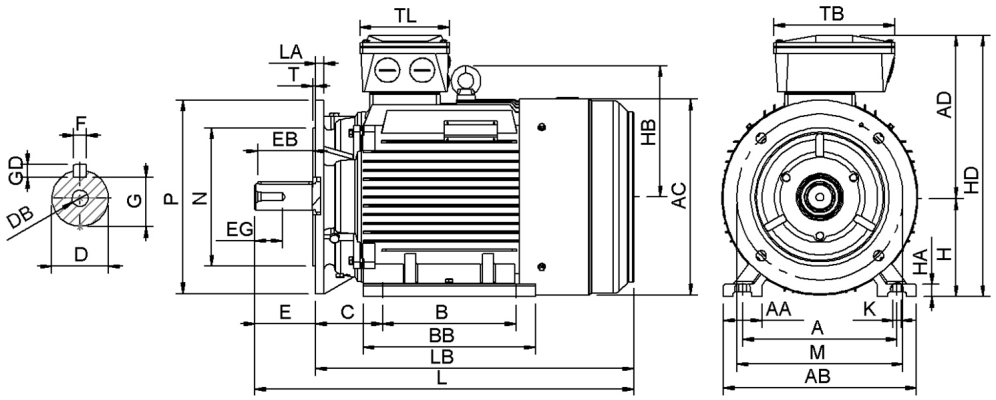
Data Sheet

Itemnumber....: 5521800400



A = 279	**AC = 354**	**BB = 311**	**DB = M16**	**EG = 40**	**GD = 9**	**HB = 237**	**L = 686**	**M = 300**	**S = 4-Ø18,5 TL = 162**
AA = 70	**AD = 292**	**C = 121**	**E = 110**	**F = 14**	**H = 180**	**HD = 472**	**LA = 15**	**N = 250**	**T = 5**
AB = 349	**B = 241**	**D = 48**	**EB = 100**	**G = 42,50**	**HA = 22**	**K = 14,50**	**LB = 576**	**P = 350**	**TB = 218**

Version
Type.....: HMC3 180M-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design
Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 22,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 22,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

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

Mechanical design
Frame size.....: 180
Mounting.....: B35
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).....: 204

Environment condition
Ambient temp. min. (°C)..: -20
Ambient temp. max. (°C)..: 40
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
Plastic blindcaps
Accessory.....: 2 x M20x1,5
Plastic blindcaps
Terminal board thread.....: 6-M6

Test values
Rotor inertia (kgm²).....: 0,13
Noise level (dB(A)).....: 79
No load current (A).....: 12,2
Winding resist. (ohm).....: 0,26
Starting time (sec.).....: 0,16
Temp. rise winding (K).....: 53
Temp. rise surface (K).....: 34

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)	38,0 22,0	39,5 22,8	38,0 22,0	39,5
Speed (rpm)	2960	2960	3550	3550
Power factor cos(phi)	0,90	0,90	0,90	0,91
Efficiency, 100/75/50 (%)	92,7/ 92,4 /90,9	92,7/ 92,4 /90,9	92,7/ 92,4 /90,9	92,2/ 91,9 /90,3
Ist/In	10,00	8,80	10,00	9,20
Full load torque (Nm)	71,0	68,5	71,0	68,5
Tst/Tn	4,10	3,80	4,10	3,55
Tmax/Tn	4,10	3,80	4,10	3,55
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45