

Data Sheet

Itemnumber....: 3242250109



A = 356	AC = 445	BB = 368	DB = M20	EG = 56	GD = 11	HB = 286	L = 807	TL = 192
AA = 75	AD = 336	C = 149	E = 140	F = 18	H = 225	HD = 561	LB = 667	
AB = 431	B = 286	D = 60	EB = 110	G = 53	HA = 28	K = 18,50	TB = 260	

Version

Type.....: HMC2 225S-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE2
Pole.....: 4
Power at 50 Hz (kW).....: 37,0
Hz.....: 60 (60 Hz output)
Voltage.....: 440VD
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 43,0
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).....: 300

Environment condition

Ambient temp. min. (°C)....: -20
Ambient temp. max. (°C)....: 45
Altitude (mtr up to).....: 1000

Bearing

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

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M50x1,5
 Ø32-38mm metal
Accessory.....: 2 x M20x1,5
 Metal blindcaps
Terminal board thread.....: 6-M8

Motor protection

Thermal protection main....: PTC 3x 155 dgr
Thermal protection second..: None
Space heater.....: 1x 230V 80W
Temperature detector.....: No
SPM.....: No
IR wire.....: No
Tropical insulation.....: Yes

Explosion protection

According to.....: None
Type of protection.....: None

General

Direction of rotation.....: CW
Painting.....: RAL 9005
Nameplate.....: Multivoltage + VFD
Special packing.....: No
Special requirements.....: No

Test values

Rotor inertia (kgm²).....: 0,55
Noise level (dB(A)).....: 68
No load current (A).....: 20,0
Winding resist. (ohm).....: 0,16
Starting time (sec.).....: 0,16
Temp. rise winding (K).....: 72
Temp. rise surface (K).....: 47

Rated power (kW)	37,0	36,0	44,5	43,0
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)	64,5 37,5	66,5 38,5	64,5 37,5	68,0
Speed (rpm)	1480	1480	1770	1770
Power factor cos(phi)	0,89	0,90	0,89	0,90
Efficiency, 100/75/50 (%)	92,7/ 93,2 /92,7	92,7/ 93,2 /92,7	92,7/ 93,2 /92,7	92,2/ 92,7 /92,2
Ist/In	7,05	6,20	7,05	6,50
Full load torque (Nm)	238	230	238	230
Tst/Tn	2,28	2,12	2,28	1,98
Tmax/Tn	3,10	2,90	3,10	2,70
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45