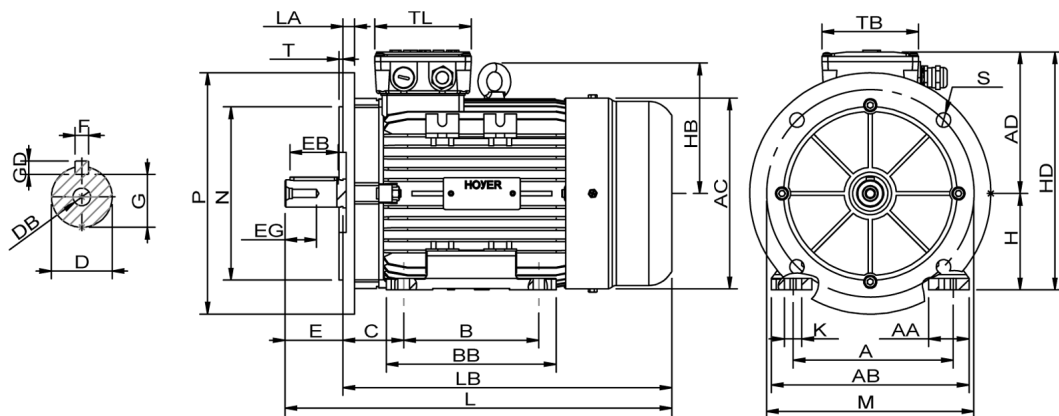


# Data Sheet

Itemnumber..... 3221000409



A = 160	AC = 198	BB = 176	DB = M10	EG = 28	GD = 7	HB = 135	L = 401	M = 215	S = 4-Ø15	TL = 100
AA = 42	AD = 147	C = 63	E = 60	F = 8	H = 100	HD = 247	LA = 14	N = 180	T = 4	
AB = 205	B = 140	D = 28	EB = 50	G = 24	HA = 12	K = 12	LB = 341	P = 250	TB = 100	

## Version

Type..... HMA2 100L-2  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE2  
Pole..... 2  
Power at 50 Hz (kW)..... 3,00  
Hz..... 60 (60 Hz output)  
Voltage..... 440VY  
Winding voltage..... 230VD/400VY 50 Hz  
Power output (kW)..... 3,50  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 100  
Mounting..... B35  
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)..... 23,0

## Environment condition

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

## Bearing

DE Bearing..... 6206-ZZ/C3  
NDE Bearing..... 6206-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)..... 0,0041  
Noise level (dB(A))..... 69  
No load current (A)..... 2,42  
Winding resist. (ohm)..... 1,57  
Starting time (sec.)..... 0,00  
Temp. rise winding (K)..... 59  
Temp. rise surface (K)..... 40

## 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)	3,00	2,90	3,60	3,50
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)	10,2 5,80	10,4 6,00	10,2 5,80	6,00
Speed (rpm)	2900	2900	3490	3490
Power factor cos(phi)	0,88	0,89	0,88	0,86
Efficiency, 100/75/50 (%)	84,6/ 85,0 /83,5	84,6/ 85,0 /83,5	84,6/ 85,0 /83,5	83,8/ 84,2 /82,7
Ist/In	8,75	7,70	8,75	8,05
Full load torque (Nm)	9,85	9,55	9,85	9,55
Tst/Tn	3,15	2,90	3,15	2,70
Tmax/Tn	3,90	3,65	3,90	3,40
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45