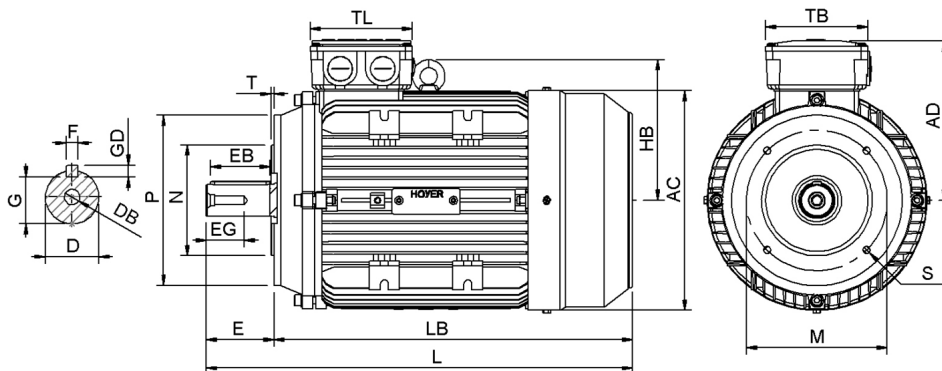


Data Sheet

Itemnumber.....: 5520901309



AC = 175	DB = M8	EG = 24	GD = 7	M = 115	S = 4-M8	TL = 100
AD = 132	E = 50	F = 8	L = 362	N = 95	T = 3	
D = 24	EB = 40	G = 20	LB = 312	P = 140	TB = 100	

Version

Type.....: HMA3 90L-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 2,20
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 2,20
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 90
Mounting.....: B14
B14 M measure.....: 115
Rain cap.....: No
Protection class.....: IP55
Cooling method.....: IC411/TEFC
External grounding.....: Yes
Drain hole.....: Yes
Frame material.....: Aluminium
Material approval.....: None
Shaft.....: IEC standard
Key.....: Closed key
Balancing.....: Half key balancing
Vibration class.....: Grade-A
Weight (kg).....: 18,6

Environment condition

Ambient temp. min. (°C).....: -20
Ambient temp. max. (°C).....: 40
Altitude (mtr up to).....: 1000

Bearing

DE Bearing.....: 6205-ZZ/C3
NDE Bearing.....: 6205-ZZ/C3
Fixed bearing.....: DE

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M20x1,5
Plastic blindcaps
Accessory.....: NA
Terminal board thread.....: 6-M4

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).....: 0,0028
Noise level (dB(A)).....: 62
No load current (A).....: 2,18
Winding resist. (ohm).....: 2,08
Starting time (sec.).....: 0,04
Temp. rise winding (K).....: 56
Temp. rise surface (K).....: 30

Rated power (kW)	2,20	2,14	2,65	2,55
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)	7,70 4,40	7,90 4,55	7,70 4,40	4,55
Speed (rpm)	2920	2920	3500	3500
Power factor cos(phi)	0,84	0,84	0,84	0,85
Efficiency, 100/75/50 (%)	85,9/ 86,8 /86,2	85,9/ 86,8 /86,2	85,9/ 86,8 /86,2	84,9/ 85,9 /85,2
Ist/In	9,10	8,00	9,10	8,40
Full load torque (Nm)	7,20	7,00	7,20	7,00
Tst/Tn	3,25	3,05	3,25	2,80
Tmax/Tn	3,50	3,25	3,50	3,05
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45