

Data Sheet

Itemnumber.....: 5541600150



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 160M-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 11,0
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 11,0
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).....: 122

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

Test values

Rotor inertia (kgm²).....: 0,11
Noise level (dB(A)).....: 71
No load current (A).....: 9,15
Winding resist. (ohm).....: 0,25
Starting time (sec.).....: 0,08
Temp. rise winding (K).....: 57
Temp. rise surface (K).....: 41

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

Rated power (kW)	11,0	10,6	13,2	12,8
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)	36,5 20,8	37,5 21,4	36,5 20,8	21,4
Speed (rpm)	1470	1470	1760	1760
Power factor cos(phi)	0,83	0,84	0,83	0,85
Efficiency, 100/75/50 (%)	91,4/ 91,9 /89,9	91,4/ 91,9 /89,9	91,4/ 91,9 /89,9	90,8/ 91,3 /89,2
Ist/In	8,20	7,20	8,20	7,55
Full load torque (Nm)	71,5	69,0	71,5	69,0
Tst/Tn	2,90	2,70	2,90	2,50
Tmax/Tn	3,65	3,40	3,65	3,15
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45