

Data Sheet

Itemnumber....: 5542500100



A = 406	AC = 484	BB = 445	DB = M20	EG = 56	GD = 11	HB = 316	L = 909	TL = 230
AA = 80	AD = 374	C = 168	E = 140	F = 18	H = 250	HD = 624	LB = 769	
AB = 484	B = 349	D = 65	EB = 130	G = 58	HA = 30	K = 24	TB = 305	

Version

Type.....: HMC3 250M-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 55,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 55,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 250
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).....: 456

Environment condition

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

Bearing

DE Bearing.....: 6314/C3
NDE Bearing.....: 6313/C3
Fixed bearing.....: DE

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M63x1,5
Plastic blindcaps
Accessory.....: 2 x M20x1,5
Plastic blindcaps
Terminal board thread.....: 6-M10

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).....: 1,01
Noise level (dB(A)).....: 71
No load current (A).....: 30,5
Winding resist. (ohm).....: 0,079
Starting time (sec.).....: 0,17
Temp. rise winding (K).....: 60
Temp. rise surface (K).....: 42

Rated power (kW)	55,0	53,5	66,0	64,0
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)	96,0 55,5	99,0 57,5	96,0 55,5	99,0
Speed (rpm)	1480	1480	1780	1780
Power factor cos(phi)	0,88	0,89	0,88	0,90
Efficiency, 100/75/50 (%)	94,6/ 94,6 /93,9	94,6/ 94,6 /93,9	94,6/ 94,6 /93,9	94,2/ 94,3 /93,5
Ist/In	8,50	7,50	8,50	7,80
Full load torque (Nm)	355	345	355	345
Tst/Tn	3,00	2,80	3,00	2,60
Tmax/Tn	3,10	2,90	3,10	2,70
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45