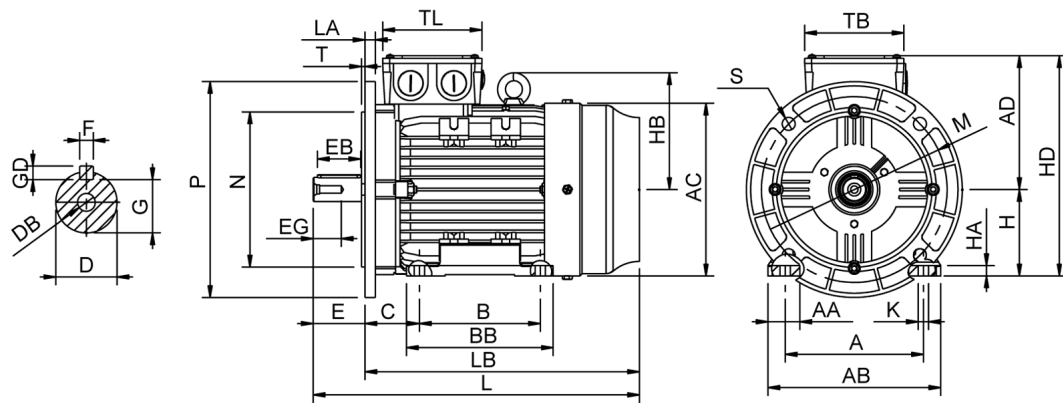


Data Sheet

Itemnumber..... 6020900400



A = 140	AC = 175	BB = 128	DB = M8	EG = 24	GD = 7	HD = 236	LA = 10	N = 130	T = 3,50
AA = 37	AD = 146	C = 56	E = 50	F = 8	H = 90	K = 10	LB = 274	P = 200	TB = 115
AB = 180	B = 100	D = 24	EB = 40	G = 20	HA = 10	L = 324	M = 165	S = 4-Ø12	TL = 115

Version

Type..... HMA4 90S-2
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE4
Pole..... 2
Power at 50 Hz (kW)..... 1,50
Hz..... 50
Voltage..... 230VD/400VY
Winding voltage..... 230VD/400VY 50 Hz
Power output (kW)..... 1,50
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 90
Mounting..... B35
Rain cap..... No
Protection class..... IP55
Cooling method..... IC411/TEFC
External grounding..... Yes
Drain hole..... Yes
Frame material..... Aluminium
Material approval..... None
Shaft..... IEC standard
Key..... Closed key
Balancing..... Half key balancing
Vibration class..... Grade-A
Weight (kg)..... 16,0

Environment condition

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

Bearing

DE Bearing..... 6205-ZZ/C3
NDE Bearing..... 6204-ZZ/C3
Fixed bearing..... DE

Terminal box

Tbox position..... Top
Cable entry direction..... Right (from DE)
Cable entry
Main..... 2 x M25x1,5
Plastic blindcaps
Accessory..... 1 x M20x1,5
Plastic blindcap
Terminal board thread..... M5

Test values

Rotor inertia (kgm²)..... 0,0020
Noise level (dB(A))..... 60
Starting time (sec.)..... 0,04

Motor protection

Thermal protection main..... PTC 3x 155 dgr
Thermal protection second.. None
Space heater..... None 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

Rated power (kW)	1,50	1,46	1,80	1,74
Frequency (Hz)	50	50	60	60
Voltage (V)	230 400	220 380	280 480	440
Connection	D Y	D Y	D Y	Y
Full load current (A)	4,95 2,85	5,10 2,95	4,95 2,85	2,95
Speed (rpm)	2900	2900	3490	3490
Power factor cos(phi)	0,88	0,89	0,88	0,89
Efficiency, 100/75/50 (%)	86,5/87,3/87,3	86,5/87,3/87,3	86,5/87,3/87,3	85,6/86,4/86,4
Ist/In	8,80	7,75	8,80	8,10
Full load torque (Nm)	4,95	4,80	4,95	4,80
Tst/Tn	3,10	2,90	3,10	2,70
Tmax/Tn	3,70	3,45	3,70	3,20
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45