

Data Sheet

Itemnumber.....: 5542000150



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|----------|----------|----------|----------|---------|---------|-----------|----------|----------|
| A = 318 | AC = 396 | BB = 369 | DB = M20 | EG = 50 | GD = 10 | HB = 264 | L = 769 | TL = 192 |
| AA = 70 | AD = 313 | C = 133 | E = 110 | F = 16 | H = 200 | HD = 513 | LB = 659 | |
| AB = 388 | B = 305 | D = 55 | EB = 100 | G = 49 | HA = 25 | K = 18,50 | TB = 260 | |

Version

Type.....: HMC3 200L-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 30,0
Hz.....: 50
Voltage.....: 230VD/400VY
Winding voltage.....: 230VD/400VY 50 Hz
Power output (kW).....: 30,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 200
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).....: 280

Environment condition

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

Bearing

DE Bearing.....: 6312/C3
NDE Bearing.....: 6312/C3
Fixed bearing.....: DE

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M50x1,5
Plastic blindcaps
Accessory.....: 2 x M20x1,5
Plastic blindcaps
Terminal board thread.....: 6-M8

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).....: 0,41
Noise level (dB(A)).....: 61
No load current (A).....: 20,2
Winding resist. (ohm).....: 0,065
Starting time (sec.).....: 0,13
Temp. rise winding (K).....: 57
Temp. rise surface (K).....: 37

| | | | | |
|---------------------------|------------------|------------------|------------------|------------------|
| Rated power (kW) | 30,0 | 29,0 | 36,0 | 35,0 |
| 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) | 92,5 53,0 | 95,5 55,0 | 92,5 53,0 | 55,0 |
| Speed (rpm) | 1480 | 1480 | 1760 | 1760 |
| Power factor cos(phi) | 0,87 | 0,88 | 0,87 | 0,88 |
| Efficiency, 100/75/50 (%) | 93,6/ 93,7 /93,0 | 93,6/ 93,7 /93,0 | 93,6/ 93,7 /93,0 | 93,2/ 93,3 /92,5 |
| Ist/In | 8,20 | 7,20 | 8,20 | 7,55 |
| Full load torque (Nm) | 194 | 188 | 194 | 188 |
| Tst/Tn | 2,90 | 2,65 | 2,90 | 2,50 |
| Tmax/Tn | 3,25 | 3,00 | 3,25 | 2,80 |
| Duty | S1 | S1 | S1 | S1 |
| Ambient temp. (°C) | 40 | 45 | 40 | 45 |