

Data Sheet

Itemnumber.....: 5542250150



A = 356	AC = 445	BB = 369	DB = M20	EG = 56	GD = 11	HB = 285	L = 823	TL = 192
AA = 75	AD = 336	C = 149	E = 140	F = 18	H = 225	HD = 561	LB = 683	
AB = 431	B = 286	D = 60	EB = 130	G = 53	HA = 28	K = 18,50	TB = 260	

Version

Type.....: HMC3 225S-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 37,0
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 37,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 225
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).....: 308

Environment condition

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

Bearing

DE Bearing.....: 6313/C3
NDE Bearing.....: 6312/C3
Fixed bearing.....: DE

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M50x1,5
Plastic blindcaps
Accessory.....: 2 x M20x1,5
Plastic blindcaps
Terminal board thread.....: 6-M8

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).....: 0,61
Noise level (dB(A)).....: 73
No load current (A).....: 22,4
Winding resist. (ohm).....: 0,053
Starting time (sec.).....: 0,15
Temp. rise winding (K).....: 59
Temp. rise surface (K).....: 42

Rated power (kW)	37,0	36,0	44,5	43,0
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)	114 66,0	118 68,0	114 66,0	68,0
Speed (rpm)	1480	1480	1780	1780
Power factor cos(phi)	0,86	0,87	0,86	0,88
Efficiency, 100/75/50 (%)	93,9/ 94,2 /93,8	93,9/ 94,2 /93,8	93,9/ 94,2 /93,8	93,5/ 93,8 /93,4
Ist/In	7,90	6,95	7,90	7,25
Full load torque (Nm)	238	232	238	232
Tst/Tn	3,05	2,85	3,05	2,65
Tmax/Tn	3,30	3,10	3,30	2,90
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45