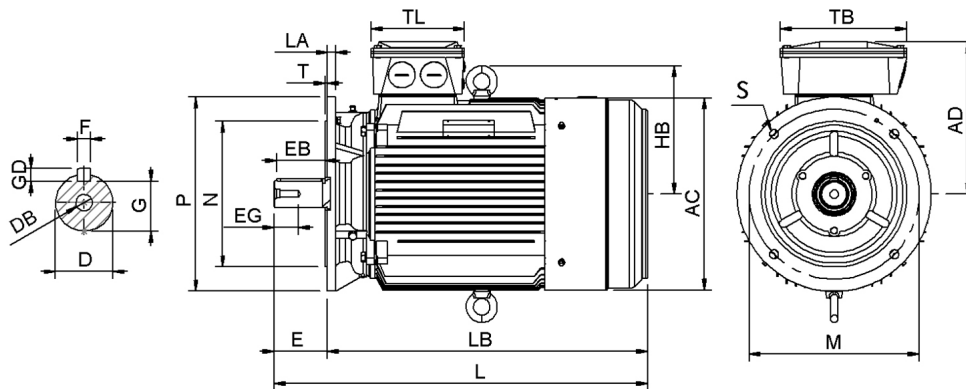


# Data Sheet

Itemnumber.....: 5521602200



AC = 313	DB = M16	EG = 36	GD = 8	LA = 14	N = 250	T = 5
AD = 276	E = 110	F = 12	HB = 221	LB = 544	P = 350	TB = 218
D = 42	EB = 100	G = 37	L = 654	M = 300	S = 4-Ø18,5	TL = 162

## Version

Type.....: HMC3 160L-2  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE3  
Pole.....: 2  
Power at 50 Hz (kW).....: 18,5  
Hz.....: 50  
Voltage.....: 400VD/690VY  
Winding voltage.....: 400VD/690VY 50 Hz  
Power output (kW).....: 18,5  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 160  
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).....: 150

## Environment condition

Ambient temp. min. (°C).....: -20  
Ambient temp. max. (°C).....: 40  
Altitude (mtr up to).....: 1000

## Bearing

DE Bearing.....: 6309-ZZ/C3  
NDE Bearing.....: 6309-ZZ/C3  
Fixed bearing.....: DE

## Terminal box

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

## Motor protection

Thermal protection main.....: PTC 3x 155 dgr  
Thermal protection second.....: None  
Space heater.....: None  
Temperature detector.....: No  
SPM.....: No  
IR wire.....: No  
Tropical insulation.....: No

## Explosion protection

According to.....: None  
Type of protection.....: None

## General

Direction of rotation.....: CW  
Painting.....: RAL 9005  
Nameplate.....: Multivoltage  
Special packing.....: No  
Special requirements.....: No

## Test values

Rotor inertia (kgm²).....: 0,083  
Noise level (dB(A)).....: 78  
No load current (A).....: 9,45  
Winding resist. (ohm).....: 0,34  
Starting time (sec.).....: 0,13  
Temp. rise winding (K).....: 59  
Temp. rise surface (K).....: 38

Rated power (kW)	18,5	18,0	22,2	21,6
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)	32,0 18,6	33,0 19,0	32,0 18,6	33,0
Speed (rpm)	2960	2960	3550	3550
Power factor cos(phi)	0,91	0,91	0,91	0,91
Efficiency, 100/75/50 (%)	92,4/ 92,4 /91,3	92,4/ 92,4 /91,3	92,4/ 92,4 /91,3	91,9/ 91,9 /90,7
Ist/In	10,6	9,40	10,6	9,85
Full load torque (Nm)	60,0	58,0	60,0	58,0
Tst/Tn	3,20	3,00	3,20	2,80
Tmax/Tn	4,30	4,00	4,30	3,75
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45