

Data Sheet

Itemnumber..... 3263151109



A = 508	AC = 620	BB = 680	DB = M20	EG = 56	GD = 14	HB = 432	L = 1318	TL = 280
AA = 120	AD = 546	C = 216	E = 170	F = 22	H = 315	HD = 861	LB = 1148	
AB = 629	B = 457	D = 80	EB = 140	G = 71	HA = 45	K = 28	TB = 400	

Version

Type..... HMC2 315M-6
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE2
Pole..... 6
Power at 50 Hz (kW)..... 90,0
Hz..... 60 (60 Hz output)
Voltage..... 440VD
Winding voltage..... 400VD/690VY 50 Hz
Power output (kW)..... 104
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 315
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)..... 960

Environment condition

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

Bearing

DE Bearing..... 6319/C3
NDE Bearing..... 6319/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-M16

Motor protection

Thermal protection main..... PTC 3x 155 dgr
Thermal protection second..... None
Space heater..... 1x 230V 100W
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)..... 4,33
Noise level (dB(A))..... 74
No load current (A)..... 66,0
Winding resist. (ohm)..... 0,029
Starting time (sec.)..... 0,25
Temp. rise winding (K)..... 68
Temp. rise surface (K)..... 92

Rated power (kW)	90,0	87,5	108	104
Frequency (Hz)	50	50	60	60
Voltage (V)	400 Y 690	380 660	480 830	440
Connection	D Y	D Y	D Y	D
Full load current (A)	164 95,5	170 98,0	164 95,5	172
Speed (rpm)	990	990	1180	1180
Power factor cos(phi)	0,84	0,85	0,84	0,86
Efficiency, 100/75/50 (%)	94,0/ 93,7 /92,8	94,0/ 93,7 /92,8	94,0/ 93,7 /92,8	93,6/ 93,2 /92,3
Ist/In	6,80	6,00	6,80	6,25
Full load torque (Nm)	870	840	870	840
Tst/Tn	2,48	2,30	2,48	2,14
Tmax/Tn	2,75	2,55	2,75	2,36
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45