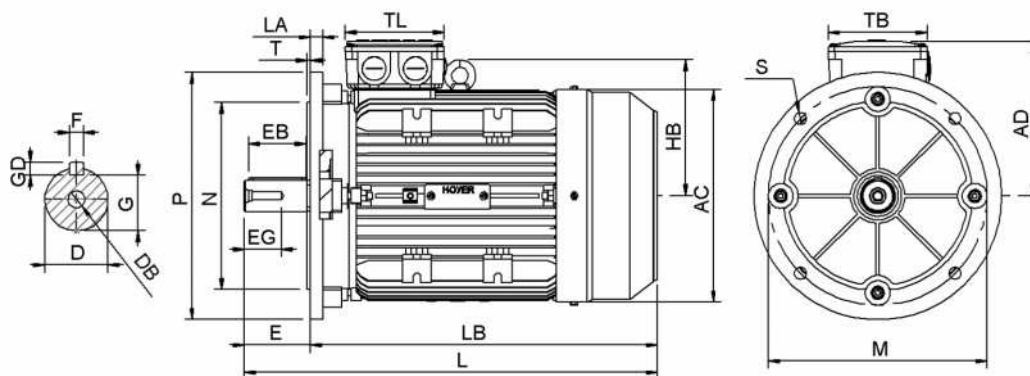


Data Sheet

Itemnumber....: 5540901209



AC = 175	DB = M8	EG = 24	GD = 7	LA = 10	M = 165	S = 4-Ø12	TL = 100
AD = 132	E = 50	F = 8	H = 90	LB = 312	N = 130	T = 3,50	
D = 24	EB = 40	G = 20	L = 362	LE = 345	P = 200	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

Mechanical design

Frame size.....: 90
Mounting.....: B5
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).....: 18,5

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
Connection type.....: Star (Y)
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

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)	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)	6,00 3,45	6,15 3,55	6,00 3,45	3,55
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	84,3/84,0/81,3
Ist/In	8,2	7,2	8,2	7,6
Full load torque (Nm)	9,85	9,55	9,85	9,55
Tst/Tn	2,9	2,7	2,9	2,5
Tmax /Tn	3	2,8	3	2,6
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45