

DATA SHEET**MODEL : HML125A**

D. S. 139 02.01.0

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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:	7 cc
Cylinder Bore:	22.8 mm
Stroke:	17.2 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
Locked Rotor Current at 220V-Max value with RC:	7.0A
Locked Rotor Current at 220V-After 4s with RC:	3.2A
Main Winding Resistance at 20°C (68°F):	35.6 Ω
Start Winding Resistance at 20°C (68°F):	36.6 Ω

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

(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%
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	2 uF
Vmax	400 V
Working hours	Depends on customer needs

2. CALORIMETER DATA

2.1 Calorimeter test	Evaporating Temperature/Condensing Temperature (°C)			
	-30/55°C	-23.3/55°C	-10/55°C	-27/40°C
Cooling Capacity (W)	/	123	/	/
Input Power (W)	/	84.8	/	/
COP (W/W)	/	1.45	/	/
Current (A)	/	0.52	/	/

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	2 uF

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)	165	165

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)	/	37	/
Vibration (m/s ²)	/	0.47	/
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		
	x - 0.52 grms	y - 0.52 grms	z - 0.73 grms
Test Results	PASS	PASS	PASS

According to ASTM D 4728-2006

