

# Data Sheet

Itemnumber.....: 5521601100



A = 254	AC = 313	BB = 260	DB = M16	EG = 36	GD = 8	HB = 221	L = 610	TL = 162
AA = 65	AD = 276	C = 108	E = 110	F = 12	H = 160	HD = 436	LB = 500	
AB = 314	B = 210	D = 42	EB = 100	G = 37	HA = 20	K = 14,50	TB = 218	

## Version

Type.....: HMC3 160M2-2  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE3  
Pole.....: 2  
Power at 50 Hz (kW).....: 15,0  
Hz.....: 50  
Voltage.....: 400VD/690VY  
Winding voltage.....: 400VD/690VY 50 Hz  
Power output (kW).....: 15,0  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 160  
Mounting.....: B3  
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).....: 137

## Environment condition

Ambient temp. min. (°C)....: -20  
Ambient temp. max. (°C)....: 40  
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  
Plastic blindcaps  
Accessory.....: 2 x M20x1,5  
Plastic blindcaps  
Terminal board thread.....: 6-M6

## 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.....: 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

## Test values

Rotor inertia (kgm²).....: 0,066  
Noise level (dB(A)).....: 79  
No load current (A).....: 7,60  
Winding resist. (ohm).....: 0,44  
Starting time (sec.).....: 0,14  
Temp. rise winding (K).....: 60  
Temp. rise surface (K).....: 43

Rated power (kW)	15,0	14,6	18,0	17,4
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)	26,0 15,0	26,5 15,4	26,0 15,0	26,5
Speed (rpm)	2950	2950	3550	3550
Power factor cos(phi)	0,91	0,91	0,91	0,92
Efficiency, 100/75/50 (%)	91,9/ 91,9 /90,8	91,9/ 91,9 /90,8	91,9/ 91,9 /90,8	91,3/ 91,4 /90,2
Ist/In	9,95	8,75	9,95	9,15
Full load torque (Nm)	48,5	47,0	48,5	47,0
Tst/Tn	2,95	2,75	2,95	2,55
Tmax/Tn	3,90	3,65	3,90	3,40
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45