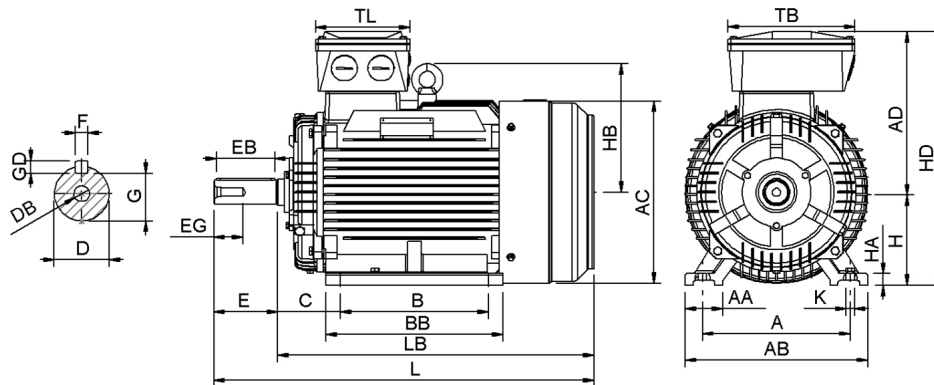


Data Sheet

Itemnumber.....: 5522250150



A = 356	AC = 445	BB = 393	DB = M20	EG = 56	GD = 10	HB = 285	L = 818	TL = 192
AA = 75	AD = 336	C = 149	E = 110	F = 16	H = 225	HD = 561	LB = 708	
AB = 431	B = 311	D = 55	EB = 100	G = 49	HA = 28	K = 18,50	TB = 260	

Version

Type.....: HMC3 225M-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 45,0
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 45,0
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).....: 324

Environment condition

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

Bearing

DE Bearing.....: 6312/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).....: 0,34
Noise level (dB(A)).....: 84
No load current (A).....: 19,2
Winding resist. (ohm).....: 0,031
Starting time (sec.).....: 0,26
Temp. rise winding (K).....: 60
Temp. rise surface (K).....: 40

Rated power (kW)	45,0	43,5	54,0	52,5
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)	132 76,0	136 78,0	132 76,0	78,0
Speed (rpm)	2970	2970	3580	3580
Power factor cos(phi)	0,91	0,92	0,91	0,92
Efficiency, 100/75/50 (%)	94,0/ 93,9 /92,9	94,0/ 93,9 /92,9	94,0/ 93,9 /92,9	93,6/ 93,5 /92,4
Ist/In	8,70	7,65	8,70	8,00
Full load torque (Nm)	144	140	144	140
Tst/Tn	3,25	3,05	3,25	2,80
Tmax/Tn	3,45	3,20	3,45	2,95
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45