

Data Sheet

Itemnumber....: 5521601150



A = 254	AC = 313	BB = 260	DB = M16	EG = 36	GD = 8	HB = 221	L = 610	TL = 162
AA = 65	AD = 276	C = 108	E = 110	F = 12	H = 160	HD = 436	LB = 500	
AB = 314	B = 210	D = 42	EB = 100	G = 37	HA = 20	K = 14,50	TB = 218	

Version

Type.....: HMC3 160M2-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 15,0
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 15,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 160
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).....: 137

Environment condition

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

Bearing

DE Bearing.....: 6309-ZZ/C3
NDE Bearing.....: 6309-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).....: 0,066
Noise level (dB(A)).....: 79
No load current (A).....: 7,60
Winding resist. (ohm).....: 0,15
Starting time (sec.).....: 0,14
Temp. rise winding (K).....: 60
Temp. rise surface (K).....: 43

Rated power (kW)	15,0	14,6	18,0	17,4
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)	45,0 26,0	46,5 26,5	45,0 26,0	26,5
Speed (rpm)	2950	2950	3550	3550
Power factor cos(phi)	0,91	0,91	0,91	0,92
Efficiency, 100/75/50 (%)	91,9/ 91,9 /90,8	91,9/ 91,9 /90,8	91,9/ 91,9 /90,8	91,3/ 91,4 /90,2
Ist/In	9,95	8,75	9,95	9,15
Full load torque (Nm)	48,5	47,0	48,5	47,0
Tst/Tn	2,95	2,75	2,95	2,55
Tmax/Tn	3,90	3,65	3,90	3,40
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45