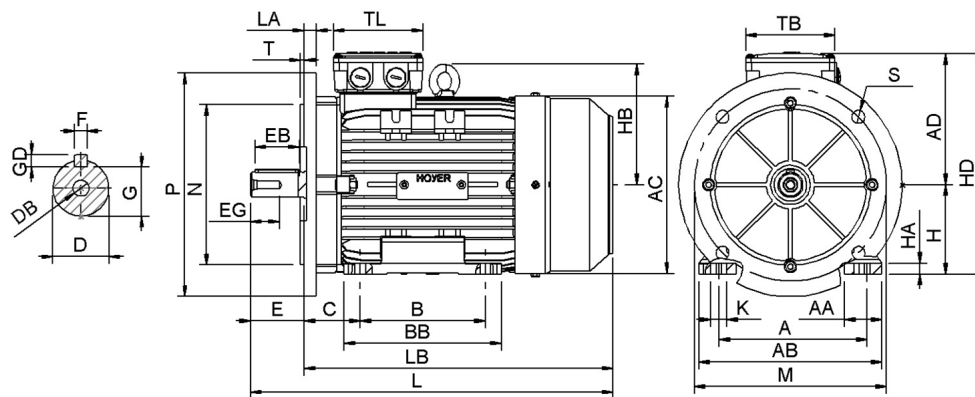


Data Sheet

Itemnumber..... 5521120409



A = 190	AC = 219	BB = 180	DB = M10	EG = 28	GD = 7	HB = 145	L = 390	M = 215	S = 4-Ø14,5	TL = 120
AA = 45	AD = 168	C = 70	E = 60	F = 8	H = 112	HD = 280	LA = 14	N = 180	T = 4	
AB = 222	B = 140	D = 28	EB = 50	G = 24	HA = 13	K = 12	LB = 330	P = 250	TB = 120	

Version

Type..... HMA3 112M-2
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE3
Pole..... 2
Power at 50 Hz (kW)..... 4,00
Hz..... 50
Voltage..... 400VD/690VY
Winding voltage..... 400VD/690VY 50 Hz
Power output (kW)..... 4,00
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 112
Mounting..... B35
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)..... 33,9

Environment condition

Ambient temp. min. (°C)..... -20
Ambient temp. max. (°C)..... 40
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..... 2 x M20x1,5
Plastic blindcaps
Accessory..... 1 x M20x1,5
Plastic blindcap
Terminal board thread..... 6-M5

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)..... 0,0070
Noise level (dB(A))..... 67
No load current (A)..... 2,12
Winding resist. (ohm)..... 2,90
Starting time (sec.)..... 0,07
Temp. rise winding (K)..... 55
Temp. rise surface (K)..... 33

Rated power (kW)	4,00	3,90	4,80	4,65
Frequency (Hz)	50	50	60	60
Voltage (V)	400 690	380 660	480 830	440
Connection	D Y	D Y	D Y	D
Full load current (A)	7,15 4,15	7,35 4,25	7,15 4,15	7,35
Speed (rpm)	2910	2910	3500	3500
Power factor cos(phi)	0,92	0,92	0,92	0,92
Efficiency, 100/75/50 (%)	88,1/ 88,5 /87,5	88,1/ 88,5 /87,5	88,1/ 88,5 /87,5	87,3/ 87,7 /86,7
Ist/In	8,70	7,65	8,70	8,00
Full load torque (Nm)	13,2	12,8	13,2	12,8
Tst/Tn	2,60	2,42	2,60	2,26
Tmax/Tn	3,00	2,80	3,00	2,60
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45