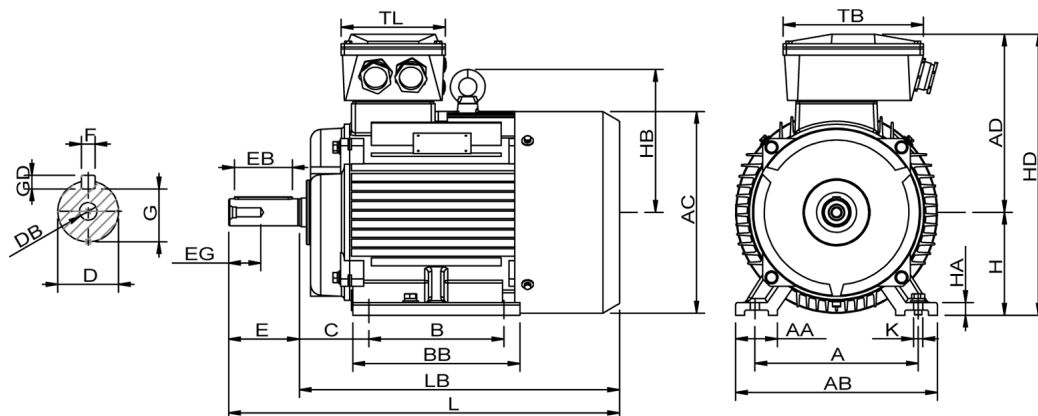


# Data Sheet

Itemnumber....: 3242251199



A = 356	AC = 445	BB = 393	DB = M20	EG = 56	GD = 11	HB = 286	L = 832	TL = 192
AA = 75	AD = 336	C = 149	E = 140	F = 18	H = 225	HD = 561	LB = 692	
AB = 431	B = 311	D = 60	EB = 110	G = 53	HA = 28	K = 18,50	TB = 260	

## Version

Type.....: HMC2 225M-4  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE2  
Pole.....: 4  
Power at 50 Hz (kW).....: 45,0  
Hz.....: 60 (60 Hz output)  
Voltage.....: 690V  
Winding voltage.....: 690V 60 Hz  
Power output (kW).....: 52,5  
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).....: 330

## 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.....: 6312-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).....: 0,57  
Noise level (dB(A)).....: 68  
No load current (A).....: 13,2  
Winding resist. (ohm).....: 0,33  
Starting time (sec.).....: 0,13  
Temp. rise winding (K).....: 75  
Temp. rise surface (K).....: 58

## 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.....: Yes  
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) . . . . .	45,0	54,0	52,5
Frequency (Hz) . . . . .	50	60	60
Voltage (V) . . . . .	575	690	690
Connection . . . . .	D	D	D
Full load current (A) . . . .	54,0	56,5	54,5
Speed (rpm) . . . . .	1480	1770	1770
Power factor cos(phi) . . . .	0,90	0,90	0,90
Efficiency, 100/75/50 (%) . .	93,1/ 93,0 /92,5	93,1/ 93,0 /92,5	93,1/ 93,0 /92,5
Ist/In . . . . .	7,45	7,45	7,70
Full load torque (Nm) . . . .	290	290	280
Tst/Tn . . . . .	2,48	2,48	2,55
Tmax/Tn . . . . .	3,25	3,25	3,35
Duty . . . . .	S1	S1	S1
Ambient temp. (°C) . . . . .	40	40	45