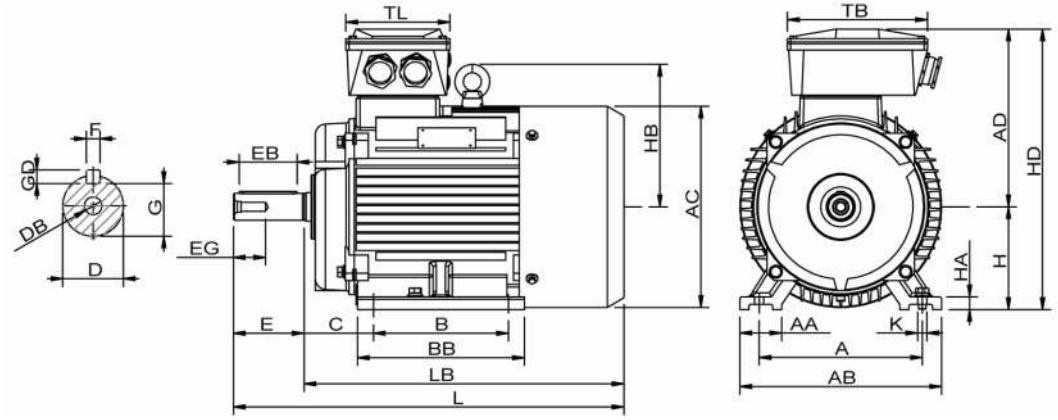
Data Sheet

Itemnumber....: 3241601109



A = 254	**AC = 313**	**BB = 304**	**DB = M16**	**EG = 36**	**GD = 8**	**HB = 222**	**L = 652**	**TL = 162**
AA = 65	**AD = 277**	**C = 108**	**E = 110**	**F = 12**	**H = 160**	**HD = 437**	**LB = 542**	
AB = 314	**B = 254**	**D = 42**	**EB = 90**	**G = 37**	**HA = 20**	**K = 14,50**	**TB = 218**	

Version
Type.....: HMC2 160L-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design
Efficiency.....: IE2
Pole.....: 4
Power at 50 Hz (kW).....: 15,0
Hz.....: 60 (60 Hz output)
Voltage.....: 440VD 60 Hz
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 17,4
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Motor protection
Thermal protection main....: PTC 3x 155 dgr
Thermal protection second..: None
Space heater.....: 1x 230V
Temperature detector.....: No
SPM.....: No
IR wire.....: No
Tropical insulation.....: Yes

Explosion protection
According to.....: None

General
Direction of rotation.....: CW
Painting.....: RAL 9005 Gloss 10
Nameplate.....: Multivoltage + VFD
Special packing.....: No
Special requirements.....: No

Mechanical design
Frame size.....: 160
Mounting.....: B3
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).....: 140

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
Ø22-32mm metal
Accessory.....: 2 x M20x1,5
Metal blindcaps
Connection type.....: Delta (D)
Terminal board thread.....: 6-M6

Test values
Rotor inertia (kgm²).....: 0,13
Noise level (dB(A)).....: 63
No load current (A).....: 10,4
Winding resist. (ohm).....: 0,43
Starting time (sec.).....: 0,07
Temp. rise winding (K).....: 65
Temp. rise surface (K).....: 46

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)	27,5 15,8	28,0 16,2	27,5 15,8	28,5
Speed (rpm)	1470	1470	1740	1740
Power factor cos(phi)	0,88	0,89	0,88	0,90
Efficiency, 100/75/50 (%)	90,3/90,7/89,5	90,3/90,7/89,5	90,3/90,7/89,5	89,6/90,0/88,7
Ist/In	7,8	6,9	7,8	7,2
Full load torque (Nm)	98,0	95,0	98,0	95,0
Tst/Tn	3	2,8	3	2,6
Tmax /Tn	3,4	3,2	3,4	2,9
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45

Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.