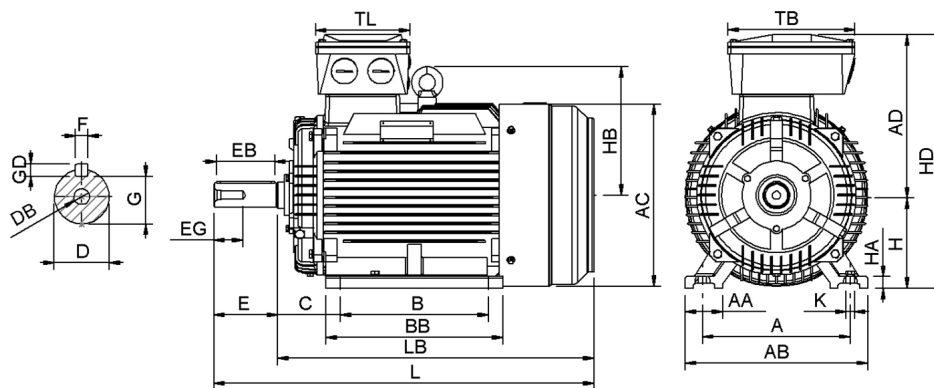


Data Sheet

Itemnumber.....: 5521602100



A = 254	AC = 313	BB = 304	DB = M16	EG = 36	GD = 8	HB = 221	L = 654	TL = 162
AA = 65	AD = 276	C = 108	E = 110	F = 12	H = 160	HD = 436	LB = 544	
AB = 314	B = 254	D = 42	EB = 100	G = 37	HA = 20	K = 14,50	TB = 218	

Version

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

Electrical design

Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 18,5
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 18,5
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).....: 150

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

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).....: 0,083
Noise level (dB(A)).....: 78
No load current (A).....: 9,45
Winding resist. (ohm).....: 0,34
Starting time (sec.).....: 0,13
Temp. rise winding (K).....: 59
Temp. rise surface (K).....: 38

Rated power (kW)	18,5	18,0	22,2	21,6
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)	32,0 18,6	33,0 19,0	32,0 18,6	33,0
Speed (rpm)	2960	2960	3550	3550
Power factor cos(phi)	0,91	0,91	0,91	0,91
Efficiency, 100/75/50 (%)	92,4/ 92,4 /91,3	92,4/ 92,4 /91,3	92,4/ 92,4 /91,3	91,9/ 91,9 /90,7
Ist/In	10,6	9,40	10,6	9,85
Full load torque (Nm)	60,0	58,0	60,0	58,0
Tst/Tn	3,20	3,00	3,20	2,80
Tmax/Tn	4,30	4,00	4,30	3,75
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45