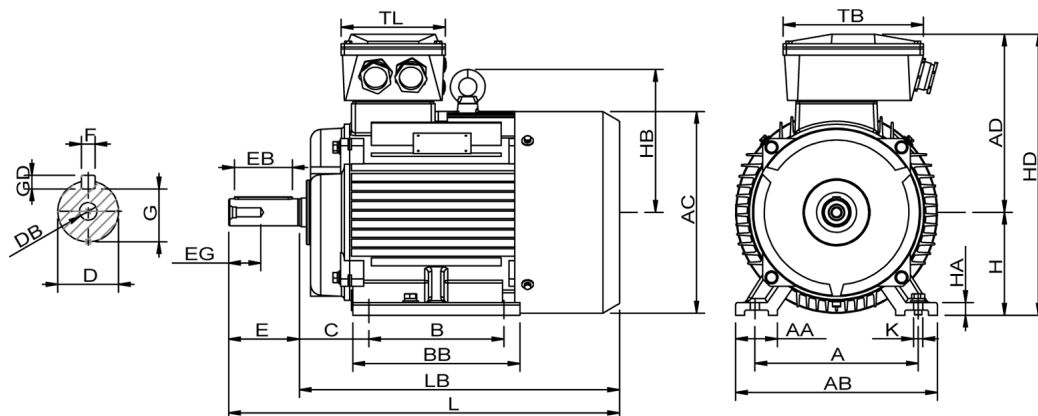


Data Sheet

Itemnumber....: 3222801199



A = 457	AC = 546	BB = 536	DB = M20	EG = 56	GD = 11	HB = 362	L = 1016	TL = 230
AA = 85	AD = 403	C = 190	E = 140	F = 18	H = 280	HD = 683	LB = 876	
AB = 542	B = 419	D = 65	EB = 110	G = 58	HA = 35	K = 24	TB = 305	

Version

Type.....: HMC2 280M-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

```

Efficiency.....: IE2
Pole.....: 2
Power at 50 Hz (kW).....: 90,0
Hz.....: 60 (60 Hz output)
Voltage.....: 690VD
Winding voltage.....: 690VD 60 Hz
Power output (kW).....: 104
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

```

Mechanical design

```

Mechanical design.....: 280
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).....: 582

```

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 100W
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

Bearing

Bearing
DE Bearing.....: 6314/C3
NDE Bearing.....: 6314/C3
Fixed bearing.....: DE

Terminal box

```

Thox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
    Main.....: 2 x M63x1,5
                  Ø37-44mm metal
    Accessory.....: 2 x M20x1,5
                  Metal blindcaps
Terminal board thread.....: 6-M10

```

Test values

Rotor inertia (kgm ²).....	0.83
Noise level (dB(A)).....	91
No load current (A).....	23,6
Winding resist. (ohm).....	0,11
Starting time (sec.).....	0,35
Temp. rise winding (K).....	64
Temp. rise surface (K).....	55

Rated power (kW)	90,0	108	104
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A)	104	106	102
Speed (rpm)	2980	3560	3560
Power factor cos(phi)	0,92	0,92	0,92
Efficiency, 100/75/50 (%) :	94,1/ 94,0 /92,9	94,1/ 94,0 /92,9	94,1/ 94,0 /92,9
Ist/In	9,55	9,55	9,85
Full load torque (Nm)	290	290	280
Tst/Tn	2,60	2,60	2,65
Tmax/Tn	3,60	3,60	3,70
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45