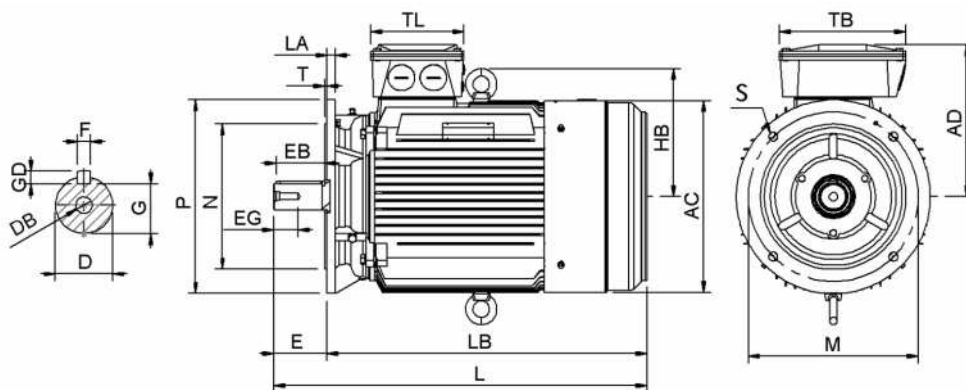


Data Sheet

Itemnumber....: 5541601250



AC = 313	DB = M16	EG = 36	GD = 8	L = 654	LE = 639	P = 350	TB = 218
AD = 276	E = 110	F = 12	H = 160	LA = 14	M = 300	S = 4-Ø18.5	TL = 162
D = 42	EB = 100	G = 37	HB = 221	LB = 544	N = 250	T = 5	

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.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 15,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

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).....: 151

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
Connection type.....: Star (Y)
Terminal board thread.....: 6-M6

Test values

Rotor inertia (kgm²).....: 0,13
Noise level (dB(A)).....: 70
No load current (A).....: 12,0
Winding resist. (ohm).....: 0,19
Starting time (sec.).....: 0,08
Temp. rise winding (K).....: 66
Temp. rise surface (K).....: 40

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 Gloss 10
Nameplate.....: Multivoltage
Special packing.....: No
Special requirements.....: No

Rated power (kW)	15,0	14,6	18,0	17,4
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)	49,5 28,5	51,0 29,5	49,5 28,5	29,5
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	91,6/91,9/91,2
Ist/In	9,1	8	9,1	8,4
Full load torque (Nm)	97,0	94,0	97,0	94,0
Tst/Tn	3,2	3,0	3,2	2,8
Tmax /Tn	3,4	3,2	3,4	3,0
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45