1. Compressor Type

Compressor model	L72CZ1
Rated voltage/frequency	220-240V~ 50Hz
Refrigerant	R134a
Application	Low back pressure（LBP）
Cooling method	Static
Start torque	Low starting torque（LST）
Control device	Capillary tube
Motor type	RSIR

2. Performance Data

Displacem	Net Wt.	Oil Charge	Cooling Capacity(≥95%)								COP(≥95%)	
			ASHRAE							CECOMAF	ASHRAE	CECOMAF
			-35	-30	-25	-23.3	-20	-15	-10	-25	-23.3	-25
cm^3	kg	ml	w	w	w	w	w	w	w	w	w/w	w/w
7.2	8.2±0.4	190±10	94	133	178	195	231	292	375	147	1.3	1.01

Note: These data come from the test without a PTC relay

Testing condition:

Test conditions	LBP	
	ASHRAE	CECOMAF
Evaporating Temp.	-23.3℃	-25℃
Ambient Temp.	+32.2℃	+32℃
Condensing Temp.	+54.4℃	+55℃
Suction Temp.	+32.2℃	+32℃
Subcooling Temp.	+32.2℃	+55℃

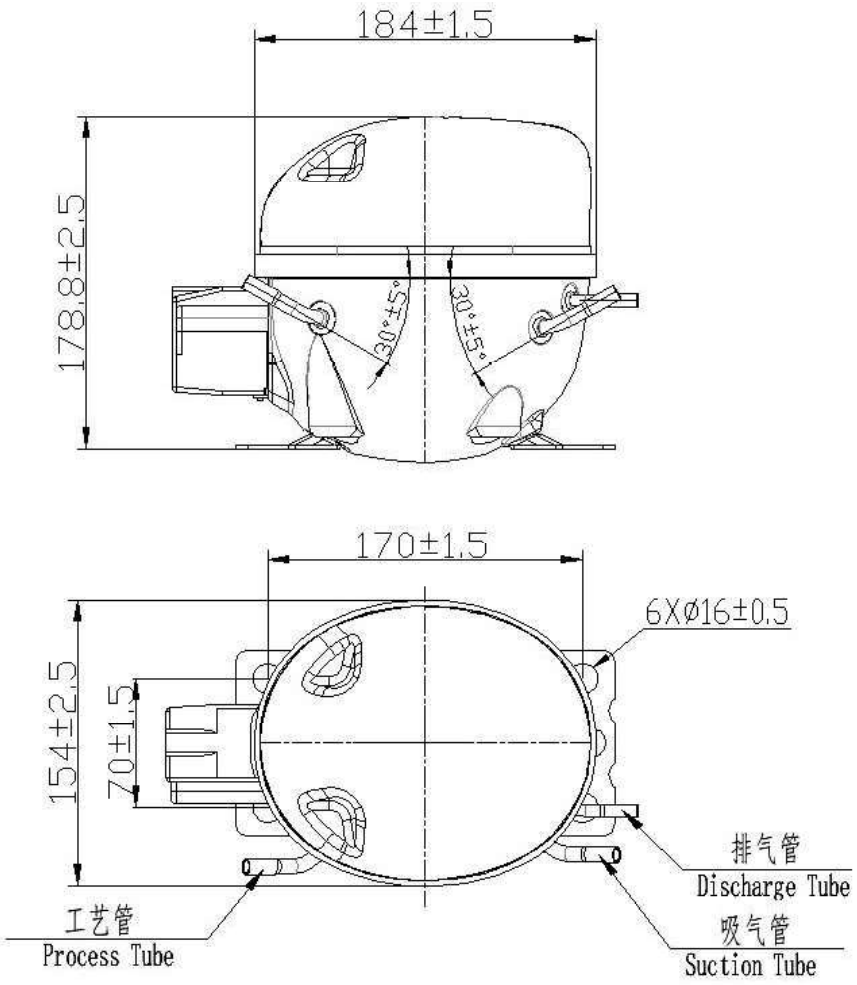
3. Running Condition

Ambient temp.	0～43℃
Evaporating temp.	-35～-15℃
Voltage range	160～260V
Max. condensing temp.	65℃
Max. winding temp.	130℃
Max. shell temp.	95℃
Max. discharge temp.	120℃
Start voltage	160V [0.5/0.5MPa(abs)]
Shell min. resistance to pressure	35bar

