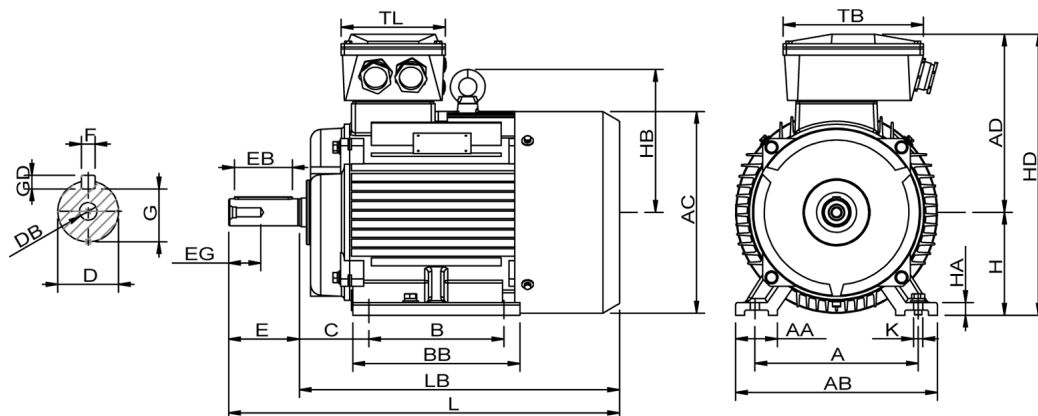


Data Sheet

Itemnumber....: 3221600199



A = 254	AC = 313	BB = 260	DB = M16	EG = 36	GD = 8	HB = 222	L = 608	TL = 162
AA = 65	AD = 277	C = 108	E = 110	F = 12	H = 160	HD = 437	LB = 498	
AB = 314	B = 210	D = 42	EB = 90	G = 37	HA = 20	K = 14,50	TB = 218	

Version

Type.....: HMC2 160M1-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

```

Efficiency.....: IE2
Pole.....: 2
Power at 50 Hz (kW).....: 11,0
Hz.....: 60 (60 Hz output)
Voltage.....: 690VD
Winding voltage.....: 690VD 60 Hz
Power output (kW).....: 12,8
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

```

Mechanical design

```

Mechanical Design
Frame size.....: 160
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).....: 100

```

Environment condition

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

Bearing

Bearing

DE Bearing.....	6309-ZZ/C3
NDE Bearing.....	6309-ZZ/C3
Fixed bearing.....	DE

Terminal box

```

Thox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
    Main.....: 2 x M40x1,5
                Ø22-30mm metal
    Accessory.....: 2 x M20x1,5
                Metal blindcaps
Terminal board thread.....: 6-M6

```

Motor protection

```

Thermal protection main....: PTC 3x 155 dgr
Thermal protection second..: None
Space heater.....: 1x 230V 50W
Temperature detector.....: No
SPM.....: No
IR wire.....: Yes
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

Rated power (kW)	11,0	13,2	12,8
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A)	13,4	13,8	13,4
Speed (rpm)	2930	3520	3520
Power factor cos(phi)	0,92	0,92	0,92
Efficiency, 100/75/50 (%)	89,4/ 88,2 /87,1	89,4/ 88,2 /87,1	89,4/ 88,2 /87,1
Ist/In	6,55	6,55	6,75
Full load torque (Nm)	36,0	36,0	34,5
Tst/Tn	2,16	2,16	2,22
Tmax/Tn	3,15	3,15	3,25
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45