

Data Sheet

Itemnumber.....: 5523151100



A = 508	AC = 618	BB = 680	DB = M20	EG = 56	GD = 11	HB = 430	L = 1303	TL = 299
AA = 120	AD = 546	C = 216	E = 140	F = 18	H = 315	HD = 861	LB = 1163	
AB = 628	B = 457	D = 65	EB = 130	G = 58	HA = 45	K = 28	TB = 420	

Version

Type.....: HMC3 315M-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 2
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).....: 974

Environment condition

Ambient temp. min. (°C).....: -20
Ambient temp. max. (°C).....: 40
Altitude (mtr up to).....: 1000

Bearing

DE Bearing.....: 6317/C3
NDE Bearing.....: 6317/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).....: 1,92
Noise level (dB(A)).....: 86
No load current (A).....: 35,5
Winding resist. (ohm).....: 0,025
Starting time (sec.).....: 0,76
Temp. rise winding (K).....: 73
Temp. rise surface (K).....: 48

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)	216 124	222 128	216 124	222
Speed (rpm)	2970	2970	3570	3570
Power factor cos(phi)	0,93	0,94	0,93	0,94
Efficiency, 100/75/50 (%)	95,4/ 95,6 /95,2	95,4/ 95,6 /95,2	95,4/ 95,6 /95,2	95,1/ 95,3 /94,9
Ist/In	7,00	6,15	7,00	6,40
Full load torque (Nm)	425	410	425	410
Tst/Tn	2,02	1,88	2,02	1,74
Tmax/Tn	2,70	2,50	2,70	2,34
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45