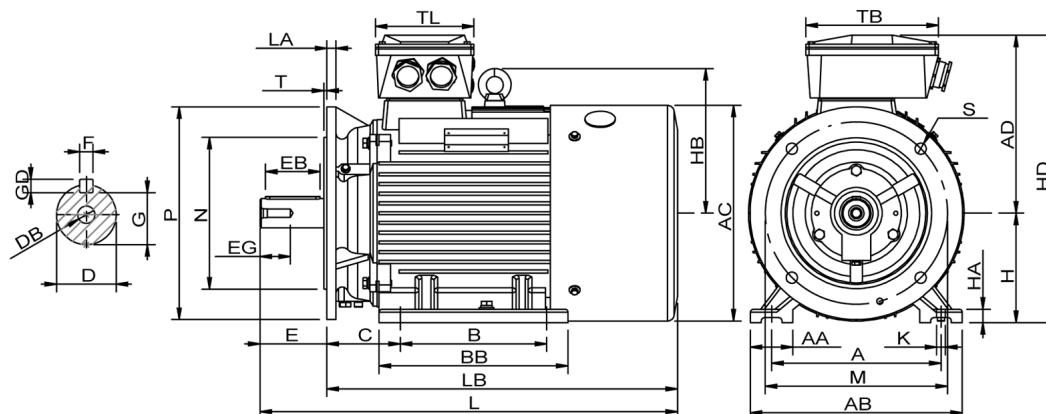


# Data Sheet

Itemnumber..... 3241802409



A = 279	AC = 376	BB = 371	DB = M16	EG = 40	GD = 9	HB = 248	L = 781	M = 300	S = 4-Ø18,5	TL = 162
AA = 70	AD = 303	C = 121	E = 110	F = 14	H = 180	HD = 483	LA = 15	N = 250	T = 5	
AB = 349	B = 279	D = 48	EB = 90	G = 42,50	HA = 22	K = 14,50	LB = 671	P = 350	TB = 218	

## Version

Type..... HMC2 180L1-4  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE2  
Pole..... 4  
Power at 50 Hz (kW)..... 30,0  
Hz..... 60 (60 Hz output)  
Voltage..... 440VD  
Winding voltage..... 400VD/690VY 50 Hz  
Power output (kW)..... 35,0  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 180  
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)..... 235

## 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)..... 0,28  
No load current (A)..... 18,0  
Winding resist. (ohm)..... 0,22  
Starting time (sec.)..... 0,11

## 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..... 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)	30,0	29,0	36,0	35,0
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)	53,0 31,0	54,5 31,5	53,0 31,0	56,0
Speed (rpm)	1470	1470	1760	1760
Power factor cos(phi)	0,88	0,89	0,88	0,90
Efficiency, 100/75/50 (%)	92,3/ 92,5 /92,0	92,3/ 92,5 /92,0	92,3/ 92,5 /92,0	91,8/ 92,0 /91,5
Ist/In	6,25	5,50	6,25	5,75
Full load torque (Nm)	194	188	194	188
Tst/Tn	2,32	2,16	2,32	2,02
Tmax/Tn	2,60	2,44	2,60	2,26
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45