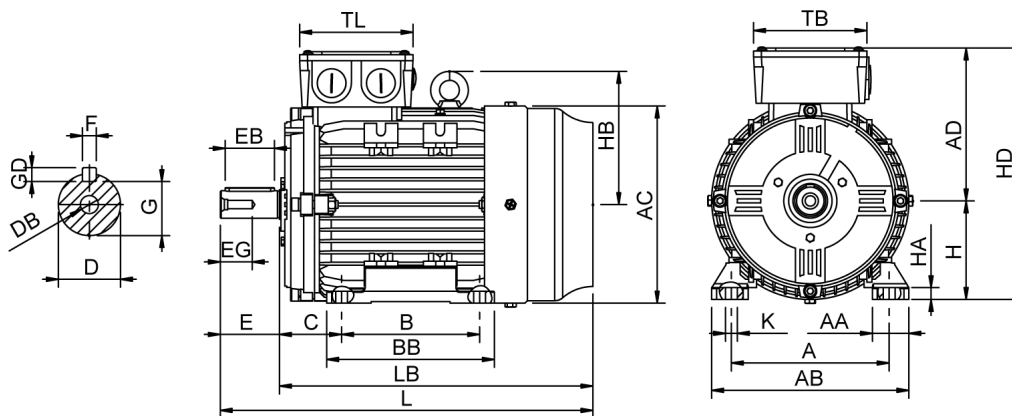


# Data Sheet

Itemnumber.....: 6061601100



A = 254	AC = 314	BB = 304	DB = M16	EG = 38	GD = 8	HB = 207	L = 656	TL = 181
AA = 62	AD = 238	C = 108	E = 110	F = 12	H = 160	HD = 398	LB = 546	
AB = 314	B = 254	D = 42	EB = 90	G = 37	HA = 22	K = 14,50	TB = 181	

## Version

Type.....: HMA4 160L-6  
Design.....: Induction motor  
Standard series.....: IEC 60034  
Phase / Voltage range.....: 3~ / Low

## Electrical design

Efficiency.....: IE4  
Pole.....: 6  
Power at 50 Hz (kW).....: 11,0  
Hz.....: 50  
Voltage.....: 400VD/690VY  
Winding voltage.....: 400VD/690VY 50 Hz  
Power output (kW).....: 11,0  
Duty.....: S1  
Insulation class.....: F  
Temperature rise.....: B

## Mechanical design

Frame size.....: 160  
Mounting.....: B3  
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).....: 150

## Environment condition

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

## Bearing

DE Bearing.....: 6209-ZZ/C3  
NDE Bearing.....: 6209-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.....: M6

## Test values

Rotor inertia (kgm²).....: 0,26  
Noise level (dB(A)).....: 56  
Starting time (sec.).....: 0,10

## 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)	11,0	10,6	13,2	12,8
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)	23,0 13,2	23,6 13,6	23,0 13,2	23,6
Speed (rpm)	980	980	1170	1170
Power factor cos(phi)	0,75	0,76	0,75	0,78
Efficiency, 100/75/50 (%)	92,3/92,2/91,1	92,3/92,2/91,1	92,3/92,2/91,1	91,8/91,7/90,5
Ist/In	7,00	6,15	7,00	6,45
Full load torque (Nm)	108	104	108	104
Tst/Tn	3,00	2,80	3,00	2,60
Tmax/Tn	3,10	2,90	3,10	2,70
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45