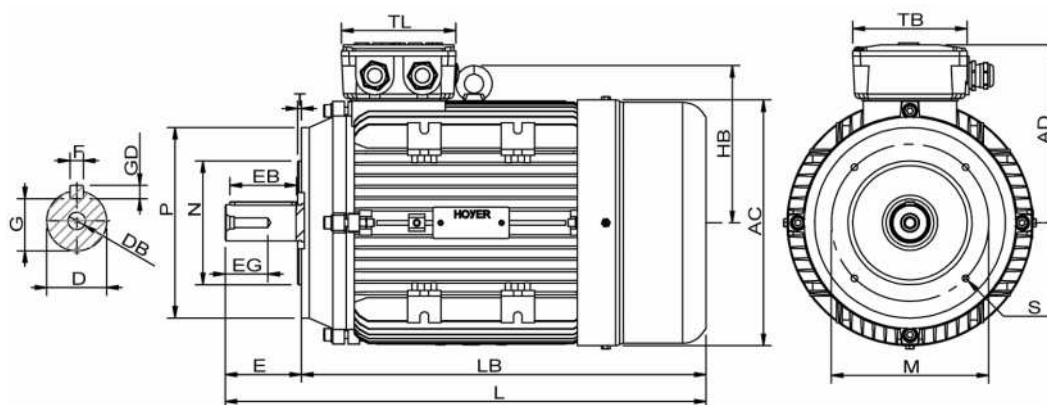


Data Sheet

Itemnumber....: 3240901309



AC = 175	DB = M8	EG = 24	GD = 7	LB = 312	P = 140	TB = 100
AD = 132	E = 50	F = 8	H = 90	M = 115	S = 4-M8	TL = 100
D = 24	EB = 40	G = 20	L = 362	N = 95	T = 3	

Version

Type.....: HMA2 90L-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE2
Pole.....: 4
Power at 50 Hz (kW).....: 1,50
Hz.....: 60 (60 Hz output)
Voltage.....: 440VY 60 Hz
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 1,74
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

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.....: 1 x M20x1,5
Ø8-13mm metal
Accessory.....: 1 x M20x1,5
Metal blindcap
Connection type.....: Star (Y)
Terminal board thread.....: 6-M4

Test values

Rotor inertia (kgm²).....: 0,0041
Noise level (dB(A)).....: 58
No load current (A).....: 1,70
Winding resist. (ohm).....: 2,64
Starting time (sec.).....: 0,00
Temp. rise winding (K).....: 67
Temp. rise surface (K).....: 59

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.....: Yes

Explosion protection

According to.....: None

General

Direction of rotation.....: CW
Painting.....: RAL 9005 Gloss 10
Nameplate.....: Multivoltage + VFD
Special packing.....: No
Special requirements.....: No

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)	5,65 3,25	5,85 3,35	5,65 3,25	3,35
Speed (rpm)	1440	1440	1730	1730
Power factor cos(phi)	0,81	0,82	0,81	0,81
Efficiency, 100/75/50 (%) . .	82,9/83,8/82,8	82,9/83,8/82,8	82,9/83,8/82,8	81,7/82,7/81,6
Ist/In	7,95	7,00	7,95	7,35
Full load torque (Nm)	9,95	9,65	9,95	9,65
Tst/Tn	2,50	2,32	2,50	2,16
Tmax/Tn	3,10	2,90	3,10	2,70
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45