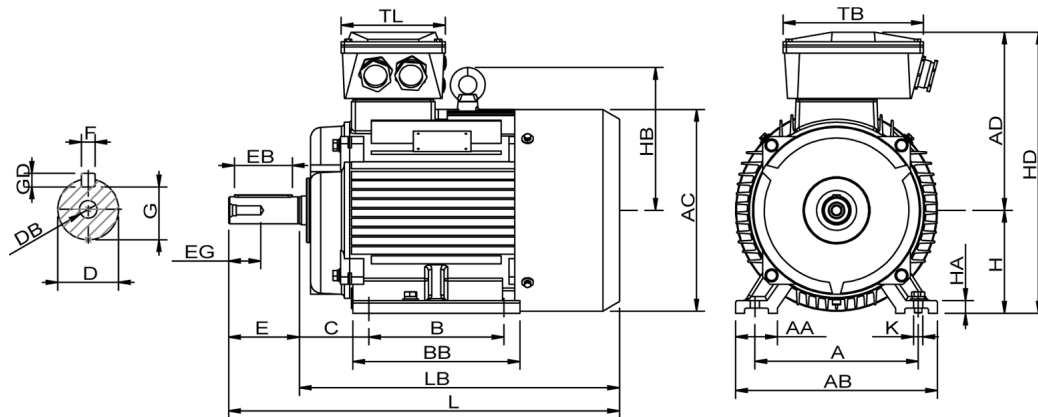


Data Sheet

Itemnumber....: 3241601199



A = 254	AC = 313	BB = 304	DB = M16	EG = 36	GD = 8	HB = 222	L = 652	TL = 162
AA = 65	AD = 277	C = 108	E = 110	F = 12	H = 160	HD = 437	LB = 542	
AB = 314	B = 254	D = 42	EB = 90	G = 37	HA = 20	K = 14,50	TB = 218	

Version

Type.....: HMC2 160L-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....	: IE2
Pole.....	: 4
Power at 50 Hz (kW).....	: 15,0
Hz.....	: 60 (60 Hz output)
Voltage.....	: 690VD
Winding voltage.....	: 690VD 60 Hz
Power output (kW).....	: 17,4
Duty.....	: S1
Insulation class.....	: F
Temperature rise.....	: B

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).....	135

Environment condition

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

Bearing

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

Terminal box

```
Tbox 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)	15,0	18,0	17,4
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A)	18,8	19,8	19,2
Speed (rpm)	1470	1740	1740
Power factor cos(phi)	0,88	0,88	0,88
Efficiency, 100/75/50 (%) :	90,6/ 90,7 /89,5	90,6/ 90,7 /89,5	90,6/ 90,7 /89,5
Ist/In	7,75	7,75	8,00
Full load torque (Nm)	98,0	98,0	95,0
Tst/Tn	3,00	3,00	3,10
Tmax/Tn	3,35	3,35	3,45
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45