

Data Sheet

Itemnumber.....: 5541801100



A = 279	AC = 354	BB = 349	DB = M16	EG = 40	GD = 9	HB = 237	L = 724	TL = 162
AA = 70	AD = 292	C = 121	E = 110	F = 14	H = 180	HD = 472	LB = 614	
AB = 349	B = 279	D = 48	EB = 100	G = 42,50	HA = 22	K = 14,50	TB = 218	

Version

Type.....: HMC3 180L-4
Design.....: Induction motor
Standard series.....: IEC 60034
Phase / Voltage range.....: 3~ / Low

Electrical design

Efficiency.....: IE3
Pole.....: 4
Power at 50 Hz (kW).....: 22,0
Hz.....: 50
Voltage.....: 400VD/690VY
Winding voltage.....: 400VD/690VY 50 Hz
Power output (kW).....: 22,0
Duty.....: S1
Insulation class.....: F
Temperature rise.....: B

Mechanical design

Frame size.....: 180
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).....: 209

Environment condition

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

Bearing

DE Bearing.....: 6311-ZZ/C3
NDE Bearing.....: 6311-ZZ/C3
Fixed bearing.....: DE

Terminal box

Tbox position.....: Top
Cable entry direction.....: Right (from DE)
Cable entry
Main.....: 2 x M40x1,5
Plastic blindcaps
Accessory.....: 2 x M20x1,5
Plastic blindcaps
Terminal board thread.....: 6-M6

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).....: 0,23
Noise level (dB(A)).....: 74
No load current (A).....: 14,6
Winding resist. (ohm).....: 0,36
Starting time (sec.).....: 0,10
Temp. rise winding (K).....: 53
Temp. rise surface (K).....: 38

Rated power (kW)	22,0	21,4	26,5	25,5
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)	38,5 22,4	40,0 23,0	38,5 22,4	40,0
Speed (rpm)	1470	1470	1760	1760
Power factor cos(phi)	0,88	0,89	0,88	0,90
Efficiency, 100/75/50 (%)	93,0/ 93,6 /92,4	93,0/ 93,6 /92,4	93,0/ 93,6 /92,4	92,5/ 93,2 /91,9
Ist/In	8,60	7,55	8,60	7,90
Full load torque (Nm)	142	138	142	138
Tst/Tn	2,80	2,60	2,80	2,44
Tmax/Tn	3,55	3,30	3,55	3,05
Duty	S1	S1	S1	S1
Ambient temp. (°C)	40	45	40	45