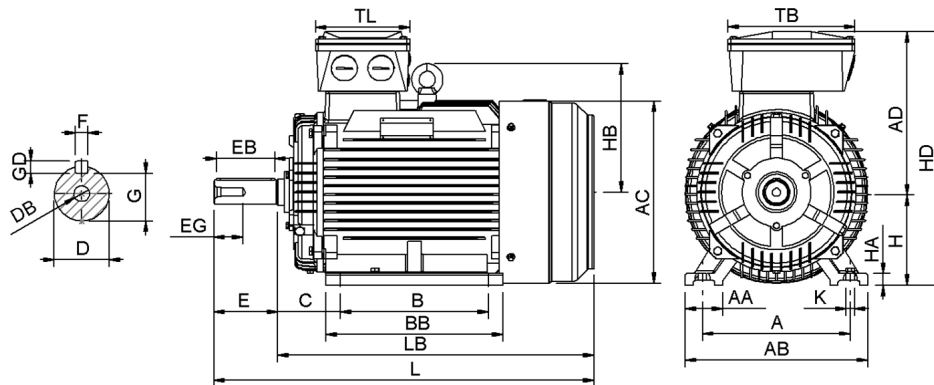


# Data Sheet

Itemnumber.....: 5542251150



A = 356	AC = 445	BB = 393	DB = M20	EG = 56	GD = 11	HB = 285	L = 848	TL = 192
AA = 75	AD = 336	C = 149	E = 140	F = 18	H = 225	HD = 561	LB = 708	
AB = 431	B = 311	D = 60	EB = 130	G = 53	HA = 28	K = 18,50	TB = 260	

## Version

Type.....: HMC3 225M-4  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE3  
Pole.....: 4  
Power at 50 Hz (kW).....: 45,0  
Hz.....: 50  
Voltage.....: 230VD/400VY  
Winding voltage.....: 230VD/400VY 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).....: 343

## Environment condition

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

## Bearing

DE Bearing.....: 6313/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).....: 0,69  
Noise level (dB(A)).....: 77  
No load current (A).....: 24,2  
Winding resist. (ohm).....: 0,044  
Starting time (sec.).....: 0,17  
Temp. rise winding (K).....: 63  
Temp. rise surface (K).....: 47

Rated power (kW)	45,0	43,5	54,0	52,5
Frequency (Hz)	50	50	60	60
Voltage (V)	230 400	220 380	280 480	440
Connection	D Y	D Y	D Y	Y
Full load current (A)	134 77,5	138 79,5	134 77,5	79,5
Speed (rpm)	1480	1480	1770	1770
Power factor cos(phi)	0,88	0,89	0,88	0,89
Efficiency, 100/75/50 (%)	94,2/ 94,7 /93,5	94,2/ 94,7 /93,5	94,2/ 94,7 /93,5	93,8/ 94,3 /93,1
Ist/In	7,50	6,60	7,50	6,90
Full load torque (Nm)	290	280	290	280
Tst/Tn	2,60	2,42	2,60	2,26
Tmax/Tn	2,85	2,65	2,85	2,46
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45