4. Compressor Mechanical Information

Oil type	POE oil
Viscosity	18.2～23.1mm²/s(40℃)
Oil charged	190±10ml
Diameter of suction tube (I.D.)	Φ6.5±0.1mm
Diameter of discharge tube(I.D.)	Φ4.9±0.1mm
Diameter of process tube (I.D.)	Φ6.5±0.1mm
Material of suction tube, process tube and discharge tube	Copper tube
Compressor noise	42dB(A)
Vibration	0.7m/s²
Protecting gas	-0.06～-0.02MPa

5. Compressor Shape

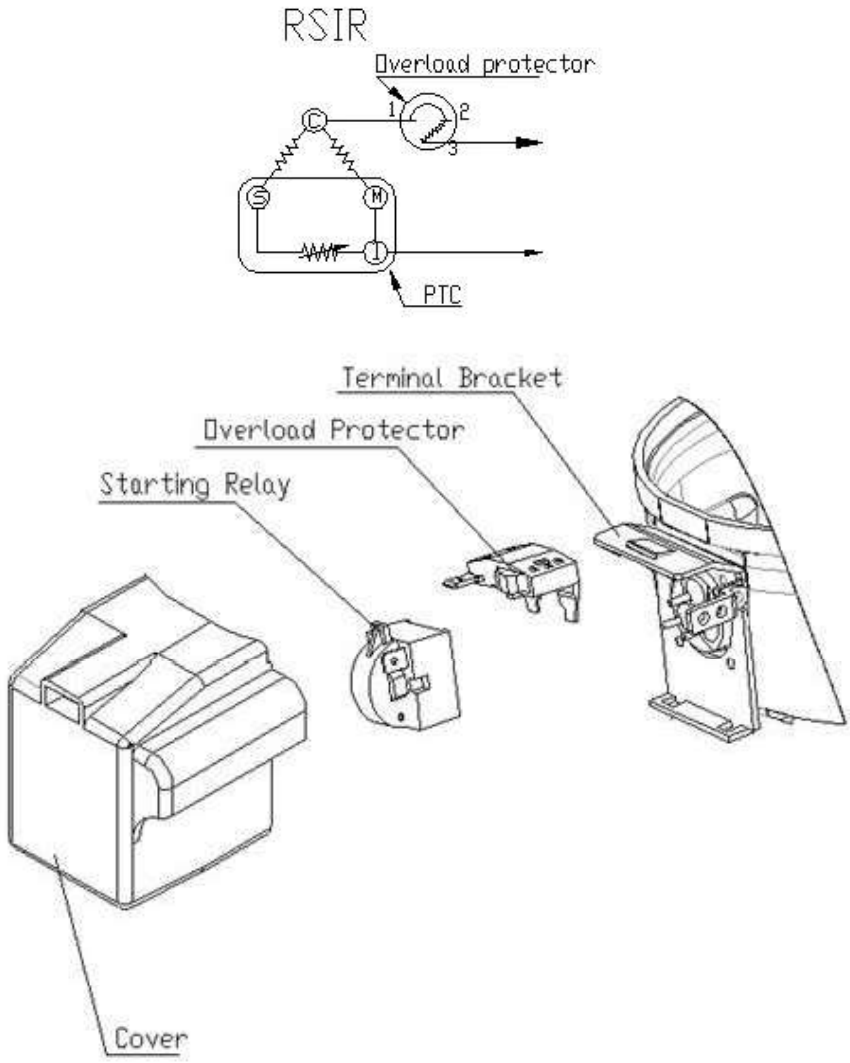


Caution: Suction tube and process tube cannot be exchanged

Unmarked tolerance:±5mm

Unmarked Angle: ±10°

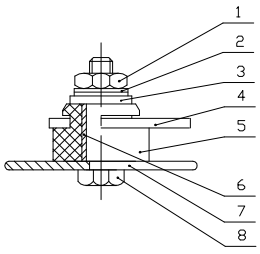
6. Wiring Diagram



Note: Each of the starting relay、the overload protector and the cover is separately provided by our company.

