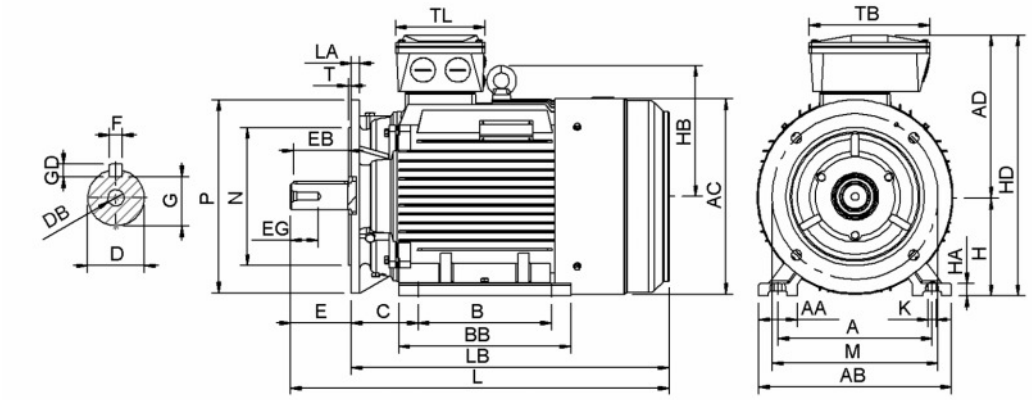
Data Sheet

Itemnumber....: 5561601400



A = 254	**AC = 313**	**BB = 304**	**DB = M16**	**EG = 36**	**GD = 8**	**HB = 221**	**L = 654**	**M = 300**	**S = 4-Ø18,5 TL = 162**
AA = 65	**AD = 276**	**C = 108**	**E = 110**	**F = 12**	**H = 160**	**HD = 436**	**LA = 14**	**N = 250**	**T = 5**
AB = 314	**B = 254**	**D = 42**	**EB = 100**	**G = 37**	**HA = 20**	**K = 14,50**	**LB = 544**	**P = 350**	**TB = 218**

Version
Type.....: HMC3 160L-6
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design
Efficiency.....: IE3
Pole.....: 6
Power at 50 Hz (kW).....: 11,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 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.....: 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).....: 145

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
Metal blindcaps
Accessory.....: 2 x M20x1,5
Metal blindcaps
Terminal board thread.....: 6-M6

Test values
Rotor inertia (kgm²).....: 0,16
Noise level (dB(A)).....: 65
No load current (A).....: 8,35
Winding resist. (ohm).....: 0,82
Starting time (sec.).....: 0,09
Temp. rise winding (K).....: 67
Temp. rise surface (K).....: 53

Rated power (kW)	11,0		13,2	
Frequency (Hz)	50		60	
Voltage (V)	400	690	480	830
Connection	D	Y	D	Y
Full load current (A)	21,4	12,4	21,4	12,4
Speed (rpm)	970		1160	
Power factor cos(phi)	0,83		0,83	
Efficiency, 100/75/50 (%)	90,4/91,3/91,2		90,4/91,3/91,2	
Ist/In	6,10		6,10	
Full load torque (Nm)	108		108	
Tst/Tn	2,00		2,00	
Tmax/Tn	2,50		2,50	
Duty	S1		S1	
Ambient temp. (°C)	40		40	

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.