

DATA SHEET
MODEL : OF789
E.R. 10308.1

2012 生产文件 第一版
2012 PRODUCTION
DOCUMENT FIRST EDITION

2012 年 7 月 19 日

Edited <u>Zhao Xiuling</u>	Checked <u>Wang Yi</u>	Approved <u>Edoardo.biscaldi</u>	Edition <u>1</u>
-------------------------------	---------------------------	-------------------------------------	---------------------

1. BASIC DATA

1.1 OPERATION:

Application:	LBP
Refrigerant:	R134a
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:	3.9 cc
Cylinder Bore:	18 mm
Stroke:	15.2 mm
Net Weight ⁽³⁾ :	7.7 Kg
Shell size:	Mini(see outline drawing)
Oil charge:	170 cc
Oil Type:	RL 9 EB
Oil viscosity ⁽⁴⁾ :	9 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:	RSIR
Electrical Insulation Class:	B
Locked Rotor Current at 240 V- Max value without RC:	9.0 A
Locked Rotor Current at 240 V- After 4 s without RC:	3.7 A
Main Winding Resistance at 20°C (68°F):	30.71 Ω
Start Winding Resistance at 20°C (68°F):	19.06 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:	WANBAO	SENSATA
Type:	B45 120	4TM 189NFBYY
Open Temperature°C:	115-125	115-125
Close Temperature°C:	70-52	70-52
U.T.C. at A:	1.35 (70°C)	1.35 (70°C)
Time Check Current A:	4.5 (7.5-14s)	5.6 (7.5-14s)
Max Current A:	10	12.2
Code:		

PTC starting device

Assembly type	ZEM2 or K100	
PTC Pill:	Siemens	Murata
	A196	PTH 422B111AR120Q351P
Resistance at 25°C, 100V:	11-19 Ohm	9-16 Ohm
V max:	350 V	350 V
I max:	8 A	8 A
Curie temp.	120°C	120°C
Dimensions:	20 mm (diameter), 3.2 mm (thickness)	20 mm (diameter), 3.3 mm (thickness)

PTC +protector (Device"COMBO")

Manufacturer:	SENSATA
Type:	C2-189NFB YY-XXX

Connecting-board

Type	ZEM2 or ECC
Fast-on size	4.8 or 6.3 mm

2. CALORIMETER DATA

2.1 Calorimeter test	Evaporating Temperature °C)		
	-30	-23.3	-10
Cooling Capacity (W)	69	107	200
Input Power (W)	78	94	127
COP (W/W)	0.88	1.14	1.57
Current (A)	0.6	0.69	0.8

Test conditions according to ASHRAE:

Condensing temperature:	+55°C	Cooling:	Static cooling
Subcooling temperature:	+32°C	Supply Voltage:	220 V
Superheating temperature:	+32°C	Supply Frequency:	50 Hz
Suction temperature:	+32°C	Run capacitor	---
Room temperature:	+32°C		

3. OTHER PERFORMANCES

3.1 Starting test	Motor Temp. / Equalized Press.	
	90°C / 5 Bar A	43°C / 6.5 Bar A
Without Capacitor		
Min. Starting Voltage (V)	146	155

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 SPL (dBA)		39.5	
Vibration Level (dB)			
Vibration Index TVI (mm/s ²)		0.32	
Gas pulse level TPI (mBar)			

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

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 - 0,75 m/s ²		
	x - 3.25 Hz	y - 7.5 Hz	z - 11.5 Hz
Test Results		NA	

