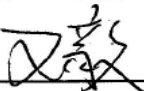
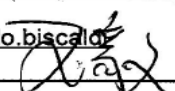


DATA SHEET

MODEL : GVY44AA    a  
E.R. 10269



2011年2月21日

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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 <sup>(1)</sup> :	120°C ( 248°F )
Max Peak Discharge Temperature <sup>(1, 2)</sup> :	135°C ( 275°F )
Max Operating Condensing Temperature:	60°C ( 140°F )
Max Peak Condensing Temperature <sup>(2)</sup> :	70°C ( 158°F )
Max Winding Temperature:	130°C ( 266°F )
Max Impurities:	30 mg
Max Water Content:	100 mg

### 1.2 COMPRESSOR

Displacement:	4.4 cc
Cylinder Bore:	18 mm
Stroke:	17.2 mm
Net Weight <sup>(3)</sup> :	8.8 Kg
Shell size:	Middle( See Outline drawing)
Oil charge:	200 cc
Oil Type:	RL 9 EB
Oil viscosity <sup>(4)</sup> :	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:	9.8A
Locked Rotor Current at 220 V- After 4 s with RC:	4.4A
Locked Rotor Current at 220 V- Max value without RC:	11.65A
Locked Rotor Current at 220 V- After 4 s without RC:	4.5A
Main Winding Resistance at 20°C ( 68°F ):	23.55 Ω
Start Winding Resistance at 20°C ( 68°F ):	13 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:	T0730/XX	B80-120	C2/4TM 276 NFBYY
Open Temperature°C:	120-130	115-125	115-125
Close Temperature°C:	70-52	71-53	70-52
U.T.C. at A:	2 (70°C)	1.7 (70°C)	1.96 (70°C)
Time Check Current A:	7.5(7.5-14s)	8 (7.5-14s)	9 (5-15s)
Max Current A:	20	17.5	17.4

### 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)

### 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)	77	131	275
Input Power (W)	76	92	137
COP (W/W)	1.01	1.41	2.01
Current (A)	0.53	0.55	0.67

2.1 Calorimeter test without Capacitor	Evaporating Temperature °C)		
	-30	-23.3	-10
Cooling Capacity (W)	75	129	271
Input Power (W)	81	98	146
COP (W/W)	0.93	1.32	1.87
Current (A)	0.69	0.72	0.87

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	Motor Temp. / Equalized Press.	
	90°C / 5 Bar A	43°C / 6.5 Bar A
Min. Starting Voltage (V)		151 (With Capacitor)
		154 (Without Capacitor)

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 <sup>2</sup> )		0.3	
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 <sup>2</sup>		
	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)
	NA

According to ACC-CQ-ES-99002.D

3.5 Impact test	
Test Results	NA

According to ECC-CQ-W-01042

## 4. COMPRESSOR OUTLINE

