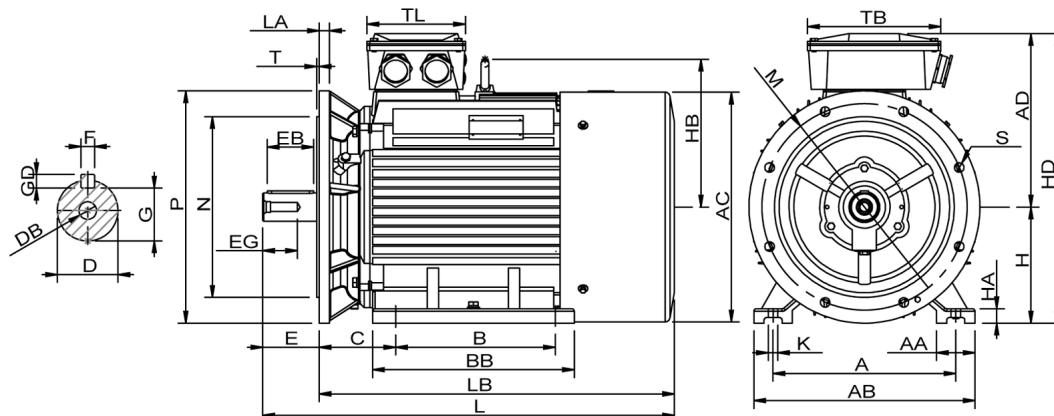


Data Sheet

Itemnumber..... 3242800409



A = 457	AC = 546	BB = 485	DB = M20	EG = 56	GD = 12	HB = 362	L = 985	M = 500	S = 8-Ø18,5	TL = 230
AA = 85	AD = 403	C = 190	E = 140	F = 20	H = 280	HD = 683	LA = 22	N = 450	T = 5	
AB = 542	B = 368	D = 75	EB = 110	G = 67,50	HA = 35	K = 24	LB = 845	P = 550	TB = 305	

Version

Type..... HMC2 280S-4
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE2
Pole..... 4
Power at 50 Hz (kW)..... 75,0
Hz..... 60 (60 Hz output)
Voltage..... 440VD
Winding voltage..... 400VD/690VY 50 Hz
Power output (kW)..... 87,5
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 280
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)..... 552

Environment condition

Ambient temp. min. (°C)..... -20
Ambient temp. max. (°C)..... 45
Altitude (mtr up to)..... 1000

Bearing

DE Bearing..... 6317/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
Ø37-44mm metal
Accessory..... 2 x M20x1,5
Metal blindcaps
Terminal board thread..... 6-M10

Motor protection

Thermal protection main..... PTC 3x 155 dgr
Thermal protection second.. None
Space heater..... 1x 230V 100W
Temperature detector..... No
SPM..... No
IR wire..... No
Tropical insulation..... Yes

Explosion protection

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

General

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

Test values

Rotor inertia (kgm²)..... 1,55
Noise level (dB(A))..... 77
No load current (A)..... 37,0
Winding resist. (ohm)..... 0,087
Starting time (sec.)..... 0,20
Temp. rise winding (K)..... 76
Temp. rise surface (K)..... 68

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)	126 73,5	130 75,5	126 73,5	134
Speed (rpm)	1480	1480	1780	1780
Power factor cos(phi)	0,91	0,91	0,91	0,92
Efficiency, 100/75/50 (%)	94,0/ 94,8 /94,6	94,0/ 94,8 /94,6	94,0/ 94,8 /94,6	93,6/ 94,4 /94,2
Ist/In	8,05	7,10	8,05	7,40
Full load torque (Nm)	485	470	485	470
Tst/Tn	2,60	2,42	2,60	2,26
Tmax/Tn	3,35	3,10	3,35	2,90
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45