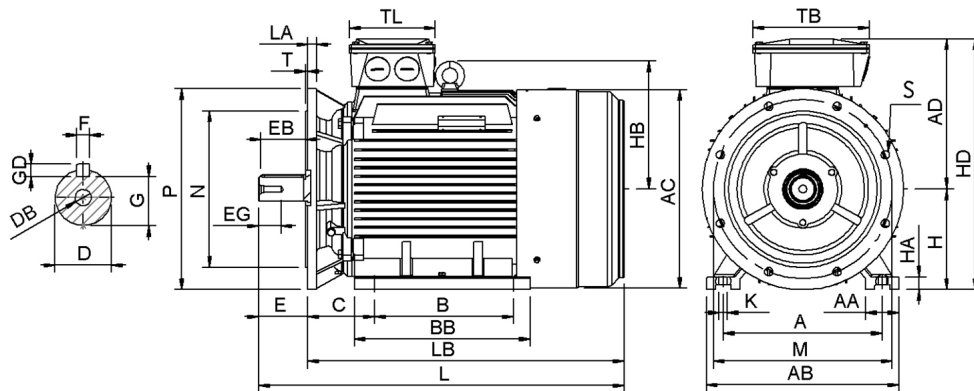


Data Sheet

Itemnumber..... 5543150400



A = 508	AC = 618	BB = 570	DB = M20	EG = 56	GD = 14	HB = 430	L = 1223	M = 600	S = 8-Ø24	TL = 299
AA = 120	AD = 547	C = 216	E = 170	F = 22	H = 315	HD = 862	LA = 22	N = 550	T = 6	
AB = 628	B = 406	D = 80	EB = 160	G = 71	HA = 45	K = 28	LB = 1053	P = 660	TB = 420	

Version

Type..... HMC3 315S-4
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE3
Pole..... 4
Power at 50 Hz (kW)..... 110
Hz..... 50
Voltage..... 400VD/690VY
Winding voltage..... 400VD/690VY 50 Hz
Power output (kW)..... 110
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 315
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)..... 912

Environment condition

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

Bearing

DE Bearing..... 6319/C3
NDE Bearing..... 6319/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-M16

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)..... 3,33
Noise level (dB(A))..... 81
No load current (A)..... 59,5
Winding resist. (ohm)..... 0,035
Starting time (sec.)..... 0,34
Temp. rise winding (K)..... 72
Temp. rise surface (K)..... 41

Rated power (kW)	110	106	132	128
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)	186 108	192 110	186 108	192
Speed (rpm)	1490	1490	1790	1790
Power factor cos(phi)	0,90	0,90	0,90	0,91
Efficiency, 100/75/50 (%)	95,4/ 95,4 /94,1	95,4/ 95,4 /94,1	95,4/ 95,4 /94,1	95,1/ 95,1 /93,7
Ist/In	8,25	7,25	8,25	7,55
Full load torque (Nm)	705	685	705	685
Tst/Tn	2,60	2,42	2,60	2,24
Tmax/Tn	2,70	2,50	2,70	2,34
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45