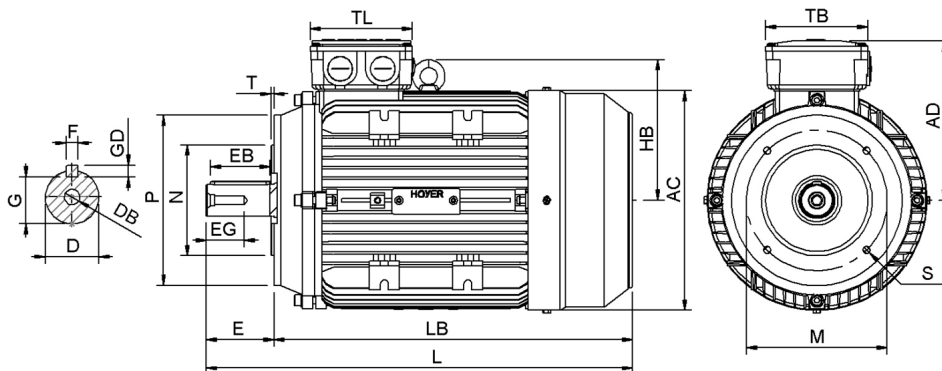


Data Sheet

Itemnumber.....: 5540900309



AC = 175	DB = M8	EG = 24	GD = 7	M = 115	S = 4-M8	TL = 100
AD = 132	E = 50	F = 8	L = 328	N = 95	T = 3	
D = 24	EB = 40	G = 20	LB = 278	P = 140	TB = 100	

Version

Type.....: HMA3 90S-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 1,10
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 1,10
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).....: 16,5

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
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).....: 0,0037
Noise level (dB(A)).....: 54
No load current (A).....: 1,52
Winding resist. (ohm).....: 3,45
Starting time (sec.).....: 0,03
Temp. rise winding (K).....: 41
Temp. rise surface (K).....: 30

Rated power (kW)	1,10	1,06	1,32	1,28
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)	4,30 2,48	4,45 2,55	4,30 2,48	2,55
Speed (rpm)	1450	1450	1740	1740
Power factor cos(phi)	0,76	0,77	0,76	0,78
Efficiency, 100/75/50 (%)	84,1/ 83,9 /81,3	84,1/ 83,9 /81,3	84,1/ 83,9 /81,3	83,0/ 82,7 /80,0
Ist/In	8,05	7,05	8,05	7,40
Full load torque (Nm)	7,25	7,05	7,25	7,05
Tst/Tn	2,85	2,65	2,85	2,48
Tmax/Tn	3,00	2,80	3,00	2,60
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45