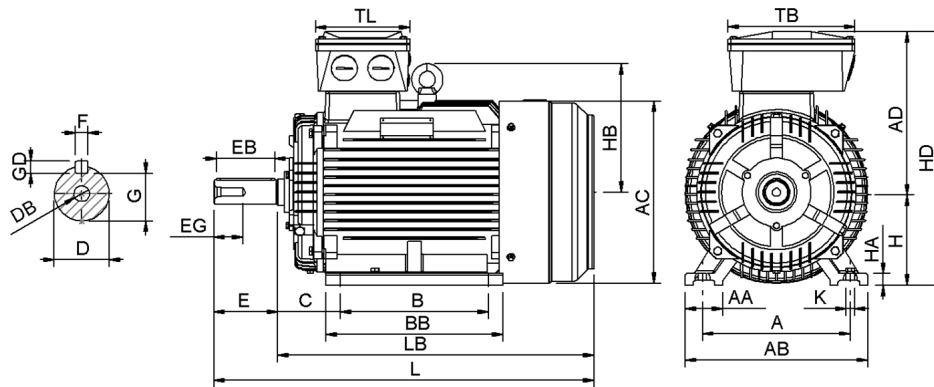


Data Sheet

Itemnumber.....: 5522800100



A = 457	AC = 546	BB = 485	DB = M20	EG = 56	GD = 11	HB = 361	L = 959	TL = 230
AA = 85	AD = 403	C = 190	E = 140	F = 18	H = 280	HD = 683	LB = 819	
AB = 542	B = 368	D = 65	EB = 130	G = 58	HA = 35	K = 24	TB = 305	

Version

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

Electrical design

Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 75,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 75,0
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).....: 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).....: 0,76
Noise level (dB(A)).....: 87
No load current (A).....: 36,5
Winding resist. (ohm).....: 0,043
Starting time (sec.).....: 0,42
Temp. rise winding (K).....: 65
Temp. rise surface (K).....: 43

Rated power (kW)	75,0	73,0	90,0	87,5
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)	128 74,5	132 76,5	128 74,5	132
Speed (rpm)	2980	2980	3580	3580
Power factor cos(phi)	0,90	0,91	0,90	0,91
Efficiency, 100/75/50 (%)	94,7/ 94,4 /93,2	94,7/ 94,4 /93,2	94,7/ 94,4 /93,2	94,3/ 94,0 /92,7
Ist/In	7,40	6,50	7,40	6,80
Full load torque (Nm)	240	234	240	234
Tst/Tn	2,40	2,24	2,40	2,08
Tmax/Tn	3,25	3,05	3,25	2,80
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45