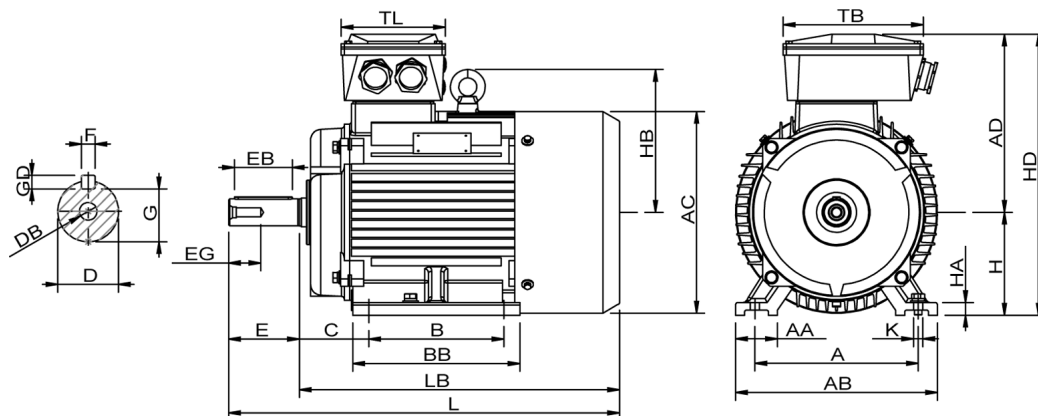


# Data Sheet

Itemnumber..... 322251109



A = 356	AC = 463	BB = 393	DB = M20	EG = 56	GD = 10	HB = 307	L = 864	TL = 192
AA = 75	AD = 347	C = 149	E = 110	F = 16	H = 225	HD = 572	LB = 754	
AB = 431	B = 311	D = 55	EB = 90	G = 49	HA = 28	K = 18,50	TB = 260	

## Version

Type..... HMC2 225M1-2  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE2  
Pole..... 2  
Power at 50 Hz (kW)..... 55,0  
Hz..... 60 (60 Hz output)  
Voltage..... 440VD  
Winding voltage..... 400VD/690VY 50 Hz  
Power output (kW)..... 64,0  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 225M1  
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)..... 385

## Environment condition

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

## Bearing

DE Bearing..... 6313-ZZ/C3  
NDE Bearing..... 6313-ZZ/C3  
Fixed bearing..... DE

## Terminal box

Tbox position..... Top  
Cable entry direction..... Right (from DE)  
Cable entry  
Main..... 2 x M50x1,5  
Ø32-38mm metal  
Accessory..... 2 x M20x1,5  
Metal blindcaps  
Terminal board thread..... 6-M8

## Test values

Rotor inertia (kgm²)..... 0,40  
No load current (A)..... 23,0  
Winding resist. (ohm)..... 0,078  
Starting time (sec.)..... 0,38

## Motor protection

Thermal protection main..... PTC 3x 155 dgr  
Thermal protection second..... None  
Space heater..... 1x 230V 80W  
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)	55,0	53,5	66,0	64,0
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)	93,0 54,0	95,5 55,5	93,0 54,0	98,0
Speed (rpm)	2970	2970	3550	3550
Power factor cos(phi)	0,92	0,92	0,92	0,93
Efficiency, 100/75/50 (%)	93,2/ 93,0 /92,0	93,2/ 93,0 /92,0	93,2/ 93,0 /92,0	92,7/ 92,5 /91,5
Ist/In	5,95	5,25	5,95	5,45
Full load torque (Nm)	176	172	176	172
Tst/Tn	1,80	1,68	1,80	1,56
Tmax/Tn	2,85	2,65	2,85	2,46
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45