

# Data Sheet

Itemnumber.....: 5521800100



A = 279	AC = 354	BB = 311	DB = M16	EG = 40	GD = 9	HB = 237	L = 686	TL = 162
AA = 70	AD = 292	C = 121	E = 110	F = 14	H = 180	HD = 472	LB = 576	
AB = 349	B = 241	D = 48	EB = 100	G = 42,50	HA = 22	K = 14,50	TB = 218	

## Version

Type.....: HMC3 180M-2  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE3  
Pole.....: 2  
Power at 50 Hz (kW).....: 22,0  
Hz.....: 50  
Voltage.....: 400VD/690VY  
Winding voltage.....: 400VD/690VY 50 Hz  
Power output (kW).....: 22,0  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 180  
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).....: 198

## Environment condition

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

## Bearing

DE Bearing.....: 6311-ZZ/C3  
NDE Bearing.....: 6311-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)).....: 79  
No load current (A).....: 12,2  
Winding resist. (ohm).....: 0,26  
Starting time (sec.).....: 0,16  
Temp. rise winding (K).....: 53  
Temp. rise surface (K).....: 34

Rated power (kW)	22,0	21,4	26,5	25,5
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)	38,0 22,0	39,5 22,8	38,0 22,0	39,5
Speed (rpm)	2960	2960	3550	3550
Power factor cos(phi)	0,90	0,90	0,90	0,91
Efficiency, 100/75/50 (%)	92,7/ 92,4 /90,9	92,7/ 92,4 /90,9	92,7/ 92,4 /90,9	92,2/ 91,9 /90,3
Ist/In	10,00	8,80	10,00	9,20
Full load torque (Nm)	71,0	68,5	71,0	68,5
Tst/Tn	4,10	3,80	4,10	3,55
Tmax/Tn	4,10	3,80	4,10	3,55
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45