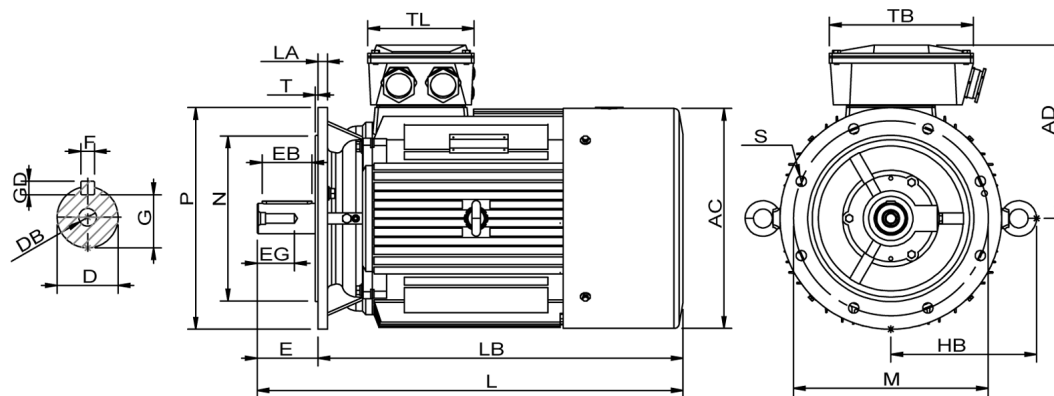


# Data Sheet

Itemnumber.....: 3242800209



AC = 546	DB = M20	EG = 56	GD = 12	LA = 22	N = 450	T = 5
AD = 403	E = 140	F = 20	HB = 362	LB = 845	P = 550	TB = 305
D = 75	EB = 110	G = 67,50	L = 985	M = 500	S = 8-Ø18,5	TL = 230

## Version

Type.....: HMC2 280S-4  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE2  
Pole.....: 4  
Power at 50 Hz (kW).....: 75,0  
Hz.....: 60 (60 Hz output)  
Voltage.....: 440VD  
Winding voltage.....: 400VD/690VY 50 Hz  
Power output (kW).....: 87,5  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 280  
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).....: 552

## Environment condition

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

## Bearing

DE Bearing.....: 6317/C3  
NDE Bearing.....: 6314/C3  
Fixed bearing.....: DE

## Terminal box

Tbox position.....: Top  
Cable entry direction.....: Right (from DE)  
Cable entry  
Main.....: 2 x M63x1,5  
                  Ø37-44mm metal  
Accessory.....: 2 x M20x1,5  
                  Metal blindcaps  
Terminal board thread.....: 6-M10

## Test values

Rotor inertia (kgm²).....: 1,55  
Noise level (dB(A)).....: 77  
No load current (A).....: 37,0  
Winding resist. (ohm).....: 0,087  
Starting time (sec.).....: 0,20  
Temp. rise winding (K).....: 76  
Temp. rise surface (K).....: 68

## Motor protection

Thermal protection main....: PTC 3x 155 dgr  
Thermal protection second..: None  
Space heater.....: 1x 230V 100W  
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)	75,0	73,0	90,0	87,5
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)	126 73,5	130 75,5	126 73,5	134
Speed (rpm)	1480	1480	1780	1780
Power factor cos(phi)	0,91	0,91	0,91	0,92
Efficiency, 100/75/50 (%)	94,0/ 94,8 /94,6	94,0/ 94,8 /94,6	94,0/ 94,8 /94,6	93,6/ 94,4 /94,2
Ist/In	8,05	7,10	8,05	7,40
Full load torque (Nm)	485	470	485	470
Tst/Tn	2,60	2,42	2,60	2,26
Tmax/Tn	3,35	3,10	3,35	2,90
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45