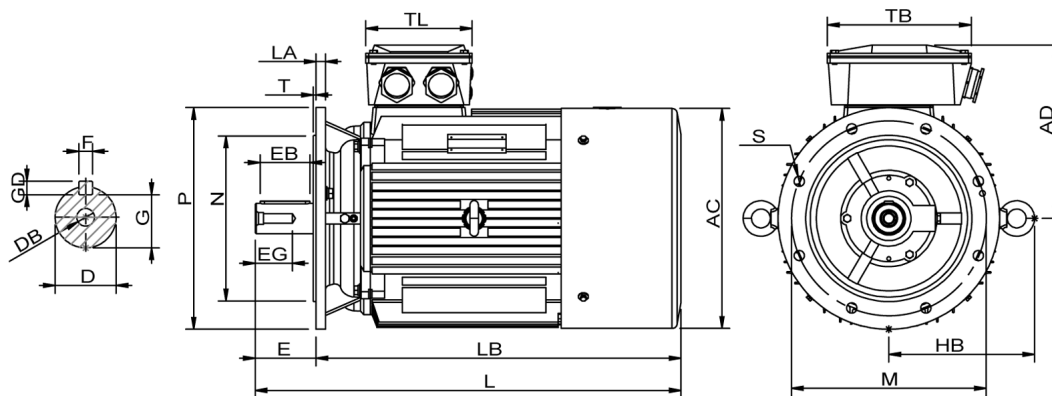


Data Sheet

Itemnumber....: 3242801209



AC = 546	DB = M20	EG = 56	GD = 12	LA = 22	N = 450	T = 5
AD = 403	E = 140	F = 20	HB = 362	LB = 896	P = 550	TB = 305
D = 75	EB = 110	G = 67,50	L = 1036	M = 500	S = 8-Ø18,5	TL = 230

Version

Type.....: HMC2 280M-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE2
Pole.....: 4
Power at 50 Hz (kW).....: 90,0
Hz.....: 60 (60 Hz output)
Voltage.....: 440VD
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 104
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 280
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).....: 600

Environment condition

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

Bearing

DE Bearing.....: 6317/C3
NDE Bearing.....: 6314/C3
Fixed bearing.....: DE

Terminal box

Tbox 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 (kgm²).....: 1,95
Noise level (dB(A)).....: 75
No load current (A).....: 42,5
Winding resist. (ohm).....: 0,063
Starting time (sec.).....: 0,18
Temp. rise winding (K).....: 71
Temp. rise surface (K).....: 60

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.....: 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)	90,0	87,5	108	104
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)	150 87,0	154 89,5	150 87,0	158
Speed (rpm)	1480	1480	1780	1780
Power factor cos(phi)	0,92	0,92	0,92	0,93
Efficiency, 100/75/50 (%)	94,2/ 94,2 /93,9	94,2/ 94,2 /93,9	94,2/ 94,2 /93,9	93,8/ 93,8 /93,4
Ist/In	8,75	7,70	8,75	8,05
Full load torque (Nm)	580	565	580	565
Tst/Tn	3,00	2,80	3,00	2,60
Tmax/Tn	3,80	3,50	3,80	3,25
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45