

Data Sheet

Itemnumber.....: 5523551100



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|----------|----------|----------|----------|-----------|---------|-----------|-----------|----------|
| A = 610 | AC = 699 | BB = 750 | DB = M24 | EG = 56 | GD = 12 | HB = 489 | L = 1507 | TL = 330 |
| AA = 116 | AD = 664 | C = 254 | E = 140 | F = 20 | H = 355 | HD = 1019 | LB = 1367 | |
| AB = 726 | B = 630 | D = 75 | EB = 130 | G = 67,50 | HA = 52 | K = 28 | TB = 460 | |

Version

Type.....: HMC3 355L1-2
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 2
Power at 50 Hz (kW).....: 315
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 315
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 355
Mounting.....: B3
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).....: 1.800

Environment condition

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

Bearing

DE Bearing.....: 6319/C3
NDE Bearing.....: 6319/C3
Fixed bearing.....: DE

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M72x2,0
Metal blindcaps
Accessory.....: 2 x M20x1,5
Metal blindcaps
Terminal board thread.....: 6-M16

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).....: 4,20
Noise level (dB(A)).....: 96
No load current (A).....: 108
Winding resist. (ohm).....: 0,0063
Starting time (sec.).....: 0,87
Temp. rise winding (K).....: 71
Temp. rise surface (K).....: 43

| | | | | |
|---------------------------|------------------|------------------|------------------|------------------|
| Rated power (kW) | 315 | 305 | 380 | 365 |
| 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) | 520 305 | 540 310 | 520 305 | 540 |
| Speed (rpm) | 2980 | 2980 | 3580 | 3580 |
| Power factor cos(phi) | 0,91 | 0,91 | 0,91 | 0,92 |
| Efficiency, 100/75/50 (%) | 95,8/ 96,2 /96,0 | 95,8/ 96,2 /96,0 | 95,8/ 96,2 /96,0 | 95,5/ 95,9 /95,7 |
| Ist/In | 6,60 | 5,80 | 6,60 | 6,05 |
| Full load torque (Nm) | 1.000 | 980 | 1.000 | 980 |
| Tst/Tn | 1,68 | 1,56 | 1,68 | 1,46 |
| Tmax/Tn | 2,30 | 2,14 | 2,30 | 2,00 |
| Duty | S1 | S1 | S1 | S1 |
| Ambient temp. (°C) | 40 | 45 | 40 | 45 |