

Data Sheet

Itemnumber....: 3222250109



A = 356	AC = 445	BB = 393	DB = M20	EG = 56	GD = 10	HB = 286	L = 802	TL = 192
AA = 75	AD = 336	C = 149	E = 110	F = 16	H = 225	HD = 561	LB = 692	
AB = 431	B = 311	D = 55	EB = 90	G = 49	HA = 28	K = 18,50	TB = 260	

Version

Type.....: HMC2 225M-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

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Efficiency.....: IE2
Pole.....: 2
Power at 50 Hz (kW).....: 45,0
Hz.....: 60 (60 Hz output)
Voltage.....: 440VD
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 52,5
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

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Mechanical design

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Mechanical design.....: 225
Mounting.....: B3
Rain cap.....: No
Protection class.....: IP55
Cooling method.....: IC411/TEFC
External grounding.....: Yes
Drain hole.....: Yes
Frame material.....: Cast Iron
Material approval.....: None
Shaft.....: IEC Standard
Key.....: Closed key
Balancing.....: Half key balancing
Vibration class.....: Grade-A
Weight (kg).....: 305

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Environment condition

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

Bearing
DE Bearing.....: 6312-ZZ/C3
NDE Bearing.....: 6312-ZZ/C3
Fixed bearing.....: DE

Terminal box

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Thox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
    Main.....: 2 x M50x1,5
                  Ø32-38mm metal
    Accessory.....: 2 x M20x1,5
                  Metal blindcaps
Terminal board thread.....: 6-M8

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Motor protection

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Thermal protection main....: PTC 3x 155 dgr
Thermal protection second..: None
Space heater.....: 1x 230V 80W
Temperature detector.....: No
SPM.....: No
IR wire.....: No
Tropical insulation.....: Yes

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Explosion protection

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According to.....: None
Type of protection.....: None

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General

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

Rated power (kW)	45,0	43,5	54,0	52,5
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)	77,0 44,5	79,5 46,0	77,0 44,5	81,5
Speed (rpm)	2970	2970	3550	3550
Power factor cos(phi)	0,91	0,91	0,91	0,91
Efficiency, 100/75/50 (%)	92,9/ 93,0 /93,1	92,9/ 93,0 /93,1	92,9/ 93,0 /93,1	92,5/ 92,6 /92,8
Ist/In	8,30	7,30	8,30	7,65
Full load torque (Nm)	144	140	144	140
Tst/Tn	2,80	2,60	2,80	2,40
Tmax/Tn	3,60	3,35	3,60	3,15
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45