,1	88,7/ 89,1 /88,1	88,7/ 89,1 /88,1	87,9/ 88,3 /87,3
Ist/In	6,20	5,45	6,20	5,70
Full load torque (Nm)	108	104	108	104
Tst/Tn	2,50	2,32	2,50	2,16
Tmax/Tn	2,34	2,18	2,34	2,04
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45