

Data Sheet

Itemnumber....: 3243152199



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 = 628	B = 508	D = 80	EB = 140	G = 71	HA = 45	K = 28	TB = 400	

Version

Type.....: HMC2 315L1-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE2
Pole.....: 4
Power at 50 Hz (kW).....: 160
Hz.....: 60 (60 Hz output)
Voltage.....: 690V
Winding voltage.....: 690V 60 Hz
Power output (kW).....: 186
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).....: 982

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.....: Yes
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).....: 3,71
Noise level (dB(A)).....: 79
No load current (A).....: 49,5
Winding resist. (ohm).....: 0,031
Starting time (sec.).....: 0,22
Temp. rise winding (K).....: 61
Temp. rise surface (K).....: 44

Rated power (kW)	160	192	186
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A)	192	192	186
Speed (rpm)	1480	1780	1780
Power factor cos(phi)	0,89	0,89	0,89
Efficiency, 100/75/50 (%)	94,9/ 94,8 /94,0	94,9/ 94,8 /94,0	94,9/ 94,8 /94,0
Ist/In	7,40	7,40	7,65
Full load torque (Nm)	1.020	1.020	995
Tst/Tn	2,90	2,90	3,00
Tmax/Tn	3,20	3,20	3,30
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45