

DATA SHEET
MODEL : GVY66AA
E.R. 10269.2

2012 生产文件 第一版
2012 PRODUCTION
DOCUMENT FIRST EDITION

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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:	6.6 cc
Cylinder Bore:	20.6 mm
Stroke:	19.8 mm
Net Weight ⁽³⁾ :	8.8 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:	12.5A
Locked Rotor Current at 220 V- Max value without RC:	13.2A
Locked Rotor Current at 220 V- After 4 s with RC:	5.9A
Locked Rotor Current at 220 V- After 4 s without RC:	6.0A
Main Winding Resistance at 20°C (68°F):	16.55 Ω
Start Winding Resistance at 20°C (68°F):	15.9 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:	ELECTRICA	WANBAO	SENSATA
Type:	T0530	B88-110	C2/4TM 293 NFBYY
Open Temperature°C:	105-115	105-115	115-125
Close Temperature°C:	70-52	70-52	70-52
U.T.C. at A:	2.4	2.4	2.15 (70°C)
Time Check Current A:	8.8	8.8	10 (5-15s)
Max Current A:	18	18	21.6

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)

Run capacitor (optional)

Type	plastic or metallic case
Capaci	4 μ F
Vmax	450V
Working hours	10000h

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)	114	192	403
Input Power (W)	106	129	192
COP (W/W)	1.08	1.49	2.10
Current (A)	0.63	0.66	0.8

2.1 Calorimeter test without Capacitor	Evaporating Temperature °C)		
	-30	-23.3	-10
Cooling Capacity (W)	112	190	399
Input Power (W)	111	135	201
COP (W/W)	1.01	1.41	1.99
Current (A)	0.85	0.88	1.06

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	4 μ F

Room temperature: +32°C

3. OTHER PERFORMANCES

3.1 Starting test with / Without Capacitor	Motor Temp. / Equalized Press.	
	90°C / 5 Bar A	43°C / 6.5 Bar A
Min. Starting Voltage (V)		170 / 176

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)		41.0	
Vibration Level (dB)			
Vibration Index TVI (mm/s)		0.4	
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

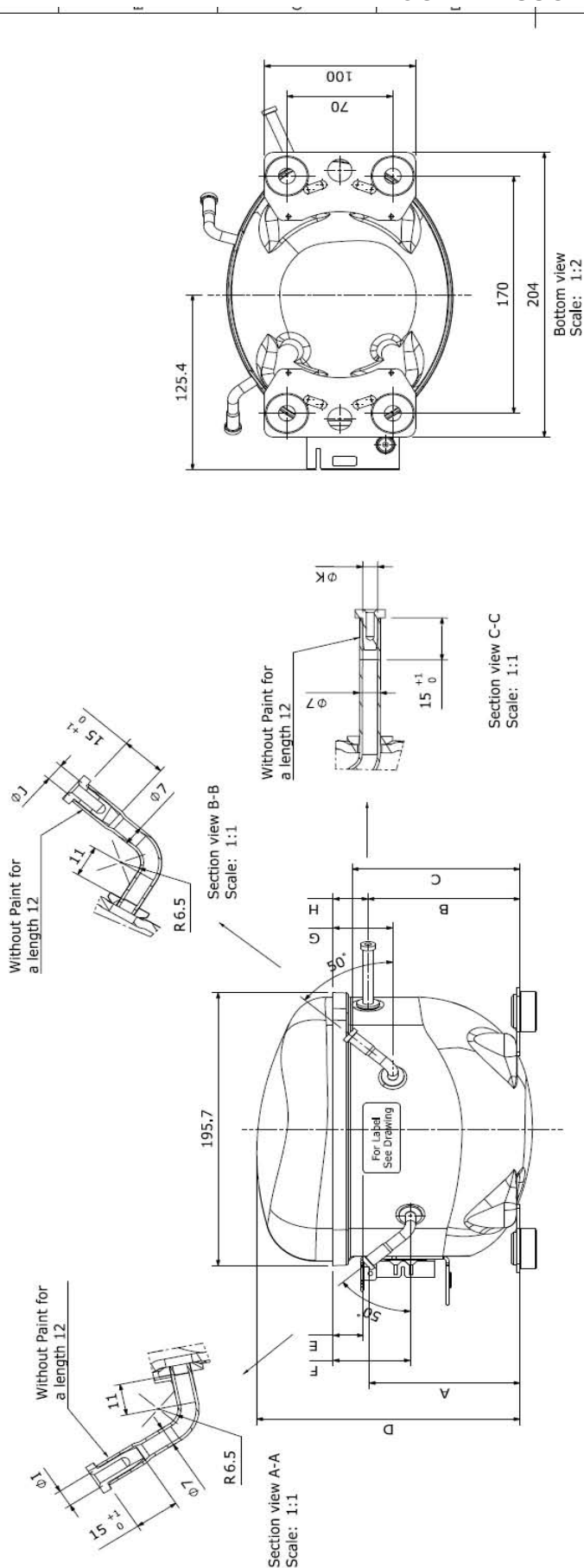
3.5 oil transport test	Oil flow (g/h)
	Test Results
	NA

According to ACC-CQ-ES-99002.D

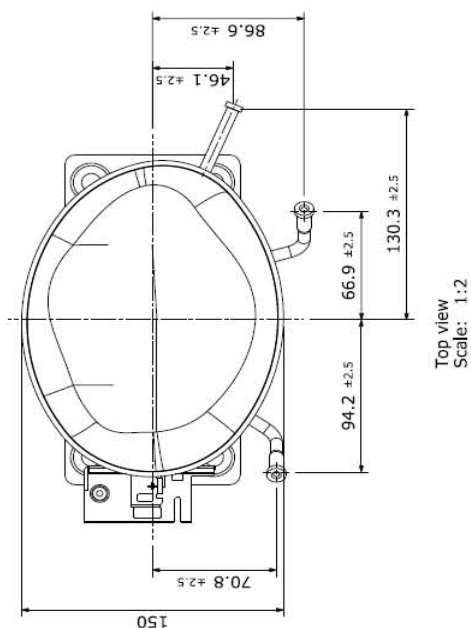
3.5 Impact test	
Test Results	NA

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 _{4,5} ^{+0,4}	G _{3,5} ^{+0,4}	H ₀ ⁺¹	I _{0,1} ^{+0,1}	J _{0,1} ^{+0,1}	K _{0,1} ⁰
					R600	R134a						
MINI	88,4	89,3	99,8	162,8	15	15	51	39,3	23	6,5	6,5	
MEDIUM					20					6,1	6,1	
MEDIUM_NS	99,6	100,5	111	174	19	24	55	43,3	27	6,5	6,5	
HIGH					20	30	51	39,3	23	6,5	6,5	
HIGH_NS	109,6	110,5	121	184	24	34	55	43,3	27	6,1	6,1	
SUPPER	119,6	120,5	131	194	30	30	51	39,3	23	6,5	6,5	

[illegible]