

Data Sheet

Itemnumber..... 3242251109



A = 356	AC = 445	BB = 393	DB = M20	EG = 56	GD = 11	HB = 286	L = 832	TL = 192
AA = 75	AD = 336	C = 149	E = 140	F = 18	H = 225	HD = 561	LB = 692	
AB = 431	B = 311	D = 60	EB = 110	G = 53	HA = 28	K = 18,50	TB = 260	

Version

Type..... HMC2 225M-4
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE2
Pole..... 4
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

Mechanical design

Frame size..... 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)..... 330

Environment condition

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

Bearing

DE Bearing..... 6313-ZZ/C3
NDE Bearing..... 6312-ZZ/C3
Fixed bearing..... DE

Terminal box

Tbox 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

Motor protection

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

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

Test values

Rotor inertia (kgm²)..... 0,57
Noise level (dB(A))..... 68
No load current (A)..... 23,0
Winding resist. (ohm)..... 0,16
Starting time (sec.)..... 0,13
Temp. rise winding (K)..... 77
Temp. rise surface (K)..... 60

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)	77,5 45,0	79,5 46,0	77,5 45,0	81,5
Speed (rpm)	1480	1480	1770	1770
Power factor cos(phi)	0,90	0,91	0,90	0,91
Efficiency, 100/75/50 (%)	93,1/ 93,0 /92,5	93,1/ 93,0 /92,5	93,1/ 93,0 /92,5	92,6/ 92,5 /92,0
Ist/In	7,45	6,60	7,45	6,90
Full load torque (Nm)	290	280	290	280
Tst/Tn	2,48	2,32	2,48	2,16
Tmax/Tn	3,25	3,00	3,25	2,80
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45