

Data Sheet

Itemnumber.....: 5563151100



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-6
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 6
Power at 50 Hz (kW).....: 90,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 90,0
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).....: 970

Environment condition

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

Bearing

DE Bearing.....: NU319/C3
NDE Bearing.....: 6319/C3
Fixed bearing.....: NDE

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).....: 4,62
Noise level (dB(A)).....: 76
No load current (A).....: 40,5
Winding resist. (ohm).....: 0,048
Starting time (sec.).....: 0,36
Temp. rise winding (K).....: 58
Temp. rise surface (K).....: 49

Rated power (kW)	90,0	87,5	108	104
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)	156 90,5	160 93,0	156 90,5	160
Speed (rpm)	990	990	1180	1180
Power factor cos(phi)	0,88	0,89	0,88	0,89
Efficiency, 100/75/50 (%)	94,9/ 95,5 /94,8	94,9/ 95,5 /94,8	94,9/ 95,5 /94,8	94,5/ 95,2 /94,4
Ist/In	5,70	5,00	5,70	5,25
Full load torque (Nm)	870	845	870	845
Tst/Tn	1,86	1,74	1,86	1,62
Tmax/Tn	2,20	2,04	2,20	1,90
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45