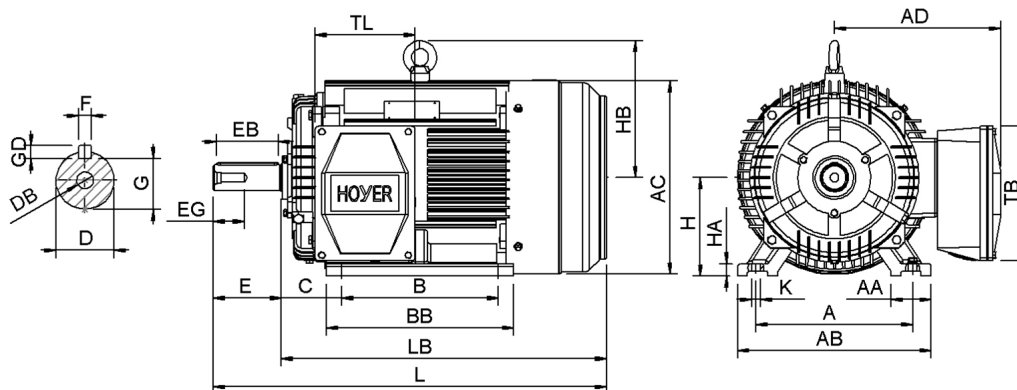


Data Sheet

Itemnumber.....: 5541601110



A = 254	AC = 313	BB = 304	DB = M16	EG = 36	GD = 8	HB = 221	LB = 544
AA = 65	AD = 276	C = 108	E = 110	F = 12	H = 160	K = 14,50	TB = 218
AB = 314	B = 254	D = 42	EB = 100	G = 37	HA = 20	L = 654	TL = 162

Version

Type.....: HMC3 160L-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 15,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 15,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

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).....: 144

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.....: Right
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).....: 0,13
Noise level (dB(A)).....: 70
No load current (A).....: 12,0
Winding resist. (ohm).....: 0,58
Starting time (sec.).....: 0,08
Temp. rise winding (K).....: 66
Temp. rise surface (K).....: 40

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)	28,5 16,4	29,0 17,0	28,5 16,4	29,0
Speed (rpm)	1470	1470	1760	1760
Power factor cos(phi)	0,83	0,84	0,83	0,85
Efficiency, 100/75/50 (%)	92,1/ 92,4 /91,8	92,1/ 92,4 /91,8	92,1/ 92,4 /91,8	91,5/ 91,9 /91,2
Ist/In	9,05	8,00	9,05	8,35
Full load torque (Nm)	97,0	94,0	97,0	94,0
Tst/Tn	3,15	2,95	3,15	2,75
Tmax/Tn	3,40	3,15	3,40	2,95
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45