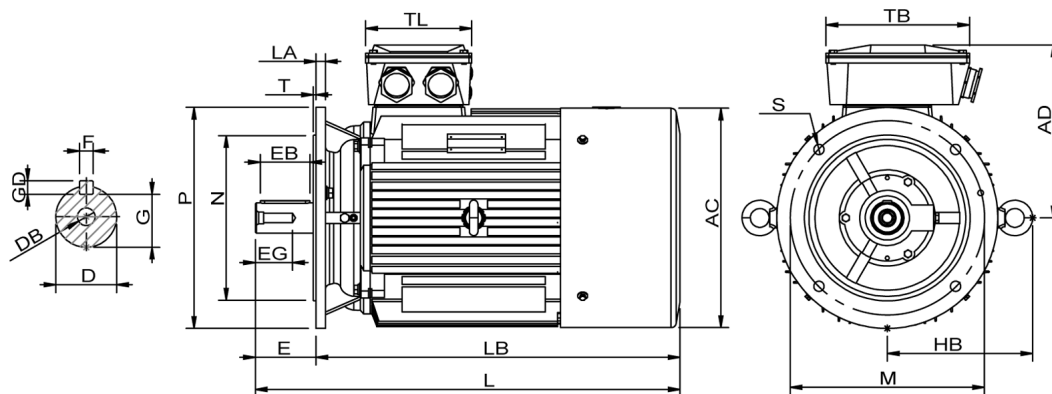


Data Sheet

Itemnumber.....: 3221601209



AC = 313	DB = M16	EG = 36	GD = 8	LA = 15	N = 250	T = 5
AD = 277	E = 110	F = 12	HB = 222	LB = 498	P = 350	TB = 218
D = 42	EB = 90	G = 37	L = 608	M = 300	S = 4-Ø18,5	TL = 162

Version

Type.....: HMC2 160M2-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE2
Pole.....: 2
Power at 50 Hz (kW).....: 15,0
Hz.....: 60 (60 Hz output)
Voltage.....: 440VD
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 17,4
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).....: 119

Environment condition

Ambient temp. min. (°C).....: -20
Ambient temp. max. (°C).....: 45
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
Ø22-30mm metal
Accessory.....: 2 x M20x1,5
Metal blindcaps
Terminal board thread.....: 6-M6

Test values

Rotor inertia (kgm²).....: 0,053
Noise level (dB(A)).....: 74
No load current (A).....: 7,10
Winding resist. (ohm).....: 0,43
Starting time (sec.).....: 0,14
Temp. rise winding (K).....: 67
Temp. rise surface (K).....: 40

Motor protection

Thermal protection main.....: PTC 3x 155 dgr
Thermal protection second.....: None
Space heater.....: 1x 230V 50W
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)	15,0	14,6	18,0	17,4
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)	26,0 15,0	27,0 15,6	26,0 15,0	27,5
Speed (rpm)	2940	2940	3520	3520
Power factor cos(phi)	0,92	0,93	0,92	0,93
Efficiency, 100/75/50 (%)	90,3/ 89,4 /88,8	90,3/ 89,4 /88,8	90,3/ 89,4 /88,8	89,8/ 88,9 /88,2
Ist/In	7,25	6,35	7,25	6,65
Full load torque (Nm)	48,5	47,0	48,5	47,0
Tst/Tn	2,50	2,32	2,50	2,16
Tmax/Tn	3,45	3,20	3,45	2,95
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45