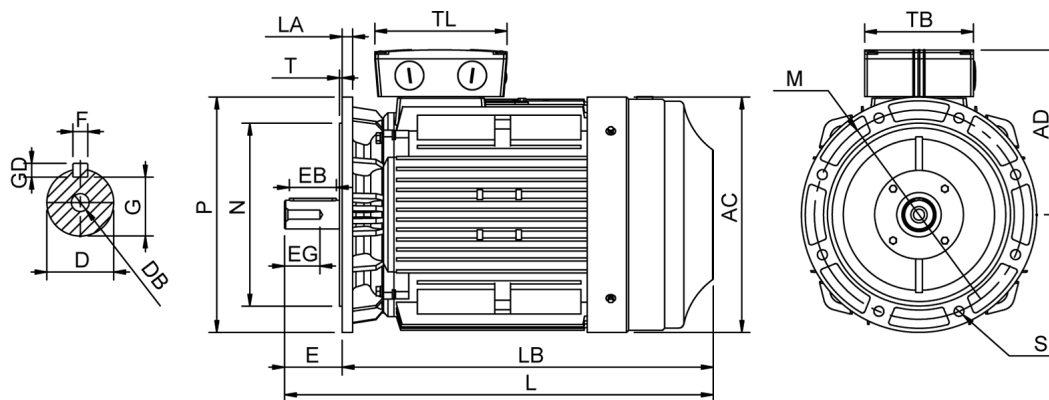


Data Sheet

Itemnumber.....: 6042251200



AC = 445	DB = M20	EG = 58	GD = 11	LA = 20	N = 350	T = 5
AD = 319	E = 140	F = 18	HB = 195	LB = 706	P = 450	TB = 200
D = 60	EB = 125	G = 53	L = 846	M = 400	S = 8-Ø18,5	TL = 250

Version

Type.....: HMC4 225M-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE4
Pole.....: 4
Power at 50 Hz (kW).....: 45,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 45,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 225
Mounting.....: B5
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).....: 382

Environment condition

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

Bearing

DE Bearing.....: 6213/C3
NDE Bearing.....: 6212/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.....: M8

Test values

Rotor inertia (kgm²).....: 0,68
Noise level (dB(A)).....: 70
Starting time (sec.).....: 0,18

Motor protection

Thermal protection main.....: PTC 3x 155 dgr
Thermal protection second.....: None
Space heater.....: None 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

Rated power (kW)	45,0	43,5	54,0	52,5
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)	77,5 44,5	79,5 46,0	77,5 44,5	79,5
Speed (rpm)	1480	1480	1780	1780
Power factor cos(phi)	0,88	0,89	0,88	0,89
Efficiency, 100/75/50 (%)	95,4/95,5/95,2	95,4/95,5/95,2	95,4/95,5/95,2	95,1/95,2/94,9
Ist/In	8,90	7,85	8,90	8,20
Full load torque (Nm)	290	280	290	280
Tst/Tn	2,40	2,24	2,40	2,08
Tmax/Tn	2,60	2,42	2,60	2,26
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45