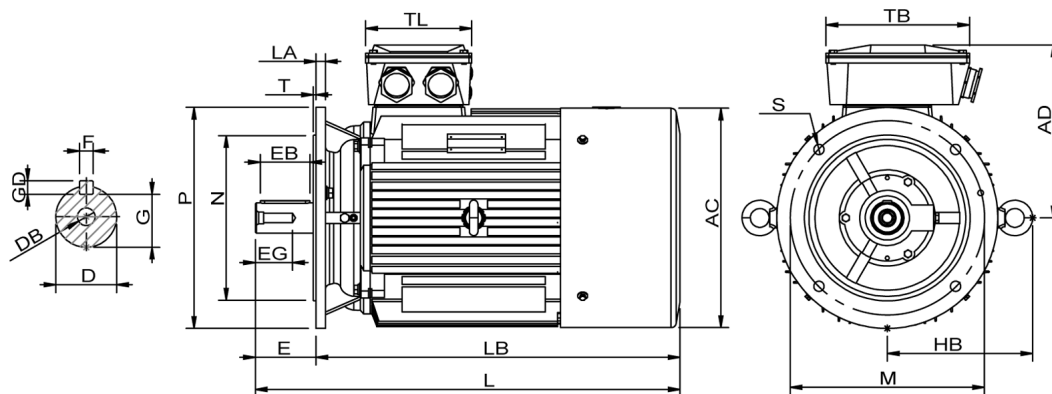


# Data Sheet

Itemnumber.....: 3241800299



AC = 357	DB = M16	EG = 40	GD = 9	LA = 15	N = 250	T = 5
AD = 293	E = 110	F = 14	HB = 238	LB = 578	P = 350	TB = 218
D = 48	EB = 90	G = 42,50	L = 688	M = 300	S = 4-Ø18,5	TL = 162

## Version

Type.....: HMC2 180M-4  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE2  
Pole.....: 4  
Power at 50 Hz (kW).....: 18,5  
Hz.....: 60 (60 Hz output)  
Voltage.....: 690VD  
Winding voltage.....: 690VD 60 Hz  
Power output (kW).....: 21,6  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 180  
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).....: 175

## Environment condition

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

## Bearing

DE Bearing.....: 6311-ZZ/C3  
NDE Bearing.....: 6311-ZZ/C3  
Fixed bearing.....: DE

## Terminal box

Tbox position.....: Top  
Cable entry direction.....: Right (from DE)  
Cable entry  
Main.....: 2 x M40x1,5  
Ø22-30mm metal  
Accessory.....: 2 x M20x1,5  
Metal blindcaps  
Terminal board thread.....: 6-M6

## Test values

Rotor inertia (kgm²).....: 0,20  
Noise level (dB(A)).....: 66  
No load current (A).....: 6,40  
Winding resist. (ohm).....: 0,72  
Starting time (sec.).....: 0,11  
Temp. rise winding (K).....: 68  
Temp. rise surface (K).....: 53

## Motor protection

Thermal protection main....: PTC 3x 155 dgr  
Thermal protection second..: None  
Space heater.....: 1x 230V 60W  
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)	18,5	22,2	21,6
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A)	23,6	24,0	23,2
Speed (rpm)	1470	1740	1740
Power factor cos(phi)	0,86	0,86	0,86
Efficiency, 100/75/50 (%)	91,2/ 90,5 /89,6	91,2/ 90,5 /89,6	91,2/ 90,5 /89,6
Ist/In	7,60	7,60	7,85
Full load torque (Nm)	120	120	116
Tst/Tn	2,60	2,60	2,65
Tmax/Tn	3,25	3,25	3,35
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45