

DATA SHEET**MODEL : HML100A**

D.S.156 02.02.0

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1. BASIC DATA**1.1 OPERATION:**

Application:	LBP
Refrigerant:	R600a
Expansion device:	Capillary tube
Cooling:	Static
Evaporating Temperature Range:	-35 to -10°C
Max Ambient Temperature:	43°C (110°F)
Max Operating Discharge Temperature ⁽¹⁾ :	120°C (248°F)
Max Peak Discharge Temperature ^(1, 2) :	135°C (275°F)
Max Operating Condensing Temperature:	60°C (140°F)
Max Peak Condensing Temperature ⁽²⁾ :	70°C (158°F)
Max Winding Temperature:	130°C (266°F)
Max Impurities:	30 mg
Max Water Content:	100 mg

1.2 COMPRESSOR

Displacement:	6 .3cc
Cylinder Bore:	19.8 mm
Stroke:	20.4 mm
Net Weight ⁽³⁾ :	6.3 Kg
Shell size:	152 mm
Oil charge:	140 cc
Oil Type:	WF5A
Oil viscosity ⁽⁴⁾ :	5 cSt
Suction system:	Semi-Direct

1.3 MOTOR

Power supply:	220-240 V
Voltage limits:	187 - 264 V
Frequency:	50 Hz
Phase:	1
Motor Type:	RSCR
Electrical Insulation Class:	B
Main Winding Resistance at 20°C (68°F):	35.64 Ω
Start Winding Resistance at 20°C (68°F):	36.57 Ω

(1) Measured at 5 cm from the shell with insulated termocouples

(2) For transient conditions during "Pull Down"

(3) With oil and without external electricals

(4) Measured at 40°C (104°F)

1.4 ELECTRICALS**Motor-protector**

Manufacturer:	TIAN YIN
Type:	ZHB48-125P15*
Open temperature °C:	120-130
Close temperature °C:	48-66
U.T.C. A:	1.35±15%(70°C)
Time check current at 25°C A:	4.8
Max current A:	9.6

PTC starting device

Manufacturer:	TIAN YIN
Type:	ZHB48-125P15*

Connecting-board

Type:	GD,GDI,GD-3
Fast-on size:	4.8 or 6.3 mm

Run capacitor

Type	plastic or metallic case
Capacitance	2uF
Vmax	400 V
Working hours	Depends on customer needs

2. CALORIMETER DATA

2.1 Calorimeter test with capacitor	Evaporating Temperature/Condensing Temperature (°C)			
	-30/55°C	-23.3/55°C	-10/55°C	-27/40°C
Cooling Capacity (W)	/	110	/	/
Input Power (W)	/	77	/	/
COP (W/W)	/	1.42	/	/
Current (A)	/	0.46	/	/

Test conditions according to ASHRAE:

Subcooling temperature:	+32°C	Cooling:	Static cooling
Superheating temperature:	+32°C	Supply Voltage:	220 V
Suction temperature:	+32°C	Supply Frequency:	50 Hz
Room temperature:	+32°C	Run capacitor	2uF

3. OTHER PERFORMANCES

3.1 Starting test with capacitor	Motor Temp. / Equalized Press.	
	90°C / 3 Bar A	43°C / 3.5 Bar A
Min. Starting Voltage (V)	148	141

According to ACC-CQ-PRO-99016.D

3.2 Acoustic test	-25/+55°C	-20/+50°C	-23.3/+40°C
	ISO3745	GB9098	USA STD
A-weighted SWL (dBA)	/	36	/
Vibration (m/s ²)	/	0.36	/
Gas pulse level TPI (mBar)	/	/	/

3.3 Life test	Wear	High Temp.	On Off
	1000 h	2000 h	500 KCycles
Test Results	PASS	PASS	PASS

Wear Test according to CECOMAF GT4003

High Temperature Test according to CECOMAF GT4002

On Off Test according to CECOMAF GT4004

3.4 Transport test	2 h - 0.75m/s ²		
	x - 3.25 grms	y - 7.5 grms	z - 11.5 grms
Test Results	PASS	PASS	PASS

According to GB/T 4857.10-92

4. COMPRESSOR OUTLINE

Front View Scale: 1:2

Top View Scale: 1:2

Left View Scale: 1:2

Terminal Fence Scale: 1:2

Water Tray Clip Scale: 1:2

Flat Strap Scale: 1/10

海信集团专用：预装启动器和保护器

Rubber Shock Absorber 橡胶减震器

Outline Code	X	Y	Z	H	A	Terminal Fence	Water Tray Clip	Rubber Shock Absorber
C808 330 001				152				
C808 330 002				161	102	C805012001		
C808 330 003	6.1	6.1		164				
C808 330 004			4.2	152				
C808 330 005				161				
C808 330 006				164				
C808 330 007				152	111	C805033003	with	with
C808 330 008	6.5	6.5		161				
C808 330 009				164				
C808 330 010				152				
C808 330 011	6.1	6.1	4.9	161				
C808 330 012				164				
C808 330 013				152				without
C808 330 014	6.1	6.1	4.2	161				with
C808 330 015				164	102	C805012001	without	
C808 330 016			4.9	152				
C808 330 017	6.1	6.1		161				
C808 330 018				164				

Dimensions:

- Front View: 105 ±0.2, 24.8 ±0.1, 20, 53.7 ±0.4, 16°, 65.2 ±0.5, 77.6 ±0.2, 10^{+0.3} 0
- Top View: 140, 70.2 ±0.4, 113.8 ±0.4, 123.8 ±0.4, 86.7 ±0.4, 40.9 ±0.8, 56.7 ±0.6
- Left View: 204, 170, 70, 100

Terminal Fence Details:

- C805033003: WITH TERMINAL FENCE IN MM
- C805012001: WITHOUT TERMINAL FENCE IN MM

Water Tray Clip Details:

- WITH TERMINAL FENCE IN MM
- WITHOUT TERMINAL FENCE IN MM

Flat Strap Details:

- 204, 170, 70, 100

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