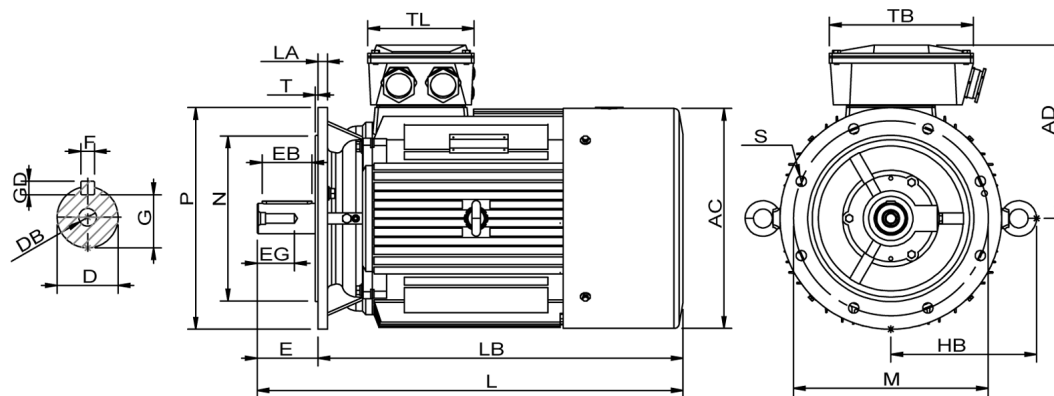


# Data Sheet

Itemnumber....: 3242250259



AC = 445	DB = M20	EG = 56	GD = 11	LA = 20	N = 350	T = 5
AD = 336	E = 140	F = 18	HB = 286	LB = 667	P = 450	TB = 260
D = 60	EB = 110	G = 53	L = 807	M = 400	S = 8-Ø18,5	TL = 192

## Version

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

## Electrical design

Efficiency.....: IE2  
Pole.....: 4  
Power at 50 Hz (kW).....: 37,0  
Hz.....: 60 (60 Hz output)  
Voltage.....: 440VY  
Winding voltage.....: 230VD/400VY 50 Hz  
Power output (kW).....: 43,0  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 225  
Mounting.....: B5  
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).....: 305

## 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).....: 0,55  
Noise level (dB(A)).....: 68  
No load current (A).....: 20,0  
Winding resist. (ohm).....: 0,054  
Starting time (sec.).....: 0,16  
Temp. rise winding (K).....: 72  
Temp. rise surface (K).....: 47

## 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)	37,0	36,0	44,5	43,0
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)	112 64,5	116 66,5	112 64,5	68,0
Speed (rpm)	1480	1480	1770	1770
Power factor cos(phi)	0,89	0,90	0,89	0,90
Efficiency, 100/75/50 (%)	92,7/ 93,2 /92,7	92,7/ 93,2 /92,7	92,7/ 93,2 /92,7	92,2/ 92,7 /92,2
Ist/In	7,05	6,20	7,05	6,50
Full load torque (Nm)	238	230	238	230
Tst/Tn	2,28	2,12	2,28	1,98
Tmax/Tn	3,10	2,90	3,10	2,70
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45