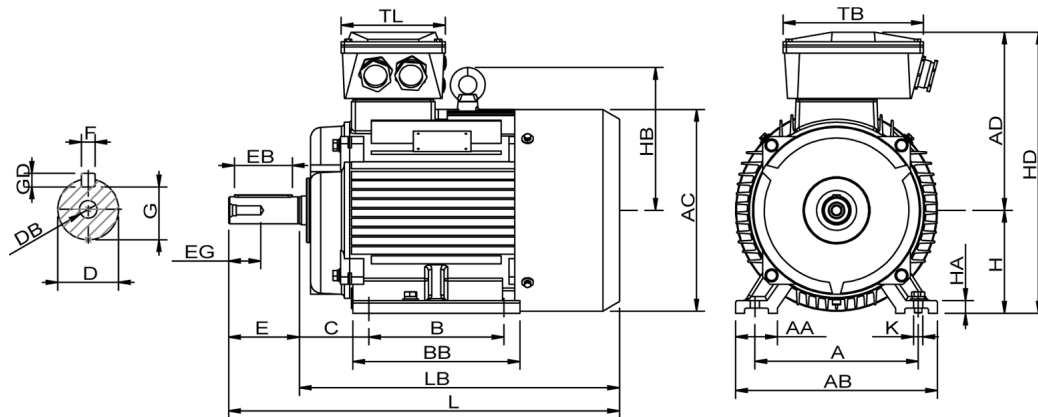


Data Sheet

Itemnumber....: 3241800199



A = 279	AC = 357	BB = 311	DB = M16	EG = 40	GD = 9	HB = 238	L = 688	TL = 162
AA = 70	AD = 293	C = 121	E = 110	F = 14	H = 180	HD = 473	LB = 578	
AB = 349	B = 241	D = 48	EB = 90	G = 42,50	HA = 22	K = 14,50	TB = 218	

Version

Type.....: HMC2 180M-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

```

Efficiency.....: IE2
Pole.....: 4
Power at 50 Hz (kW).....: 18,5
Hz.....: 60 (60 Hz output)
Voltage.....: 690VD
Winding voltage.....: 690VD 60 Hz
Power output (kW).....: 21,6
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

```

Mechanical design

Frame size.....	180
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).....	175

Environment condition

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

Bearing

Bearing.....

DE Bearing.....	6311-ZZ/C3
NDE Bearing.....	6311-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 60W
Temperature detector.....: No
SPM.....: No
IR wire.....: Yes
Tropical insulation.....: Yes

```

Explosion protection

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)	18,5	22,2	21,6
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A) . . .	23,6	24,0	23,2
Speed (rpm)	1470	1740	1740
Power factor cos(phi) . . .	0,86	0,86	0,86
Efficiency, 100/75/50 (%) :	91,2/ 90,5 /89,6	91,2/ 90,5 /89,6	91,2/ 90,5 /89,6
Ist/In	7,60	7,60	7,85
Full load torque (Nm) . . .	120	120	116
Tst/Tn	2,60	2,60	2,65
Tmax/Tn	3,25	3,25	3,35
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45