

# Data Sheet

Itemnumber.....: 5541601100



A = 254	AC = 313	BB = 304	DB = M16	EG = 36	GD = 8	HB = 221	L = 654	TL = 162
AA = 65	AD = 276	C = 108	E = 110	F = 12	H = 160	HD = 436	LB = 544	
AB = 314	B = 254	D = 42	EB = 100	G = 37	HA = 20	K = 14,50	TB = 218	

## Version

Type.....: HMC3 160L-4  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE3  
Pole.....: 4  
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).....: 144

## 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).....: 0,13  
Noise level (dB(A)).....: 70  
No load current (A).....: 12,0  
Winding resist. (ohm).....: 0,58  
Starting time (sec.).....: 0,08  
Temp. rise winding (K).....: 66  
Temp. rise surface (K).....: 40

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)	28,5 16,4	29,0 17,0	28,5 16,4	29,0
Speed (rpm)	1470	1470	1760	1760
Power factor cos(phi)	0,83	0,84	0,83	0,85
Efficiency, 100/75/50 (%)	92,1/ 92,4 /91,8	92,1/ 92,4 /91,8	92,1/ 92,4 /91,8	91,5/ 91,9 /91,2
Ist/In	9,05	8,00	9,05	8,35
Full load torque (Nm)	97,0	94,0	97,0	94,0
Tst/Tn	3,15	2,95	3,15	2,75
Tmax/Tn	3,40	3,15	3,40	2,95
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45