7. Fixing of mounting bracket and cabinet base

1、Hexagon nut
2、Spring washer
3、Flat washer
4、Compressor mounting bracket
5、Rubber grommet
6、Sleeve
7、Cabinet base
8、Screw



Note: All parts are provided by our company. Above is just for reference, details can refer to delivery state.

8. Starting relay and overload protector

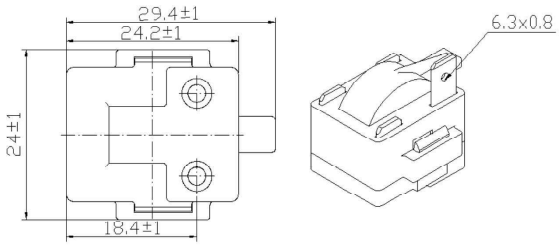
8.1 Starting relay

Model	QPS2-A15MG1	QP2-15	JPQII-15
Supplier	Hangzhou Star shuaier Electric Appliance Co.,Ltd.	Shunde Ronggui Electronic Circuit Measuring Equipment Co. Ltd.	Lanxi City Yueqiang Electric Co.,Ltd.
Resistance Ω	15±20%		
Run time S	0.2～1.5		
Rese ttime S	≤100		
Max working voltage V	350		
Max current A	8		

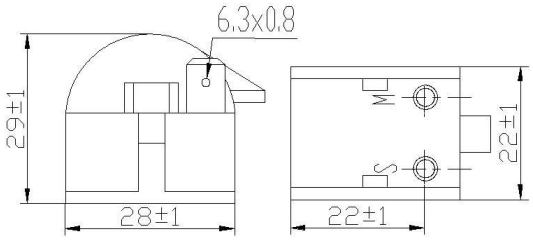
Assembly force≤100N Disassembly force≥25N

Flammability: Anti-flammability

QPS2-A15MG1



QP2-15 / JPQII-15



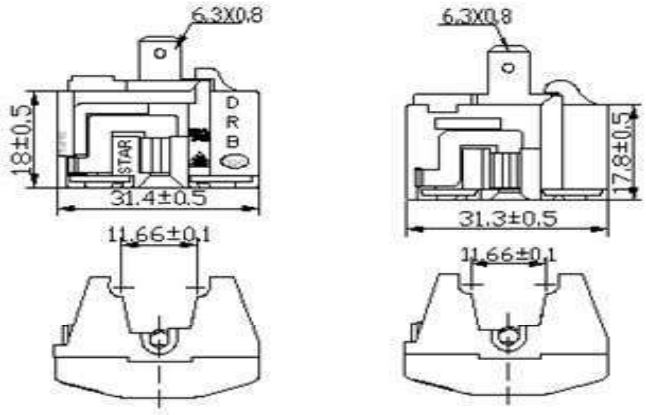
8.2 Overload protector

Model	DRB26N61A2	TB75-120	BT75-120
Supplier	Hangzhou Star shuaier Electric Appliance Co.,Ltd.	Foshan Shunde Ronggui Electric Circuit Mersurement Equipment Co., Ltd	Lanxi City Yueqiang Electric Co.,Ltd.
Max.T.C Amp.(25℃) A	7.5		
Trip time S	5～15		
Reset time S	20～150		
Open temp. ±5℃	120		
Close temp. ±9℃	61		

