

# Data Sheet

Itemnumber.....: 5522250100



A = 356	AC = 445	BB = 393	DB = M20	EG = 56	GD = 10	HB = 285	L = 818	TL = 192
AA = 75	AD = 336	C = 149	E = 110	F = 16	H = 225	HD = 561	LB = 708	
AB = 431	B = 311	D = 55	EB = 100	G = 49	HA = 28	K = 18,50	TB = 260	

## Version

Type.....: HMC3 225M-2  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE3  
Pole.....: 2  
Power at 50 Hz (kW).....: 45,0  
Hz.....: 50  
Voltage.....: 400VD/690VY  
Winding voltage.....: 400VD/690VY 50 Hz  
Power output (kW).....: 45,0  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 225  
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).....: 324

## Environment condition

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

## Bearing

DE Bearing.....: 6312/C3  
NDE Bearing.....: 6312/C3  
Fixed bearing.....: DE

## Terminal box

Tbox position.....: Top  
Cable entry direction.....: Right (from DE)  
Cable entry  
Main.....: 2 x M50x1,5  
Plastic blindcaps  
Accessory.....: 2 x M20x1,5  
Plastic blindcaps  
Terminal board thread.....: 6-M8

## 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).....: 0,34  
Noise level (dB(A)).....: 84  
No load current (A).....: 19,2  
Winding resist. (ohm).....: 0,094  
Starting time (sec.).....: 0,26  
Temp. rise winding (K).....: 60  
Temp. rise surface (K).....: 40

Rated power (kW)	45,0	43,5	54,0	52,5
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)	76,0 44,0	78,0 45,5	76,0 44,0	78,0
Speed (rpm)	2970	2970	3580	3580
Power factor cos(phi)	0,91	0,92	0,91	0,92
Efficiency, 100/75/50 (%)	94,0/ 93,9 /92,9	94,0/ 93,9 /92,9	94,0/ 93,9 /92,9	93,6/ 93,5 /92,4
Ist/In	8,70	7,65	8,70	8,00
Full load torque (Nm)	144	140	144	140
Tst/Tn	3,25	3,05	3,25	2,80
Tmax/Tn	3,45	3,20	3,45	2,95
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45