

Data Sheet

Itemnumber..... 5520901109



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|----------|----------|----------|---------|---------|---------|----------|----------|
| A = 140 | AC = 175 | BB = 155 | DB = M8 | EG = 24 | GD = 7 | HD = 222 | LB = 312 |
| AA = 35 | AD = 132 | C = 56 | E = 50 | F = 8 | H = 90 | K = 10 | TB = 100 |
| AB = 177 | B = 125 | D = 24 | EB = 40 | G = 20 | HA = 13 | L = 362 | TL = 100 |

Version

Type..... HMA3 90L-2
Design..... Induction motor
Standard series..... IEC 60034
Phase / Voltage range..... 3~ / Low

Electrical design

Efficiency..... IE3
Pole..... 2
Power at 50 Hz (kW)..... 2,20
Hz..... 50
Voltage..... 230VD/400VY
Winding voltage..... 230VD/400VY 50 Hz
Power output (kW)..... 2,20
Duty..... S1
Insulation class..... F
Temperature rise..... B

Mechanical design

Frame size..... 90
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)..... 19,0

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..... 6205-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..... NA
Terminal board thread..... 6-M4

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
Nameplate..... Multivoltage
Special packing..... No
Special requirements..... No

Test values

Rotor inertia (kgm²)..... 0,0028
Noise level (dB(A))..... 62
No load current (A)..... 2,18
Winding resist. (ohm)..... 2,08
Starting time (sec.)..... 0,04
Temp. rise winding (K)..... 56
Temp. rise surface (K)..... 30

| | | | | |
|---------------------------|------------------|------------------|------------------|------------------|
| Rated power (kW) | 2,20 | 2,14 | 2,65 | 2,55 |
| 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) | 7,70 4,40 | 7,90 4,55 | 7,70 4,40 | 4,55 |
| Speed (rpm) | 2920 | 2920 | 3500 | 3500 |
| Power factor cos(phi) | 0,84 | 0,84 | 0,84 | 0,85 |
| Efficiency, 100/75/50 (%) | 85,9/ 86,8 /86,2 | 85,9/ 86,8 /86,2 | 85,9/ 86,8 /86,2 | 84,9/ 85,9 /85,2 |
| Ist/In | 9,10 | 8,00 | 9,10 | 8,40 |
| Full load torque (Nm) | 7,20 | 7,00 | 7,20 | 7,00 |
| Tst/Tn | 3,25 | 3,05 | 3,25 | 2,80 |
| Tmax/Tn | 3,50 | 3,25 | 3,50 | 3,05 |
| Duty | S1 | S1 | S1 | S1 |
| Ambient temp. (°C) | 40 | 45 | 40 | 45 |