# DATA SHEET

## MODEL : GXL200A

D.S.177 00.03.0

| 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: | 6.5 cc |
| Cylinder Bore: | 22.8 mm |
| Stroke: | 16 mm |
| Net Weight(3): | 7.8 Kg |
| Shell size: | 164 mm |
| Oil charge: | 120 cc |
| Oil Type: | RL9EB |
| Oil viscosity(4): | 9 cSt |
| Suction system: | Direct |

## 1.3 MOTOR

| | |
|---|---|
| Power supply: | 220~240 V |
| Voltage limits: | 187~264 V |
| Frequency: | 50 Hz |
| Phase: | 1 |
| Motor Type: | RSCR |
| Motor Code: | C077 |
| Electrical Insulation Class: | B |
| Locked Rotor Current at 220V-Max value with RC: | 8.7A |
| Locked Rotor Current at 220V-After 4s with RC: | 4.5A |
| Main Winding Resistance at 20°C ( 68°F ): | 18.1Ω |
| Start Winding Resistance at 20°C ( 68°F ): | 21.4Ω |

*(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: | SEN BAO |
| Type: | BT67-120*61D* |
| Open temperature ℃: | 115-125 |
| Close temperature ℃: | 70-52 |
| U.T.C. A: | 1.62(70℃) |
| Time check current at 25℃ A: | 6.7 |
| Max current A: | 15.0 |

**PTC pill**

| | |
|---|---|
| Manufacture: | EPCOS |
| Type: | A590 |
| Resistance at 25℃,100V: | 19.2-28.8 Ohm |
| V max: | 350 V |
| I max: | 8 A |
| Curie temp. | 100°C |
| Dimensions: | 16±0.2 mm (diameter),<br>3.2±0.2 mm (thickness) |

**PTC starting device**

| | |
|---|---|
| Manufacturer: | TIAN YIN |
| Type: | BQP2-22 |

**Connecting-board**

| | |
|---|---|
| Type: | GD |
| Fast-on size: | 4.8 or 6.3 mm |

**Run capacitor**

| | |
|---|---|
| Type | plastic or metallic case |
| Capacitance | 5uF |
| Vmax | 400V |
| Working hours | Depends on customer needs |

## 2. CALORIMETER DATA

| **2.1 Calorimeter test** | | Evaporating Temperature/Condensing Temperature (°C) | | | |
|---|---|---|---|---|---|
| **with capacitor** | | -30/55°C | -23.3/55°C | -10/55°C | -23.3/40.5°C |
| Cooling Capacity | (W) | / | 200 | / | / |
| Input Power | (W) | / | 118 | / | / |
| COP | (W/W) | / | 1.70 | / | / |
| Current | (A) | / | 0.52 | / | / |

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 | 5uF |

## 3. OTHER PERFORMANCES

| **3.1.1 Starting test** | Motor Temp. / Equalized Press. | |
|---|---|---|
| with capacitor | 90°C / 5 Bar A | 43°C / 6.5 Bar A |
| Min. Starting Voltage (V) | 162 | 164 |

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) | / | 42 | / |
| Vibration ($m/s^2$) | / | 0.50 | / |
| 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 |
| (Test Report) | RD2014-01-038 | RD2014-02-038 | RD2014-03-031 |

