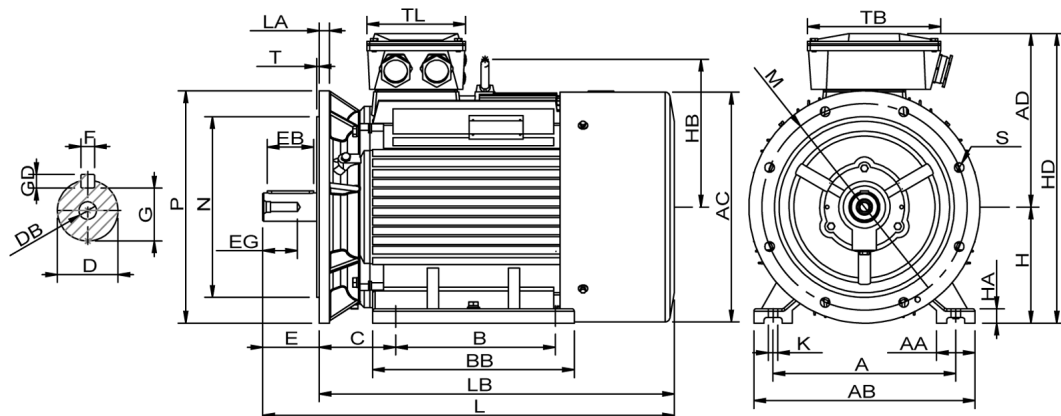


# Data Sheet

Itemnumber..... 3242802409



A = 457	AC = 558	BB = 536	DB = M20	EG = 56	GD = 12	HB = 407	L = 1097	M = 500	S = 8-Ø18,5	TL = 230
AA = 85	AD = 419	C = 190	E = 140	F = 20	H = 280	HD = 699	LA = 22	N = 450	T = 5	
AB = 542	B = 419	D = 75	EB = 110	G = 67,50	HA = 35	K = 24	LB = 957	P = 550	TB = 305	

## Version

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

## Electrical design

Efficiency..... IE2  
Pole..... 4  
Power at 50 Hz (kW)..... 110  
Hz..... 60 (60 Hz output)  
Voltage..... 440VD  
Winding voltage..... 400VD/690VY 50 Hz  
Power output (kW)..... 128  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 280MB  
Mounting..... B35  
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)..... 811

## Environment condition

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

## Bearing

DE Bearing..... 6317/C3  
NDE Bearing..... 6317/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)..... 2,53  
No load current (A)..... 68,0  
Winding resist. (ohm)..... 0,034  
Starting time (sec.)..... 0,22

## 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) . . . . .	110	106	132	128
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) . . . .	190 110	196 114	190 110	200
Speed (rpm) . . . . .	1490	1490	1780	1780
Power factor cos(phi) . . . .	0,88	0,89	0,88	0,89
Efficiency, 100/75/50 (%) . .	94,5/ 93,7 /92,3	94,5/ 93,7 /92,3	94,5/ 93,7 /92,3	94,1/ 93,2 /91,7
Ist/In . . . . .	7,55	6,65	7,55	6,95
Full load torque (Nm) . . . .	705	685	705	685
Tst/Tn . . . . .	2,65	2,46	2,65	2,30
Tmax/Tn . . . . .	3,40	3,15	3,40	2,95
Duty . . . . .	S1	S1	S1	S1
Ambient temp. (°C) . . . . .	40	45	40	45