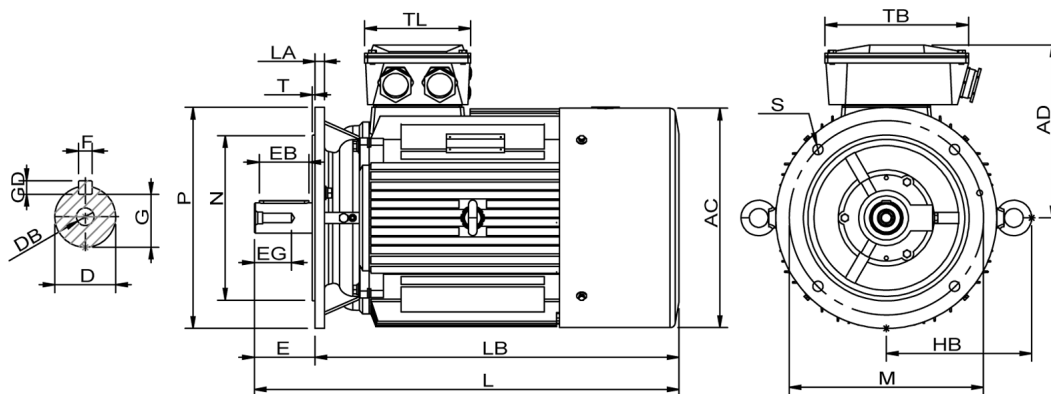


Data Sheet

Itemnumber....: 3241800209



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-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.....: 440VD
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 21,6
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).....: 175

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).....: 0,20
Noise level (dB(A)).....: 66
No load current (A).....: 11,2
Winding resist. (ohm).....: 0,35
Starting time (sec.).....: 0,11
Temp. rise winding (K).....: 71
Temp. rise surface (K).....: 54

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)	18,5	18,0	22,2	21,6
Frequency (Hz)	50	50	60	60
Voltage (V)	400	380	480	440
Connection	D	D	D	D
Full load current (A)	34,0	35,0	34,0	35,5
Speed (rpm)	1470	1470	1740	1740
Power factor cos(phi)	0,86	0,87	0,86	0,87
Efficiency, 100/75/50 (%) . .	91,2/ 90,5 /89,6	91,2/ 90,5 /89,6	91,2/ 90,5 /89,6	90,6/ 89,9 /88,8
Ist/In	7,60	6,70	7,60	7,00
Full load torque (Nm)	120	116	120	116
Tst/Tn	2,60	2,40	2,60	2,24
Tmax/Tn	3,25	3,05	3,25	2,85
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45