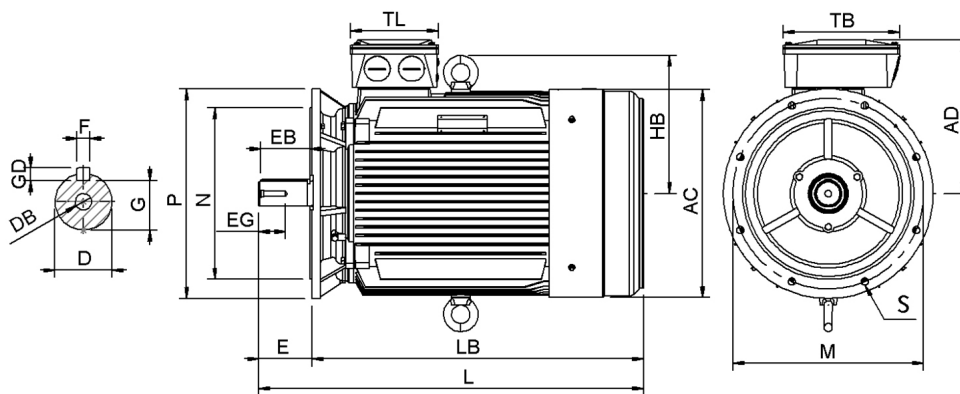


Data Sheet

Itemnumber.....: 5522801200



AC = 546	DB = M20	EG = 56	GD = 11	LA = 22	N = 450	T = 5
AD = 403	E = 140	F = 18	HB = 361	LB = 870	P = 550	TB = 305
D = 65	EB = 130	G = 58	L = 1010	M = 500	S = 8-Ø18,5	TL = 230

Version

Type.....: HMC3 280M-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 90,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 90,0
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).....: 575

Environment condition

Ambient temp. min. (°C).....: -20
Ambient temp. max. (°C).....: 40
Altitude (mtr up to).....: 1000

Bearing

DE Bearing.....: 6314/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
Plastic blindcaps
Accessory.....: 2 x M20x1,5
Plastic blindcaps
Terminal board thread.....: 6-M10

Motor protection

Thermal protection main.....: PTC 3x 155 dgr
Thermal protection second.....: None
Space heater.....: None
Temperature detector.....: No
SPM.....: No
IR wire.....: No
Tropical insulation.....: No

Explosion protection

According to.....: None
Type of protection.....: None

General

Direction of rotation.....: CW
Painting.....: RAL 9005
Nameplate.....: Multivoltage
Special packing.....: No
Special requirements.....: No

Test values

Rotor inertia (kgm²).....: 0,89
Noise level (dB(A)).....: 89
No load current (A).....: 43,0
Winding resist. (ohm).....: 0,039
Starting time (sec.).....: 0,42
Temp. rise winding (K).....: 72
Temp. rise surface (K).....: 49

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)	146 85,0	150 87,5	146 85,0	150
Speed (rpm)	2980	2980	3580	3580
Power factor cos(phi)	0,91	0,91	0,91	0,92
Efficiency, 100/75/50 (%)	95,0/ 95,1 /94,4	95,0/ 95,1 /94,4	95,0/ 95,1 /94,4	94,7/ 94,7 /94,0
Ist/In	8,05	7,10	8,05	7,45
Full load torque (Nm)	290	280	290	280
Tst/Tn	2,80	2,60	2,80	2,40
Tmax/Tn	2,75	2,55	2,75	2,40
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45