DATA SHEET

MODEL : GDL200A

D.S.172 16.01.0

Edited	Checked	Approved	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:	7 cc
Cylinder Bore:	22.8 mm
Stroke:	17.2 mm
Net Weight(3):	7.5 Kg
Shell size:	164 mm
Oil charge:	140 cc
Oil Type:	RL9EB
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:	RSCR
Electrical Insulation Class:	B
Locked Rotor Current at 220V-Max value with RC:	13A
Locked Rotor Current at 220V-After 4s with RC:	5.6A
Main Winding Resistance at 20°C (68°F):	18.4 Ω
Start Winding Resistance at 20°C (68°F):	11.8 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:	TIAN YIN
Type:	ZHB73-120P15*
Open temperature ℃:	115-125
Close temperature ℃:	48-66
U.T.C. A:	1.83±15%(70℃)
Time check current at 25℃ A:	7.3
Max current A:	16

PTC starting device

Manufacturer:	TIAN YIN
Type:	ZHB73-120P15*

Connecting-board

Type:	GD，GDI,GD-3
Fast-on size:	4.8 or 6.3 mm

Run capacitor

Type	plastic or metallic case
Capacitance	4uF
Vmax	400V
Working hours	Depends on customer needs

2. CALORIMETER DATA

2.1 Calorimeter test with capacitor		Evaporating Temperature/Condensing Temperature (°C)			
		-30/55°C	-23.3/55°C	-10/55°C	-23.3/40.5°C
Cooling Capacity	(W)	/	205	/	/
Input Power	(W)	/	134	/	/
COP	(W/W)	/	1.53	/	/
Current	(A)	/	0.79	/	/

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	4 uF

3. OTHER PERFORMANCES

3.1 Starting test	Motor Temp. / Equalized Press.	
with capacitor	90°C / 5 Bar A	43°C / 6.5 Bar A
Min. Starting Voltage (V)	162	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)	/	41	/
Vibration (m/s^2)	/	0.5	/
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

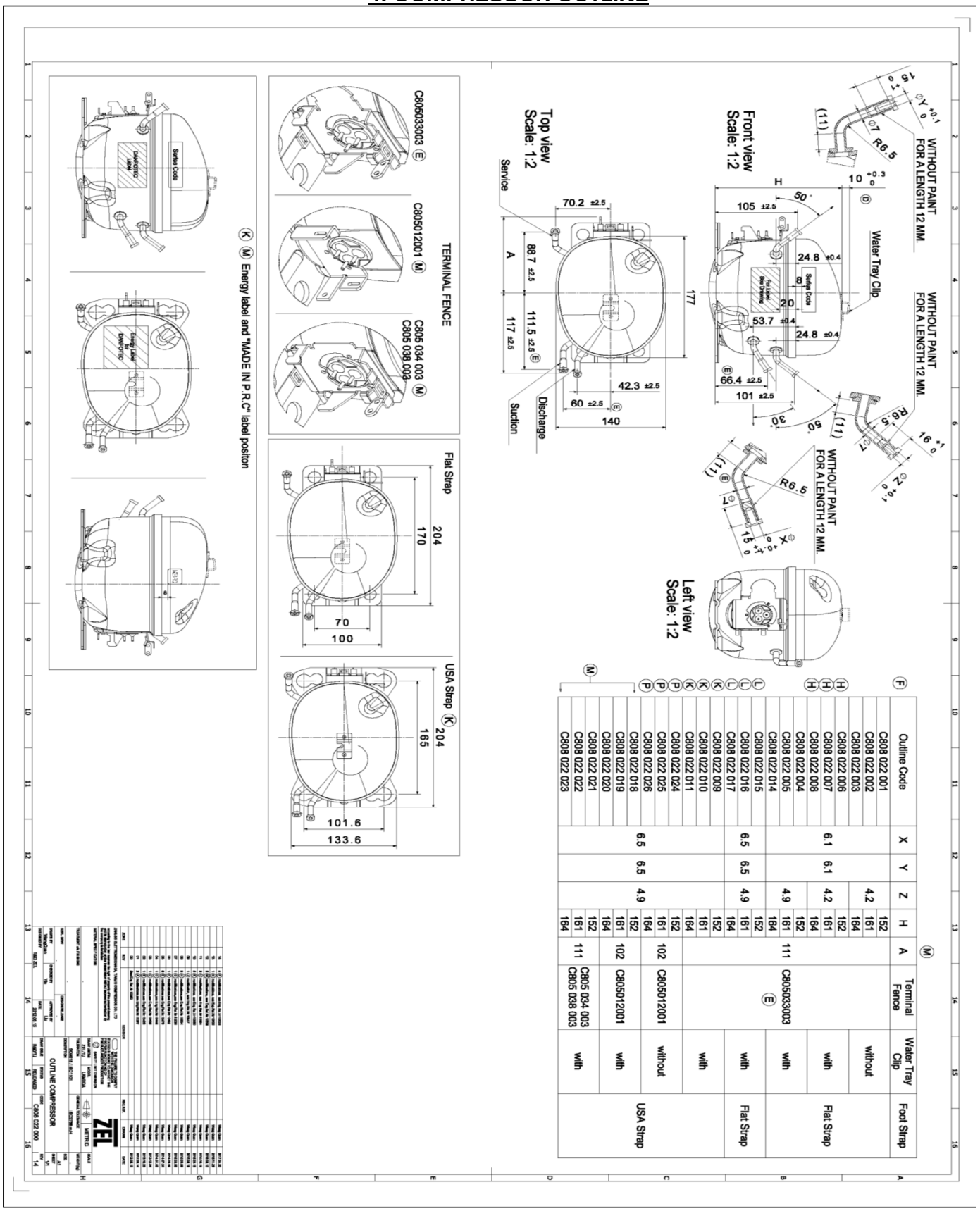
High Temperature Test according to CECOMAF GT4002

On Off Test according to CECOMAF GT4004

3.4 Transport test	2 h - 0.75m/s^2		
	x - 3.25 grms	y - 7.5 grms	z - 11.5 grms
Test Results	PASS	PASS	PASS

According to GB/T 4857.10-92

4. COMPRESSOR OUTLINE



Outline Code	X	Y	Z	H	A	Terminal Fence	Water Tray Clip	Foot Strap
C808 022 001			4.2	152			without	
C808 022 002				161				
C808 022 003				164				
C808 022 006				152				
C808 022 007	6.1	6.1	4.2	161			with	Flat Strap
C808 022 008				164				
C808 022 004				152				
C808 022 005			4.9	161	111	C805033003 (E)	with	
C808 022 014				164				
C808 022 015				152				
C808 022 016	6.5	6.5	4.9	161			with	Flat Strap
C808 022 017				164				
C808 022 009				152				
C808 022 010				161				
C808 022 011				164			with	
C808 022 024				152				
C808 022 025				161				
C808 022 026				164	102	C805012001 (E)	without	
C808 022 018	6.5	6.5	4.9	152				USA Strap
C808 022 019				161				
C808 022 020				164	102	C805012001 (M)	with	
C808 022 021				152				
C808 022 022				161	111	C805 034 003 C805 038 003 (M)	with	
C808 022 023				164				