

DATA SHEET

MODEL : GVY40AA rv
E.R. 10200

2010年版
EDITION

第一版
FIRST EDITION

生产文件
PRODUCTION DOC.

2010年6月28日

Edited <u>Zhao Xiuling</u>	Checked <u>Wang Yi</u>	Approved <u>Edoardo.biscaldi</u> <i>Edoardo.biscaldi</i> 4/26/2010	Edition <u>0</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:	4.0 cc
Cylinder Bore:	18 mm
Stroke:	15.2 mm
Net Weight ⁽³⁾ :	9.0 Kg
Shell size:	Middle(See Outline drawing)
Oil charge:	200 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/RSCR
Electrical Insulation Class:	B
Locked Rotor Current at 220 V- Max value with RC:	9.0A
Locked Rotor Current at 220 V- After 4 s with RC:	3.8A
Locked Rotor Current at 220 V- Max value without RC:	8.0A
Locked Rotor Current at 220 V- After 4 s without RC:	3.6A
Main Winding Resistance at 20°C (68°F):	20.8 Ω
Start Winding Resistance at 20°C (68°F):	25.7 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:	ELECTRICA	SENSATA
Type:	T0602/XX	4TM 189NFBYY
Open Temperature°C:	115-125	115-125
Close Temperature°C:	70-52	70-52
U.T.C. at A:	1.32 (70°C)	1.35 (70°C)
Time Check Current A:	4.5 (7.5-14s)	5.6 (5-15s)
Max Current A:	10	12

PTC starting device

Assembly type	ZEM2 or K100	
PTC Pill:	Siemens A196	Murata 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)

Connecting-board

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

2. CALORIMETER DATA

2.1 Calorimeter test with Capacitor	Evaporating Temperature °C)		
	-30	-23.3	-10
Cooling Capacity (W)	64	109	229
Input Power (W)	62	76	113
COP (W/W)	1.03	1.43	2.03
Current (A)	0.4	0.42	0.52

2.1 Calorimeter test without Capacitor	Evaporating Temperature °C)		
	-30	-23.3	-10
Cooling Capacity (W)	64	108	223
Input Power (W)	66	80	119
COP (W/W)	0.97	1.35	1.87
Current (A)	0.57	0.59	0.73

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	3 µ F
Room temperature:	+32°C		

3. OTHER PERFORMANCES

3.1 Starting test Without Capacitor	Motor Temp. / Equalized Press.	
	90°C / 5 Bar A	43°C / 6.5 Bar A
Min. Starting Voltage (V)		157

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)		37.0	
Vibration Level (dB)			
Vibration Index TVI (mm/s)		0.2	
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

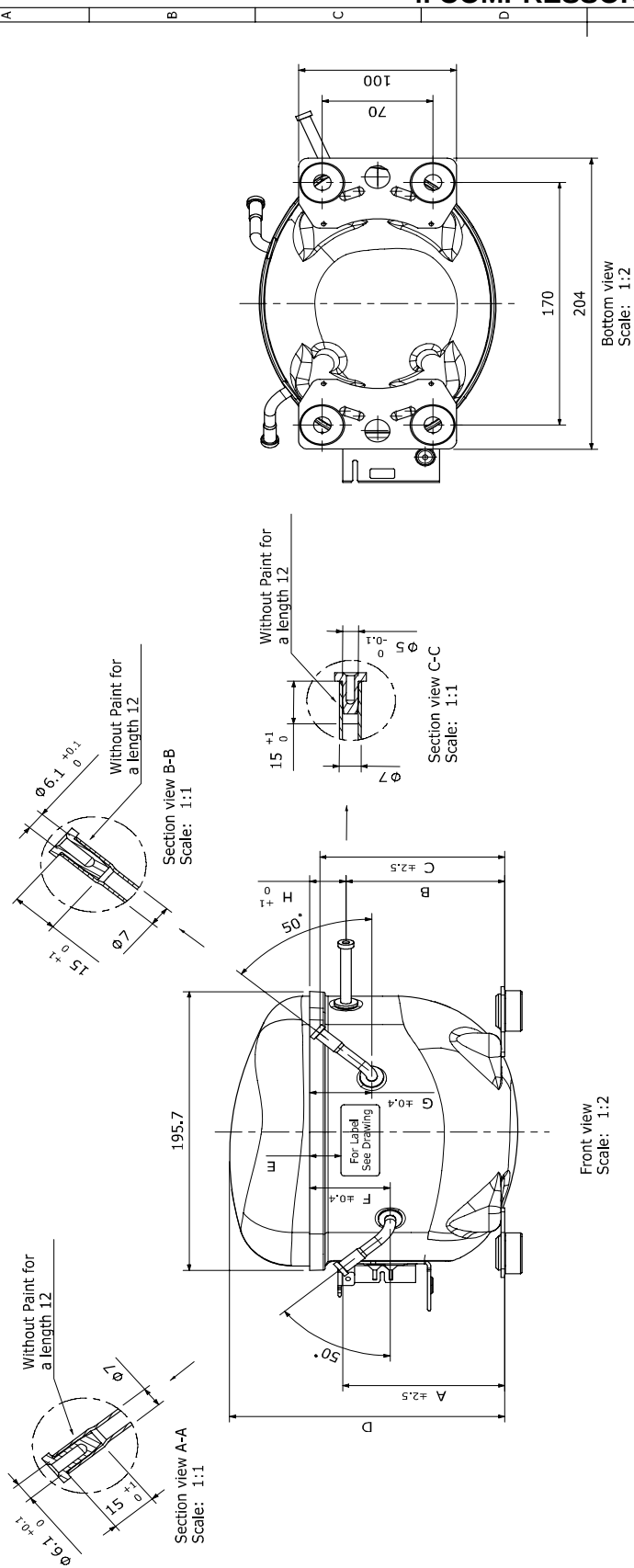
3.5 oil transport test	Oil flow (g/h)
	Test Results
	NA

