

# Data Sheet

Itemnumber..... 3221000299



AC = 198	DB = M10	EG = 28	GD = 7	LA = 14	N = 180	T = 4
AD = 147	E = 60	F = 8	HB = 135	LB = 341	P = 250	TB = 100
D = 28	EB = 50	G = 24	L = 401	M = 215	S = 4-Ø15	TL = 100

## Version

Type..... HMA2 100L-2  
Design..... Induction motor  
Standard series..... IEC 60034  
Phase / Voltage range..... 3~ / Low

## Electrical design

Efficiency..... IE2  
Pole..... 2  
Power at 50 Hz (kW)..... 3,00  
Hz..... 60 (60 Hz output)  
Voltage..... 400VD/690VY  
Winding voltage..... 400VD/690VY 60 Hz  
Power output (kW)..... 3,50  
Duty..... S1  
Insulation class..... F  
Temperature rise..... B

## Mechanical design

Frame size..... 100  
Mounting..... B5  
Rain cap..... No  
Protection class..... IP55  
Cooling method..... IC411/TEFC  
External grounding..... Yes  
Drain hole..... Yes  
Frame material..... Aluminium  
Material approval..... None  
Shaft..... IEC Standard  
Key..... Closed key  
Balancing..... Half key balancing  
Vibration class..... Grade-A  
Weight (kg)..... 23,0

## Environment condition

Ambient temp. min. (°C)..... -20  
Ambient temp. max. (°C)..... 45  
Altitude (mtr up to)..... 1000

## Bearing

DE Bearing..... 6206-ZZ/C3  
NDE Bearing..... 6206-ZZ/C3  
Fixed bearing..... DE

## Terminal box

Tbox position..... Top  
Cable entry direction..... Right (from DE)  
Cable entry  
Main..... 1 x M20x1,5  
Ø8-13mm metal  
Accessory..... 1 x M20x1,5  
Metal blindcap  
Terminal board thread..... 6-M4

## Motor protection

Thermal protection main..... PTC 3x 155 dgr  
Thermal protection second.. None  
Space heater..... None  
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)..... 0,0041  
Noise level (dB(A))..... 69  
No load current (A)..... 2,42  
Winding resist. (ohm)..... 3,26  
Starting time (sec.)..... 0,00  
Temp. rise winding (K)..... 57  
Temp. rise surface (K)..... 39

Rated power (kW)	3,00	3,60	3,50
Frequency (Hz)	50	60	60
Voltage (V)	575	400 690	400 690
Connection	Y	D Y	D Y
Full load current (A)	4,05	7,00 4,05	6,75 3,90
Speed (rpm)	2900	3490	3490
Power factor cos(phi)	0,88	0,88	0,88
Efficiency, 100/75/50 (%)	84,6/ 85,0 /83,5	84,6/ 85,0 /83,5	84,6/ 85,0 /83,5
Ist/In	8,75	8,75	9,05
Full load torque (Nm)	9,85	9,85	9,55
Tst/Tn	3,15	3,15	3,25
Tmax/Tn	3,90	3,90	4,00
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45