

Data Sheet

Itemnumber.....: 5543151102



A = 508	AC = 618	BB = 680	DB = M20	EG = 56	GD = 14	HB = 430	L = 1333	TL = 299
AA = 120	AD = 546	C = 216	E = 170	F = 22	H = 315	HD = 861	LB = 1163	
AB = 628	B = 457	D = 80	EB = 160	G = 71	HA = 45	K = 28	TB = 420	

Version

Type.....: HMC3 315M-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 132
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 132
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).....: 994

Environment condition

Ambient temp. min. (°C)....: -20
Ambient temp. max. (°C)....: 40
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
Plastic blindcaps
Accessory.....: 2 x M20x1,5
Plastic blindcaps
Terminal board thread.....: 6-M16

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).....: 3,91
Noise level (dB(A)).....: 85
No load current (A).....: 61,5
Winding resist. (ohm).....: 0,027
Starting time (sec.).....: 0,33
Temp. rise winding (K).....: 73
Temp. rise surface (K).....: 42

Rated power (kW)	132	128	158	154
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)	220 128	226 130	220 128	226
Speed (rpm)	1490	1490	1790	1790
Power factor cos(phi)	0,91	0,91	0,91	0,92
Efficiency, 100/75/50 (%)	95,6/ 95,7 /94,2	95,6/ 95,7 /94,2	95,6/ 95,7 /94,2	95,3/ 95,4 /93,8
Ist/In	8,10	7,10	8,10	7,45
Full load torque (Nm)	845	820	845	820
Tst/Tn	2,50	2,34	2,50	2,18
Tmax/Tn	2,80	2,60	2,80	2,42
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45