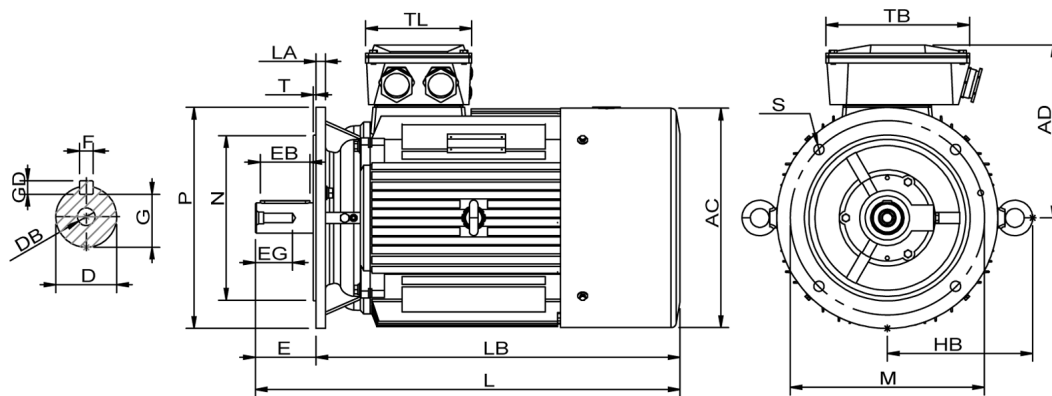


Data Sheet

Itemnumber.....: 3221800209



AC = 357	DB = M16	EG = 40	GD = 9	LA = 15	N = 250	T = 5
AD = 293	E = 110	F = 14	HB = 238	LB = 578	P = 350	TB = 218
D = 48	EB = 90	G = 42,50	L = 688	M = 300	S = 4-Ø18,5	TL = 162

Version

Type.....: HMC2 180M-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE2
Pole.....: 2
Power at 50 Hz (kW).....: 22,0
Hz.....: 60 (60 Hz output)
Voltage.....: 440VD
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 25,5
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 180
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).....: 195

Environment condition

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

Bearing

DE Bearing.....: 6311-ZZ/C3
NDE Bearing.....: 6311-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

Test values

Rotor inertia (kgm²).....: 0,092
Noise level (dB(A)).....: 72
No load current (A).....: 11,0
Winding resist. (ohm).....: 0,22
Starting time (sec.).....: 0,14
Temp. rise winding (K).....: 67
Temp. rise surface (K).....: 43

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.....: 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

Rated power (kW)	22,0	21,4	26,5	25,5
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)	39,0 22,6	40,5 23,4	39,0 22,6	41,5
Speed (rpm)	2950	2950	3530	3530
Power factor cos(phi)	0,89	0,90	0,89	0,90
Efficiency, 100/75/50 (%)	91,3/ 91,4 /90,3	91,3/ 91,4 /90,3	91,3/ 91,4 /90,3	90,9/ 90,9 /89,8
Ist/In	8,90	7,80	8,90	8,15
Full load torque (Nm)	71,0	69,0	71,0	69,0
Tst/Tn	2,90	2,70	2,90	2,50
Tmax/Tn	3,90	3,60	3,90	3,35
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45