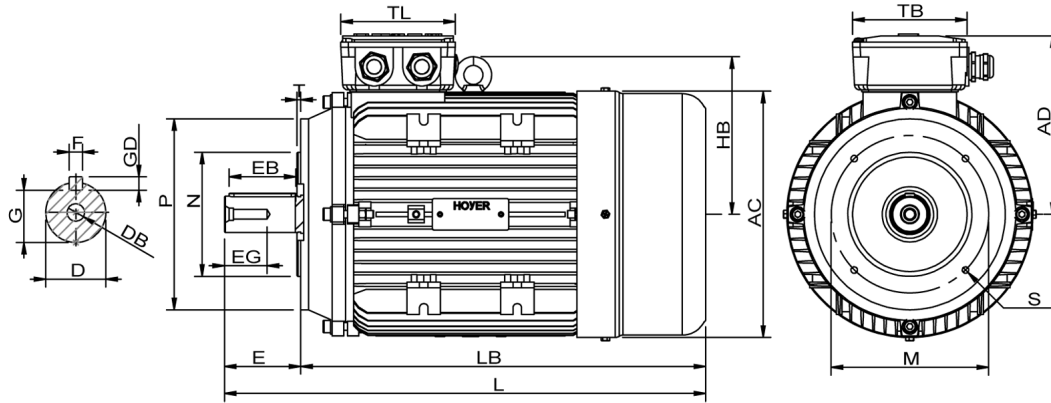


# Data Sheet

Itemnumber....: 3240901309



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	

<p><b>Version</b>                  Type.....: HMA2 90L-4                  Design.....: Induction motor                  Standard series.....: IEC 60034                  Phase / Voltage range.....: 3~ / Low</p> <p><b>Electrical design</b>                  Efficiency.....: IE2                  Pole.....: 4                  Power at 50 Hz (kW).....: 1,50                  Hz.....: 60 (60 Hz output)                  Voltage.....: 440VY                  Winding voltage.....: 230VD/400VY 50 Hz                  Power output (kW).....: 1,74                  Duty.....: S1                  Insulation class.....: F                  Temperature rise.....: B</p> <p><b>Motor protection</b>                  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</p> <p><b>Explosion protection</b>                  According to.....: None                  Type of protection.....: None</p> <p><b>General</b>                  Direction of rotation.....: CW                  Painting.....: RAL 9005                  Nameplate.....: Multivoltage + VFD                  Special packing.....: No                  Special requirements.....: No</p>	<p><b>Mechanical design</b>                  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).....: 18,0</p> <p><b>Environment condition</b>                  Ambient temp. min. (°C)..: -20                  Ambient temp. max. (°C)..: 45                  Altitude (mtr up to).....: 1000</p>	<p><b>Bearing</b>                  DE Bearing.....: 6205-ZZ/C3                  NDE Bearing.....: 6205-ZZ/C3                  Fixed bearing.....: DE</p> <p><b>Terminal box</b>                  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                  Terminal board thread.....: 6-M4</p> <p><b>Test values</b>                  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</p>
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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	5,80 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 (%)	82,8/ 83,7 /82,7	82,8/ 83,7 /82,7	82,8/ 83,7 /82,7	81,6/ 82,6 /81,5
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