According to ACC-CQ-ES-99002.D

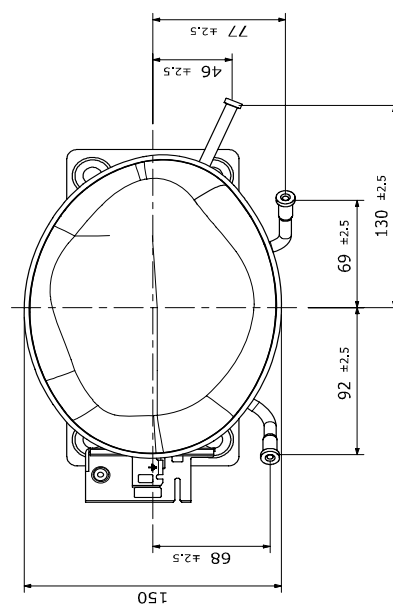
3.5 Impact test	
Test Results	NA

According to ECC-CQ-W-01042

4. COMPRESSOR OUTLINE



	TYPE OF SHELL	$F^{40,4}$	$G^{40,4}$	H_0^{+1}	$A^{42,5}$	$B^{42,5}$	$C^{43,5}$	$D^{43,5}$	E	
									R600	R134a
	MINI	51	39.3	23	88.5	89.5	103.5	163.5	15	15
	MEDIUM	51	39.3	23	99	101	115	174	15	20
	MEDIUM_NS	55	43.3	27					19	24
	HIGH	51	39.3	23	109	111	125	184	20	30
	HIGH_NS	55	43.3	27					24	34
	SUPPER	51	39.3	23	119	121	135	194	30	30



01	Update Drawing	REVISION	THE VALUE IS TO COMPLY WITH THE DESIGN SYSTEMS IN THE DRAWING. THE USER SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THE SYSTEMS IN THE DRAWING. SAFETY UNIT DIMENSION DATE: JUNE 2017 DESIGN: JAMES MODEL: JEL7 TELEPHONE: 15208015 DESCRIPTION: 15208015 / 15201101 GENERAL TOLERANCE: ISO2768-mS SCALE: 1:2 WETTING: - SHEET: 42 1/1 REV
01	Update Drawing	REVISION	THE VALUE IS TO COMPLY WITH THE DESIGN SYSTEMS IN THE DRAWING. THE USER SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THE SYSTEMS IN THE DRAWING. SAFETY UNIT DIMENSION DATE: JUNE 2017 DESIGN: JAMES MODEL: JEL7 TELEPHONE: 15208015 DESCRIPTION: 15208015 / 15201101 GENERAL TOLERANCE: ISO2768-mS SCALE: 1:2 WETTING: - SHEET: 42 1/1 REV