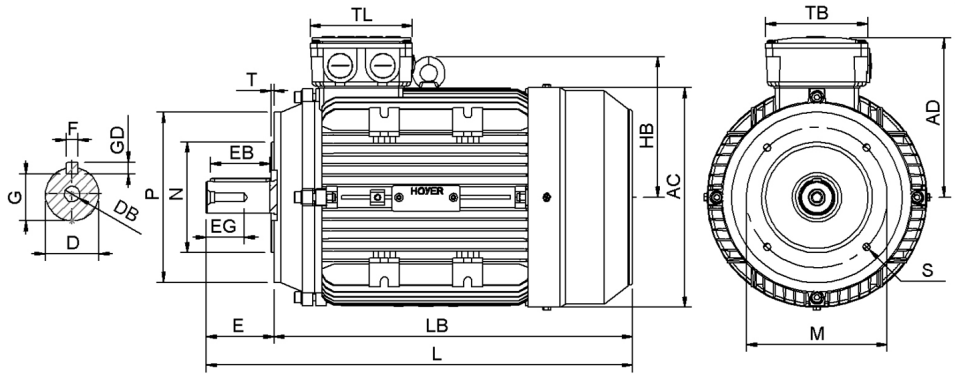
Data Sheet

Itemnumber....: 5540901309



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

Electrical design
Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 1,50
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 1,50
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.....: 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).....: 21,6

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

Test values
Rotor inertia (kgm²).....: 0,0049
Noise level (dB(A)).....: 54
No load current (A).....: 2,20
Winding resist. (ohm).....: 2,12
Starting time (sec.).....: 0,03
Temp. rise winding (K).....: 44
Temp. rise surface (K).....: 36

Rated power (kW)	1,50	1,46	1,80	1,74
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)	5,95 3,40	6,15 3,50	5,95 3,40	3,50
Speed (rpm)	1450	1450	1730	1730
Power factor cos(phi)	0,74	0,75	0,74	0,77
Efficiency, 100/75/50 (%)	85,3/ 85,0 /82,5	85,3/ 85,0 /82,5	85,3/ 85,0 /82,5	84,3/ 83,9 /81,3
Ist/In	8,20	7,20	8,20	7,55
Full load torque (Nm)	9,85	9,55	9,85	9,55
Tst/Tn	2,85	2,65	2,85	2,46
Tmax/Tn	3,00	2,80	3,00	2,60
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45

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.