

Data Sheet

Itemnumber..... 3242501109



A = 406	AC = 505	BB = 450	DB = M20	EG = 56	GD = 11	HB = 361	L = 1018	TL = 230
AA = 80	AD = 390	C = 168	E = 140	F = 18	H = 250	HD = 640	LB = 878	
AB = 484	B = 349	D = 65	EB = 110	G = 58	HA = 30	K = 24	TB = 305	

Version

Type..... HMC2 250M1-4
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE2
Pole..... 4
Power at 50 Hz (kW)..... 75,0
Hz..... 60 (60 Hz output)
Voltage..... 440VD
Winding voltage..... 400VD/690VY 50 Hz
Power output (kW)..... 87,5
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 250M1
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)..... 521

Environment condition

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

Bearing

DE Bearing..... 6315/C3
NDE Bearing..... 6314/C3
Fixed bearing..... DE

Terminal box

Tbox position..... Top
Cable entry direction..... Right (from DE)
Cable entry
Main..... 2 x M63x1,5
Ø37-44mm metal
Accessory..... 2 x M20x1,5
Metal blindcaps
Terminal board thread..... 6-M10

Test values

Rotor inertia (kgm²)..... 1,04
No load current (A)..... 44,5
Winding resist. (ohm)..... 0,070
Starting time (sec.)..... 0,17

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

Rated power (kW)	75,0	73,0	90,0	87,5
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)	130 75,5	134 77,5	130 75,5	136
Speed (rpm)	1480	1480	1780	1780
Power factor cos(phi)	0,89	0,89	0,89	0,90
Efficiency, 100/75/50 (%)	94,0/ 94,0 /93,4	94,0/ 94,0 /93,4	94,0/ 94,0 /93,4	93,6/ 93,6 /92,9
Ist/In	6,50	5,70	6,50	5,95
Full load torque (Nm)	485	470	485	470
Tst/Tn	2,10	1,96	2,10	1,82
Tmax/Tn	2,85	2,65	2,85	2,46
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45