According to GB / T4857.10-92

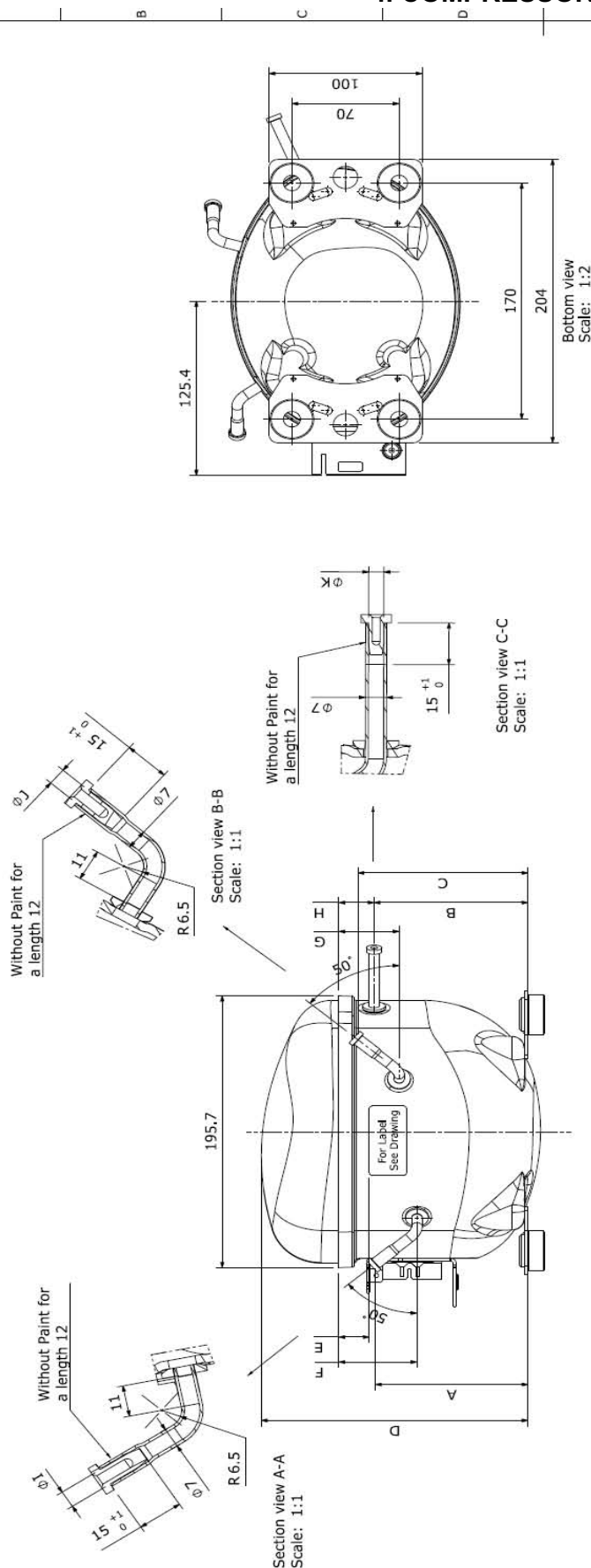
3.5 oil transport test	Oil flow (g/h)
	Test Results
	NA

According to ACC-CQ-ES-99002.D

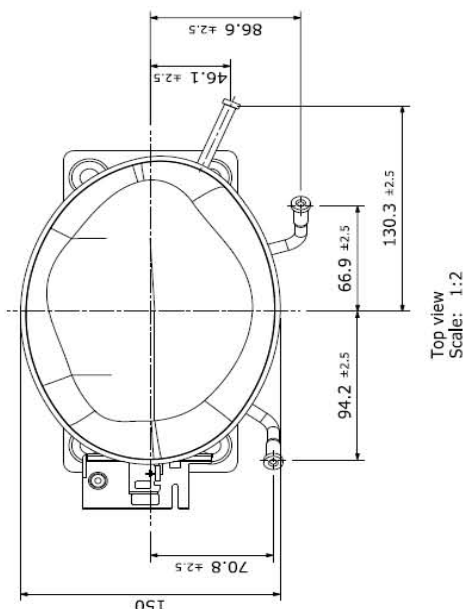
3.5 Impact test	
Test Results	NA

According to ECC-CQ-W-01042

4. COMPRESSOR OUTLINE



TYPE OF SHELL	$A_{2,5}^{+2,5}$	$B_{2,5}^{+2,5}$	$C_{2,5}^{+2,5}$	$D_{2,5}^{+2,5}$	E		$F_{-0,4}^{+0,4}$	$G_{0,4}^{+0,4}$	H_0^{+1}	$I_0^{+0,1}$	$J_0^{+0,1}$	$K_{2,0,1}^0$
					R600	R134a						
MINI	88.4	89.3	99.8	162.8	15	15				6.5	6.5	
MEDIUM					15	20	51	39.3	23	6.1	6.1	
MEDIUM_NS	99.6	100.5	111	174						6.5	6.5	
					19	24	55	43.3	27	6.1	6.1	
HIGH					20	30	51	39.3	23	6.5	6.5	
	109.6	110.5	121	184						6.1	6.1	
HIGH_NS					24	34	55	43.3	27	6.5	6.5	
					30	30	51	39.3	23	6.1	6.1	
SUPPER	119.6	120.5	131	194	30	30	51	39.3	23	6.5	6.5	

[illegible]