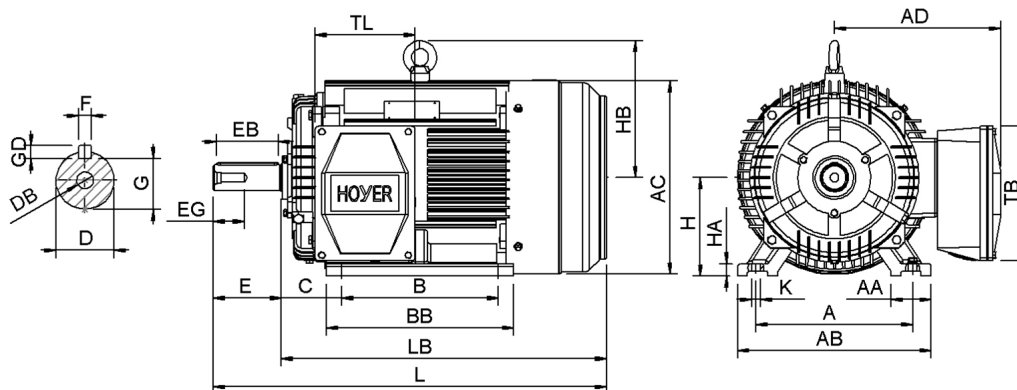


Data Sheet

Itemnumber....: 5542801110



A = 457	AC = 546	BB = 536	DB = M20	EG = 56	GD = 12	HB = 361	LB = 890
AA = 85	AD = 403	C = 190	E = 140	F = 20	H = 280	K = 24	TB = 305
AB = 542	B = 419	D = 75	EB = 130	G = 67,50	HA = 35	L = 1030	TL = 230

Version

Type.....: HMC3 280M-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
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.....: 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).....: 657

Environment condition

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

Bearing

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

Terminal box

Tbox position.....: Right
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).....: 2,11
Noise level (dB(A)).....: 78
No load current (A).....: 43,0
Winding resist. (ohm).....: 0,047
Starting time (sec.).....: 0,26
Temp. rise winding (K).....: 60
Temp. rise surface (K).....: 40

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 87,5	156 90,0	150 87,5	156
Speed (rpm)	1490	1490	1790	1790
Power factor cos(phi)	0,90	0,91	0,90	0,91
Efficiency, 100/75/50 (%)	95,2/ 95,5 /94,5	95,2/ 95,5 /94,5	95,2/ 95,5 /94,5	94,9/ 95,2 /94,1
Ist/In	8,00	7,00	8,00	7,35
Full load torque (Nm)	580	560	580	560
Tst/Tn	2,55	2,38	2,55	2,20
Tmax/Tn	2,80	2,60	2,80	2,42
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45