

Data Sheet

Itemnumber..... 3242801199



A = 457	AC = 546	BB = 536	DB = M20	EG = 56	GD = 12	HB = 362	L = 1036	TL = 230
AA = 85	AD = 403	C = 190	E = 140	F = 20	H = 280	HD = 683	LB = 896	
AB = 542	B = 419	D = 75	EB = 110	G = 67,50	HA = 35	K = 24	TB = 305	

Version

Type..... HMC2 280M-4
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE2
Pole..... 4
Power at 50 Hz (kW)..... 90,0
Hz..... 60 (60 Hz output)
Voltage..... 690VD
Winding voltage..... 690VD 60 Hz
Power output (kW)..... 104
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 280
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)..... 627

Environment condition

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

Bearing

DE Bearing..... 6317/C3
NDE Bearing..... 6314/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-M10

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)..... 1,95
Noise level (dB(A))..... 75
No load current (A)..... 24,4
Winding resist. (ohm)..... 0,13
Starting time (sec.)..... 0,18
Temp. rise winding (K)..... 69
Temp. rise surface (K)..... 58

Rated power (kW)	90,0	108	104
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A)	104	110	108
Speed (rpm)	1480	1780	1780
Power factor cos(phi)	0,92	0,92	0,92
Efficiency, 100/75/50 (%)	94,2/ 94,2 /93,9	94,2/ 94,2 /93,9	94,2/ 94,2 /93,9
Ist/In	8,75	8,75	9,00
Full load torque (Nm)	580	580	565
Tst/Tn	3,00	3,00	3,10
Tmax/Tn	3,80	3,80	3,90
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45