

Data Sheet

Itemnumber..... 5521800150



A = 279	AC = 354	BB = 311	DB = M16	EG = 40	GD = 9	HB = 237	L = 686	TL = 162
AA = 70	AD = 292	C = 121	E = 110	F = 14	H = 180	HD = 472	LB = 576	
AB = 349	B = 241	D = 48	EB = 100	G = 42,50	HA = 22	K = 14,50	TB = 218	

Version

Type..... HMC3 180M-2
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE3
Pole..... 2
Power at 50 Hz (kW)..... 22,0
Hz..... 50
Voltage..... 230VD/400VY
Winding voltage..... 230VD/400VY 50 Hz
Power output (kW)..... 22,0
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 180
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)..... 198

Environment condition

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

Bearing

DE Bearing..... 6311-ZZ/C3
NDE Bearing..... 6311-ZZ/C3
Fixed bearing..... DE

Terminal box

Tbox position..... Top
Cable entry direction..... Right (from DE)
Cable entry
Main..... 2 x M40x1,5
Plastic blindcaps
Accessory..... 2 x M20x1,5
Plastic blindcaps
Terminal board thread..... 6-M6

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)..... 0,13
Noise level (dB(A))..... 79
No load current (A)..... 12,2
Winding resist. (ohm)..... 0,085
Starting time (sec.)..... 0,16
Temp. rise winding (K)..... 53
Temp. rise surface (K)..... 34

Rated power (kW)	22,0	21,4	26,5	25,5
Frequency (Hz)	50	50	60	60
Voltage (V)	230 400	220 380	280 480	440
Connection	D Y	D Y	D Y	Y
Full load current (A)	66,5 38,0	68,5 39,5	66,5 38,0	39,5
Speed (rpm)	2960	2960	3550	3550
Power factor cos(phi)	0,90	0,90	0,90	0,91
Efficiency, 100/75/50 (%)	92,7/ 92,4 /90,9	92,7/ 92,4 /90,9	92,7/ 92,4 /90,9	92,2/ 91,9 /90,3
Ist/In	10,00	8,80	10,00	9,20
Full load torque (Nm)	71,0	68,5	71,0	68,5
Tst/Tn	4,10	3,80	4,10	3,55
Tmax/Tn	4,10	3,80	4,10	3,55
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45