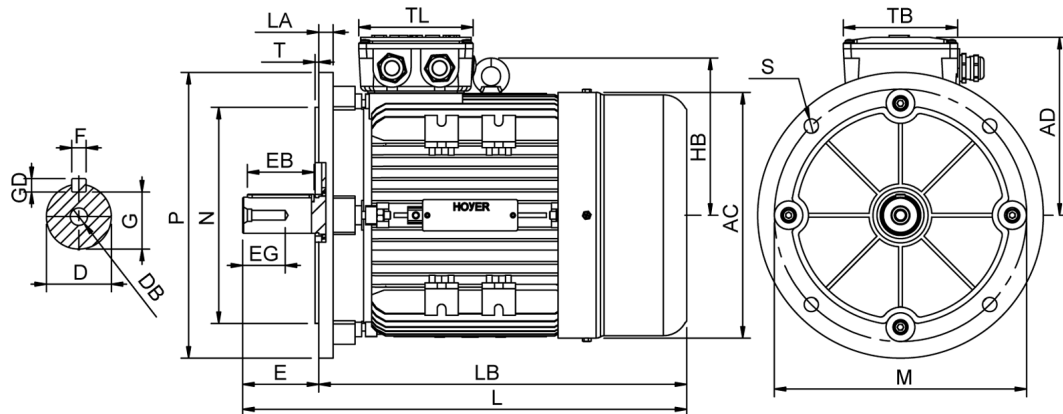


Data Sheet

Itemnumber....: 32411202509



AC = 219	DB = M10	EG = 28	GD = 7	LA = 14	N = 180	T = 4
AD = 168	E = 60	F = 8	HB = 145	LB = 345	P = 250	TB = 120
D = 28	EB = 50	G = 24	L = 405	M = 215	S = 4-Ø15	TL = 120

Version

Type.....: HMA2 112M1-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE2
Pole.....: 4
Power at 50 Hz (kW).....: 4,00
Hz.....: 60 (60 Hz output)
Voltage.....: 440VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 4,65
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 112
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).....: 37,0

Environment condition

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

Bearing

DE Bearing.....: 6306-ZZ/C3
NDE Bearing.....: 6306-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-M5

Test values

Rotor inertia (kgm²).....: 0,015
Noise level (dB(A)).....: 62
No load current (A).....: 4,75
Winding resist. (ohm).....: 1,01
Starting time (sec.).....: 0,00
Temp. rise winding (K).....: 58
Temp. rise surface (K).....: 54

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)	4,00	3,90	4,80	4,65
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)	14,6 8,35	15,0 8,60	14,6 8,35	8,60
Speed (rpm)	1460	1460	1750	1750
Power factor cos(phi)	0,80	0,81	0,80	0,86
Efficiency, 100/75/50 (%) . .	86,6/ 86,9 /85,6	86,6/ 86,9 /85,6	86,6/ 86,9 /85,6	85,7/ 86,0 /84,6
Ist/In	8,75	7,70	8,75	8,05
Full load torque (Nm)	26,0	25,5	26,0	25,5
Tst/Tn	3,00	2,80	3,00	2,60
Tmax/Tn	3,50	3,25	3,50	3,05
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45