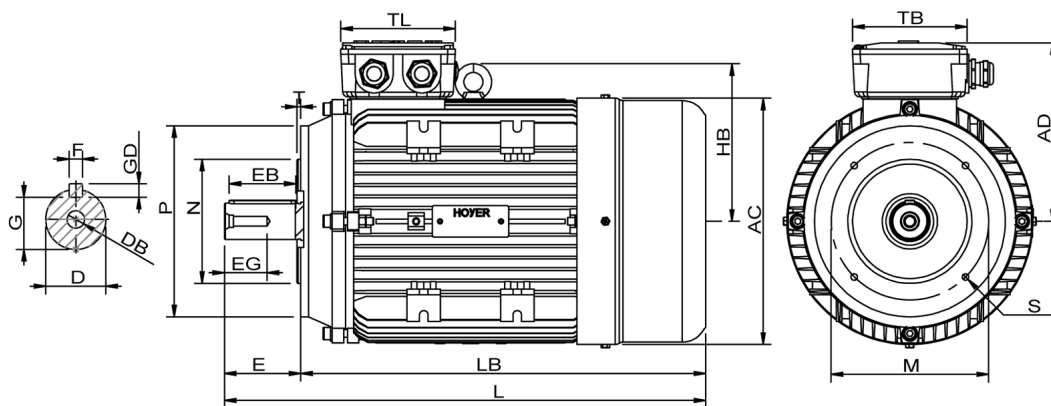


Data Sheet

Itemnumber.....: 3220801309



AC = 159	DB = M6	EG = 16	GD = 6	M = 100	S = 4-M6	TL = 100
AD = 126	E = 40	F = 6	L = 294	N = 80	T = 3	
D = 19	EB = 32	G = 15,50	LB = 254	P = 120	TB = 100	

Version

Type.....: HMA2 80 2-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE2
Pole.....: 2
Power at 50 Hz (kW).....: 1,10
Hz.....: 60 (60 Hz output)
Voltage.....: 440VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 1,28
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 80
Mounting.....: B14
B14 M measure.....: 100
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).....: 11,0

Environment condition

Ambient temp. min. (°C).....: -20
Ambient temp. max. (°C).....: 45
Altitude (mtr up to).....: 1000

Bearing

DE Bearing.....: 6204-ZZ/C3
NDE Bearing.....: 6204-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
Terminal board thread.....: 6-M4

Test values

Rotor inertia (kgm²).....: 0,0012
Noise level (dB(A)).....: 62
No load current (A).....: 1,26
Winding resist. (ohm).....: 5,11
Starting time (sec.).....: 0,00
Temp. rise winding (K).....: 47
Temp. rise surface (K).....: 38

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
Type of protection.....: None

General

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

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)	4,20 2,42	4,30 2,48	4,20 2,42	2,48
Speed (rpm)	2900	2900	3480	3480
Power factor cos(phi)	0,83	0,84	0,83	0,86
Efficiency, 100/75/50 (%)	79,6/ 80,8 /80,1	79,6/ 80,8 /80,1	79,6/ 80,8 /80,1	78,2/ 79,5 /78,7
Ist/In	8,20	7,20	8,20	7,55
Full load torque (Nm)	3,60	3,50	3,60	3,50
Tst/Tn	3,25	3,00	3,25	2,80
Tmax/Tn	3,80	3,55	3,80	3,30
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45