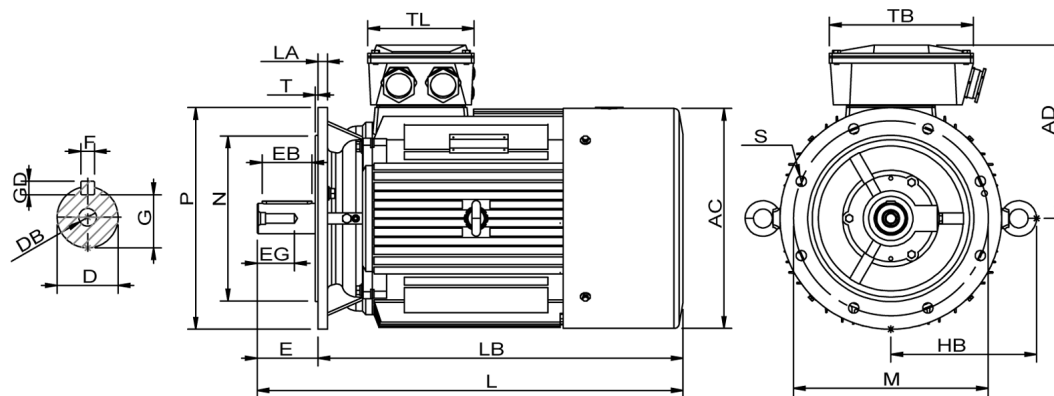


Itemnumber....: 3242251209



AC = 445	DB = M20	EG = 56	GD = 11	LA = 20	N = 350	T = 5
AD = 336	E = 140	F = 18	HB = 286	LB = 692	P = 450	TB = 260
D = 60	EB = 110	G = 53	L = 832	M = 400	S = 8-Ø18,5	TL = 192

## Version

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

## Electrical design

```

Efficiency.....: IE2
Pole.....: 4
Power at 50 Hz (kW).....: 45,0
Hz.....: 60 (60 Hz output)
Voltage.....: 440VD
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 52,5
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

```

## Mechanical design

```

Mechanical design..... 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)..... 330

```

## Environment condition

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

### 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

```

Bearing

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
```

Test values

Rotor inertia (kgm <sup>2</sup> ).....	0.57
Noise level (dB(A)).....	68
No load current (A).....	23.0
Winding resist. (ohm).....	0.16
Starting time (sec.).....	0.13
Temp. rise winding (K).....	77
Temp. rise surface (K).....	60

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 45,0	79,5 46,0	77,5 45,0	81,5
Speed (rpm)	1480	1480	1770	1770
Power factor cos(phi)	0,90	0,91	0,90	0,91
Efficiency, 100/75/50 (%)	93,1/ 93,0 /92,5	93,1/ 93,0 /92,5	93,1/ 93,0 /92,5	92,6/ 92,5 /92,0
Ist/In	7,45	6,60	7,45	6,90
Full load torque (Nm)	290	280	290	280
Tst/Tn	2,48	2,32	2,48	2,16
Tmax/Tn	3,25	3,00	3,25	2,80
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45