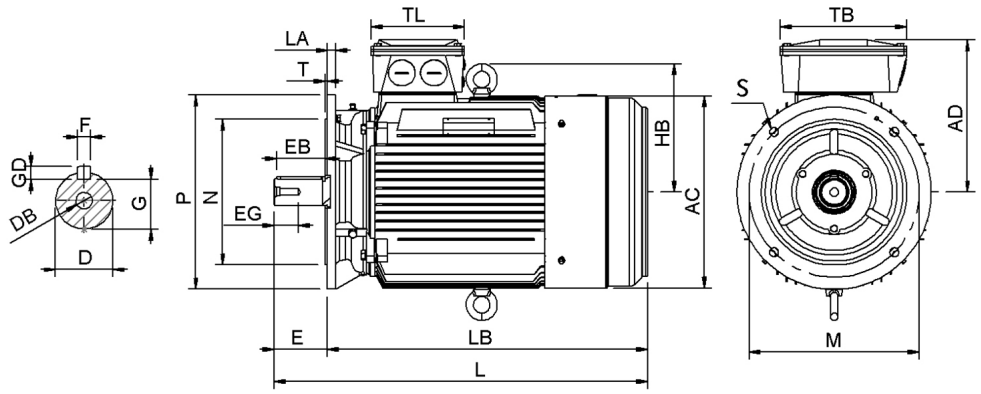
Data Sheet

Itemnumber....: 5521600250



AC = 313	**DB = M16**	**EG = 36**	**GD = 8**	**LA = 14**	**N = 250**	**T = 5**
AD = 276	**E = 110**	**F = 12**	**HB = 221**	**LB = 500**	**P = 350**	**TB = 218**
D = 42	**EB = 100**	**G = 37**	**L = 610**	**M = 300**	**S = 4-Ø18,5**	**TL = 162**

Version
Type.....: HMC3 160M1-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design
Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 11,0
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 11,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

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

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)..: 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

Test values
Rotor inertia (kgm²).....: 0,056
Noise level (dB(A)).....: 78
No load current (A).....: 5,70
Winding resist. (ohm).....: 0,21
Starting time (sec.).....: 0,20
Temp. rise winding (K).....: 54
Temp. rise surface (K).....: 37

Rated power (kW)	11,0	10,6	13,2	12,8
Frequency (Hz)	50	50	60	60
Voltage (V)	230 400	220 380	280 480	440
Connection	D Y	D Y	D Y	Y
Full load current (A)	33,5 19,4	34,5 20,0	33,5 19,4	20,0
Speed (rpm)	2950	2950	3540	3540
Power factor cos(phi)	0,90	0,90	0,90	0,91
Efficiency, 100/75/50 (%)	91,2/ 91,3 /90,1	91,2/ 91,3 /90,1	91,2/ 91,3 /90,1	90,6/ 90,7 /89,4
Ist/In	8,95	7,90	8,95	8,25
Full load torque (Nm)	35,5	34,5	35,5	34,5
Tst/Tn	2,50	2,34	2,50	2,18
Tmax/Tn	3,50	3,25	3,50	3,00
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45