Wear Test according to CECOMAF GT4003

High Temperature Test according to CECOMAF GT4002

On Off Test according to CECOMAF GT4004

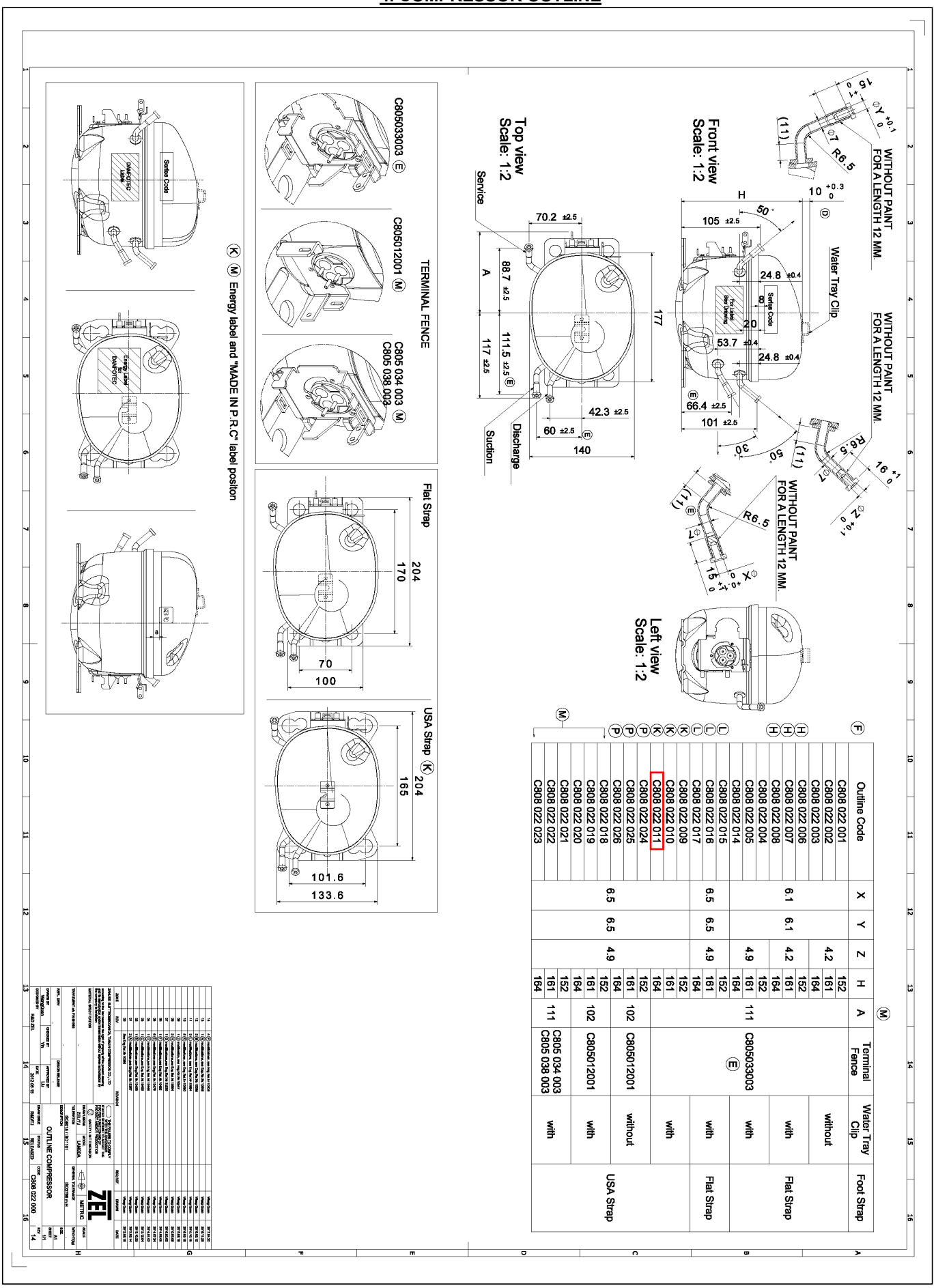
| **3.4 Transport test** | 2 h - 0.75m/s² | | |
|---|---|---|---|
| | x - 3.25 grms | y - 7.5 grms | z - 11.5 grms |
| Test Results | PASS | PASS | PASS |
| | R&D/L_014_11 | | |

According to GB/T 4857.10-92

| **3.5 oil transport test** | Oil flow |
|---|---|
| | (g/h) |
| Test Results | N/A<br><4g |

According to ACC-CQ-ES-99002.D

## 4. COMPRESSOR OUTLINE




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