



Refrigeration Compressor

BCLBH170F-DJ

208~230V/1Ph/60Hz
R22

Compressor Technical Specifications

INDEX

- 1. Compressor Type.....
- 2. Performance Data.....
- 3. Running Condition.....
- 4. Compressor Mechanical Information.....
- 5. Residue.....
- 6. Compressor Shape
- 7. Wiring Diagram.....
- 8. Starter and Protector.....
- 9. Starter and Protector Appearance.....
- 10. Delivery List.....
- 11. Package, Storage and Transportation.....
- 12. Accessory Diagram.....
- 13. General Requirement.....
- 14. Environmental Protection Requirement to Compressor and Accessories.....

1) Application

Model Name	LBH170F-DJ
Compressor Type	Hermetic Motor Compressor
A/C Type	Cooling & Heating A/C System
Refrigerant Type	R22
Maximal Refrigerant Charged	1.0Kg Max
Motor Type	Single Phase Induction Motor-PSC
Power Source	Single Phase 1φ-60Hz-208/230V
Safety Approval	

2) Specification

Displacement	16.8cm ³ /rev.
Oil Charged	ATMOS NM56EP · 350ml
Weight (Oil Included)	11.3Kg
Pole Numbers	2 Poles
Coil Resistance(at 20°C)	Main: 2.70±5%ΩAux:2.67±5%Ω
Locked Rotor Amps	(at 1φ-60Hz-230V)+10%29.7A
Ruing Capacitor	35μF-370V
Insulation Grade	E Grade
I.D. of Discharge Pipe	8.2 mm
I.D. of Suction Pipe	9.8 mm

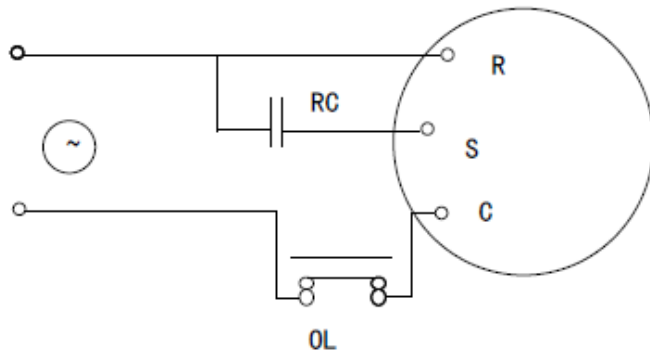
3) Rated Performance Parameters

Rated Capacity	3420 ±5% W
Rated Inverter Input Power	1099 ±5% W
Rater Inverter Input Current	5.1 ±5% A
COP	312 ±5%
Insulation Resistance	≥20 M Ω Nitrogen Charged
Withstanding Voltage/Leakage Current	AC1500V 1min / 10 mA MAX
Residual Moisture	≤160mg
Residual Impurities	≤45 mg

Rating Condition

Power Source	1φ-60Hz-208/230V
Condenser Temperature	54.4°C
Evaporator Temperature	7.2°C
Return Gas Temperature	35°C
Liquid Temperature	46.1°C
Discharge Temperature	115°C MAX

4) Wire Connection Figure



S: START (辅绕组 AUX WINDING)
 R: RUN (主绕组 MAIN WINDING)
 C: COMMON (共通)
 RC: 运转电容 Run Capacitor
 OLP: 外置保护器 Overload Protector

Limit of System Application

NO.	Item	Standard Cond.	Limit Cond.
1	Discharge Temp.	2.06MPa Max	2.6MPaMax
2	Suction Temp.	0.29~0.59MPa	0.1~0.69MPa
3	Compressing Ratio	8Max	8 Max
4	Motor Coil Temp.	100°CMax	125°CMax

Application Notice:

- 1) No liquid refrigerant goes back to compressor during the whole time.
- 2) When continuous running includes defrost and dehumidify, compressor bottom temp. subtract condensing temp. should be more than 5
- 3) When intermittent running, compressor bottom temp. subtract condensing temp. should be more than 0
- 4) When intermittent running, each cycle should be longer than 5 (On: over 2 min, Off: over 2 min)
- 5) The supply voltage should be 208 V 10% 230V+10% (187-253 V)
- 6) Pressure should be balanced between high- and low-pressure side.
- 7) In operation, abnormal noise is not allowed.
- 8) Tilt angle should be less than 5°.
- 9) Oil level confirmation should be tested at:
 - 1) Overload and low load running;
 - 2) Refrigerant soaking starting;
 - 3) Defrost starting and resuming;
 - 4) Connection pipe over 15m;
 - 5) Elevation over 5m;

Oil level confirmation test performed with side glass compressor:

- 1) At steady running: oil level should be higher than B level. At steady running: oil level should be higher than B level.
- 2) Within 3 minutes at starting: oil level should be higher than A level. Within 3 minutes at starting: oil level should be higher than A level.