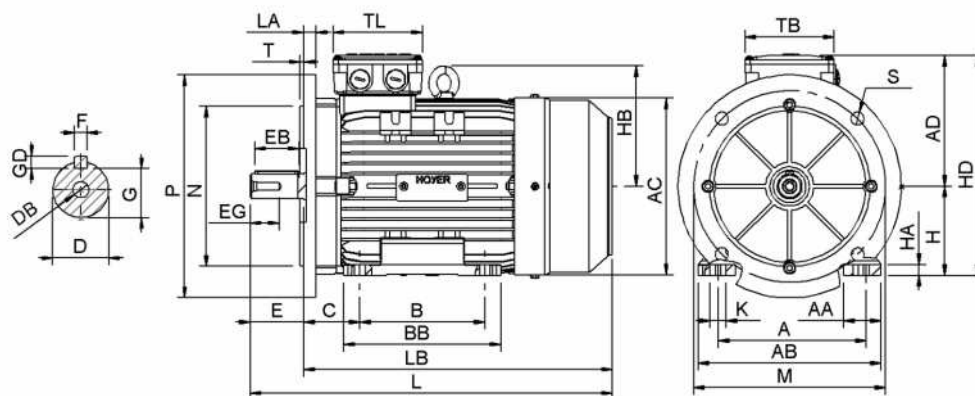


Data Sheet

Itemnumber....: 5541001409



A = 160	AC = 198	BB = 176	DB = M10	EG = 28	GD = 7	HD = 247	LA = 14	N = 180	T = 4
AA = 42	AD = 147	C = 63	E = 60	F = 8	H = 100	K = 12	LB = 346	P = 250	TB = 100
AB = 205	B = 140	D = 28	EB = 50	G = 24	HA = 12	L = 406	M = 215	S = 4-014,5	TL = 100

Version

Type.....: HMA3 100L2-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 3,00
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 3,00
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 100
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).....: 30,0

Environment condition

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

Bearing

DE Bearing.....: 6206-ZZ/C3
NDE Bearing.....: 6206-ZZ/C3
Fixed bearing.....: DE

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M20x1,5
Plastic blindcaps
Accessory.....: 1 x M20x1,5
Plastic blindcap
Connection type.....: Star (Y)
Terminal board thread.....: 6-M4

Test values

Rotor inertia (kgm²).....: 0,012
Noise level (dB(A)).....: 56
No load current (A).....: 3,35
Winding resist. (ohm).....: 0,40
Starting time (sec.).....: 0,03
Temp. rise winding (K).....: 59
Temp. rise surface (K).....: 41

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 Gloss 3
Nameplate.....: Multivoltage
Special packing.....: No
Special requirements.....: No

Rated power (kW)	3,00	2,90	3,60	3,50
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)	10,8 6,20	11,0 6,40	10,8 6,20	6,40
Speed (rpm)	1460	1460	1750	1750
Power factor cos(phi)	0,80	0,81	0,80	0,82
Efficiency, 100/75/50 (%) . .	87,7/87,9/86,4	87,7/87,9/86,4	87,7/87,9/86,4	86,8/87,0/85,4
Ist/In	9,05	7,95	9,05	8,30
Full load torque (Nm)	19,6	19,0	19,6	19,0
Tst/Tn	3,50	3,25	3,50	3,05
Tmax/Tn	3,80	3,55	3,80	3,30
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45