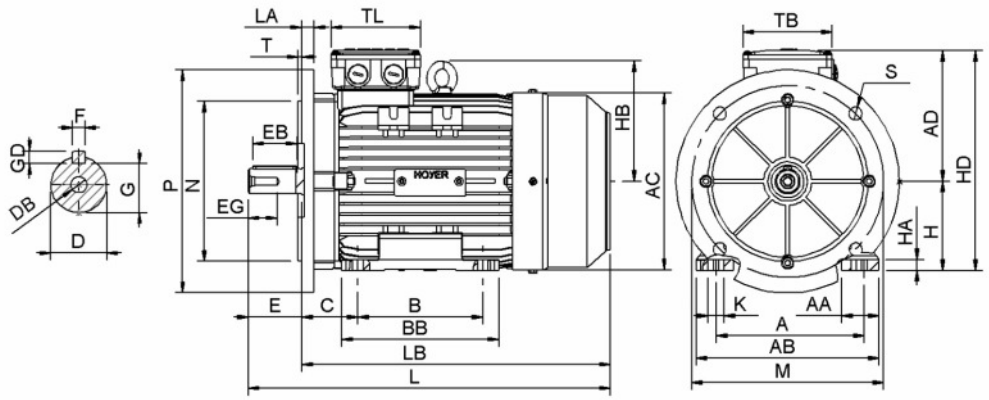
Data Sheet

Itemnumber....: 5521120409



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

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 Gloss 10
Nameplate.....: Multivoltage
Special packing.....: No
Special requirements.....: No

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).....: 34,0

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.....: NA
Connection type.....: Delta (D)
Terminal board thread.....: 6-M5

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	4,80	
Frequency (Hz)	:	50	60	
Voltage (V)	:	400 690	480 830	
Connection	:	D Y	D Y	
Full load current (A)	:	7,20 4,15	7,20 4,15	
Speed (rpm)	:	2910	3500	
Power factor cos(phi)	:	0,92	0,92	
Efficiency, 100/75/50 (%)	:	88,4/88,9/87,9	88,4/88,9/87,9	
Ist/In	:	8,70	8,70	
Full load torque (Nm)	:	13,2	13,2	
Tst/Tn	:	2,60	2,60	
Tmax/Tn	:	3,00	3,00	
Duty	:	S1	S1	
Ambient temp. (°C)	:	40	40	

Data are not binding. Hoyer reserves the right to implement changes without notice. The extent of data are not equivalent to nameplate on the motors.