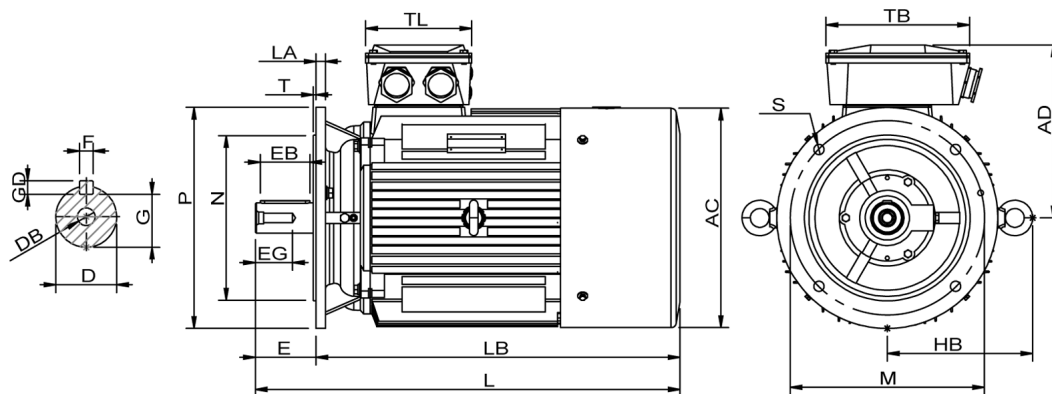


Data Sheet

Itemnumber..... 3241600299



AC = 313	DB = M16	EG = 36	GD = 8	LA = 15	N = 250	T = 5
AD = 277	E = 110	F = 12	HB = 222	LB = 498	P = 350	TB = 218
D = 42	EB = 90	G = 37	L = 608	M = 300	S = 4-Ø18,5	TL = 162

Version

Type..... HMC2 160M-4
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE2
Pole..... 4
Power at 50 Hz (kW)..... 11,0
Hz..... 60 (60 Hz output)
Voltage..... 690VD
Winding voltage..... 690VD 60 Hz
Power output (kW)..... 12,8
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 160
Mounting..... B5
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)..... 125

Environment condition

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

Bearing

DE Bearing..... 6309-ZZ/C3
NDE Bearing..... 6309-ZZ/C3
Fixed bearing..... DE

Terminal box

Tbox position..... Top
Cable entry direction..... Right (from DE)
Cable entry
Main..... 2 x M40x1,5
Ø22-30mm metal
Accessory..... 2 x M20x1,5
Metal blindcaps
Terminal board thread..... 6-M6

Test values

Rotor inertia (kgm²)..... 0,097
Noise level (dB(A))..... 65
No load current (A)..... 4,70
Winding resist. (ohm)..... 1,33
Starting time (sec.)..... 0,08
Temp. rise winding (K)..... 61
Temp. rise surface (K)..... 57

Motor protection

Thermal protection main..... PTC 3x 155 dgr
Thermal protection second..: None
Space heater..... 1x 230V 50W
Temperature detector..... No
SPM..... No
IR wire..... Yes
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

Rated power (kW)	11,0	13,2	12,8
Frequency (Hz)	50	60	60
Voltage (V)	575	690	690
Connection	D	D	D
Full load current (A)	14,0	14,4	14,0
Speed (rpm)	1470	1740	1740
Power factor cos(phi)	0,87	0,87	0,87
Efficiency, 100/75/50 (%)	89,8/ 90,0 /88,6	89,8/ 90,0 /88,6	89,8/ 90,0 /88,6
Ist/In	7,60	7,60	7,85
Full load torque (Nm)	72,0	72,0	70,0
Tst/Tn	2,90	2,90	2,95
Tmax/Tn	3,35	3,35	3,45
Duty	S1	S1	S1
Ambient temp. (°C)	40	40	45