

# Data Sheet

Itemnumber..... 3243150199



A = 508	AC = 620	BB = 570	DB = M20	EG = 56	GD = 14	HB = 432	L = 1208	TL = 280
AA = 120	AD = 546	C = 216	E = 170	F = 22	H = 315	HD = 861	LB = 1038	
AB = 628	B = 406	D = 80	EB = 140	G = 71	HA = 45	K = 28	TB = 400	

## Version

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

## Electrical design

Efficiency..... IE2  
Pole..... 4  
Power at 50 Hz (kW)..... 110  
Hz..... 60 (60 Hz output)  
Voltage..... 690VD  
Winding voltage..... 690VD 60 Hz  
Power output (kW)..... 128  
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)..... 840

## 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)..... 2,87  
Noise level (dB(A))..... 81  
No load current (A)..... 32,0  
Winding resist. (ohm)..... 0,050  
Starting time (sec.)..... 0,28  
Temp. rise winding (K)..... 55  
Temp. rise surface (K)..... 21

Rated power (kW)	110	132	128
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A)	132	132	128
Speed (rpm)	1490	1780	1780
Power factor cos(phi)	0,89	0,89	0,89
Efficiency, 100/75/50 (%)	94,5/ 94,7 / 93,9	94,5/ 94,7 / 93,9	94,5/ 94,7 / 93,9
Ist/In	6,85	6,85	7,10
Full load torque (Nm)	705	705	685
Tst/Tn	2,50	2,50	2,60
Tmax/Tn	3,05	3,05	3,10
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45