

Data Sheet

Itemnumber.....: 5561600100



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-6
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 6
Power at 50 Hz (kW).....: 7,50
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 7,50
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).....: 120

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).....: 0,12
Noise level (dB(A)).....: 64
No load current (A).....: 6,70
Winding resist. (ohm).....: 1,31
Starting time (sec.).....: 0,11
Temp. rise winding (K).....: 53
Temp. rise surface (K).....: 38

Rated power (kW)	7,50	7,30	9,00	8,75
Frequency (Hz)	50	50	60	60
Voltage (V)	400 690	380 660	480 830	440
Connection	D Y	D Y	D Y	D
Full load current (A)	14,8 8,65	15,4 8,90	14,8 8,65	15,4
Speed (rpm)	970	970	1170	1170
Power factor cos(phi)	0,82	0,83	0,82	0,84
Efficiency, 100/75/50 (%)	89,1/ 90,0 /88,1	89,1/ 90,0 /88,1	89,1/ 90,0 /88,1	88,3/ 89,3 /87,3
Ist/In	5,85	5,15	5,85	5,40
Full load torque (Nm)	73,5	71,5	73,5	71,5
Tst/Tn	1,98	1,84	1,98	1,70
Tmax/Tn	2,16	2,00	2,16	1,88
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45