

Data Sheet

Itemnumber.....: 5541120109



A = 190	AC = 219	BB = 180	DB = M10	EG = 28	GD = 7	HB = 145	L = 430	TL = 120
AA = 45	AD = 168	C = 70	E = 60	F = 8	H = 112	HD = 280	LB = 370	
AB = 222	B = 140	D = 28	EB = 50	G = 24	HA = 13	K = 12	TB = 120	

Version

Type.....: HMA3 112M-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
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.....: B3
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).....: 41,5

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).....: 0,016
Noise level (dB(A)).....: 58
No load current (A).....: 3,90
Winding resist. (ohm).....: 2,83
Starting time (sec.).....: 0,04
Temp. rise winding (K).....: 54
Temp. rise surface (K).....: 47

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)	7,85 4,55	8,10 4,70	7,85 4,55	8,10
Speed (rpm)	1460	1460	1750	1750
Power factor cos(phi)	0,83	0,84	0,83	0,85
Efficiency, 100/75/50 (%)	88,6/ 89,1 /88,2	88,6/ 89,1 /88,2	88,6/ 89,1 /88,2	87,8/ 88,3 /87,4
Ist/In	9,35	8,25	9,35	8,60
Full load torque (Nm)	26,0	25,5	26,0	25,5
Tst/Tn	3,10	2,90	3,10	2,70
Tmax/Tn	3,30	3,05	3,30	2,85
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45