Assembly force≤80N Disassembly force≥12.5N

Flammability: Anti-flammability

DRB26N61A2 TB75-120/BT75-120

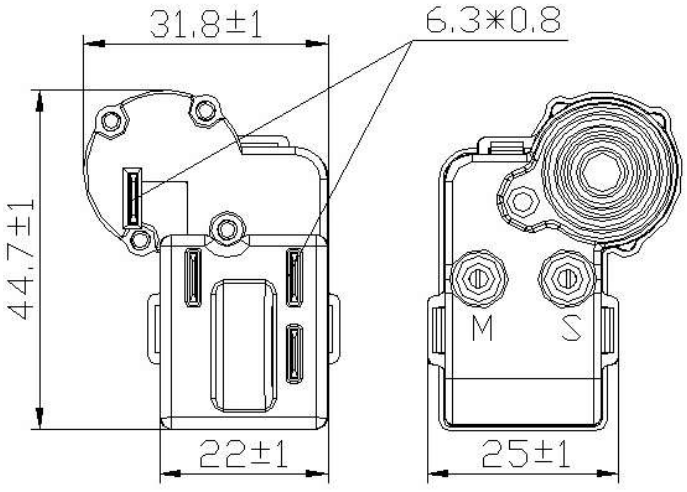


8.3 Combo starting relay and overload protector

Model		ZHB75-120P15 A
Supplier		Changshu Tianyin Electromechanical Co. Ltd.
Starting relay	Resistance Ω	15±20%
	Run time S	0.2～1.5
	Reset time S	≤100
	Max working voltage V	350
	Max current A	8
Protector	Max.T.C Amp.(25℃) A	7.5
	Trip time S	5～15
	Reset time S	20～150
	Open temp. ±5℃	120
	Close temp. ±9℃	61

ZHB75-120P15

A



9. Delivery State

No.	Name	Model	Quantity	CODE
1	Compressor	L72CZ1	1pcs	
2	Rubber plug	Φ6.4	1pcs	Installed
3		Φ8.2	2pcs	Installed
4	Rubber grommet	H model	4pcs	
5	Starting relay	QPS2-A15MG1	1pcs	
		QP2-15		
		JPQII-15		
6	overload protector	DRB26N61A2	1pcs	
		TB75-120		
		BT75-120		
7	Starting relay and overload protector	ZHB75-120P15 A	1pcs	
8	cover	A1N	1pcs	
9	Grounding screw	QET.1-24C	1pcs	
10	Anchor bolt assembly	M6*30	4pcs	
11	Sleeve	Φ10×17	4pcs	
12	Nut	M6	4pcs	

Notes: 1. All electrical parts and equipment assembly are supplied separately, not installed on the compressor, except the one noted "Installed"

2. All electrical parts and equipment assembly according to "Delivery state" are all provided by our company.

10. Package、Storage and Transportation

Package type	unrecyclable
Quantity	96pcs/box
Transportation	By sea
Storage	Max. 2 layers
Cross Weight Kg	822±38
Net Weight Kg	787±38
Volume m^3	0.96
Dimension: length×width×height cm	109×89×99
Main components	Wooden supporter、upper wooden cover、foam divider、plastic sheet、cardboard cover、wrapping
Movement	Keep the compressor in normal or vertical position
Trans. test requirement	No allowable compressor's damage and performance loss.

11. Technical Items

(1)、Don't take off the rubber plugs before using and installing compressor to prevent dust and moisture.

(2)、Don't turn down or incline the compressor during storage, transportation or installation and avoid vibration and shock.

(3)、The compressor must be kept horizontally during running, the inclination angle must be less than 5°.

(4)、A special polyester oil is charged in the R134a compressor and the charging volume has been optimized by DONPER. Don't pour out or add any refrigerant oil.

(5)、The interval of compressor operation must be more than 4 minutes in order to obtain a pressure balance in the systems.

(6)、Don't start or run in the case of vacuum or charge high voltage in the compressor. The compressor cannot be used to vacuumize the refrigeration system.

(7)、The design of refrigeration system must be suitable to insure the oil could flow back to compressor.

(8)、The maximum ambient temperature of the compressor operation is 43℃.When continuously operating under the maximum ambient temperature 43℃， the condensing pressure and the peak pressure should not exceed as showing in the following table.

Refrigerant	R134a
Max. condensing pressure	1.59MPa
Peak	2.0MPa

(9)、Widen the evaporating Temp. range of the compressor should be approved by DONPER.

(10)、Compressor should be stored in a dry place.

(11)、Compressor accessories (eg: starting relay, overload protector etc.) are put in the accessories box instead of fixing on the compressor.

(12)、The inventory period of the compressor after leaving the factory should not exceed 6 month. If it exceeds 6 months, please check if the protective gas inside the compressor is under negative pressure.

(13)、It's necessary to keep the compressor without rubber plug as short time as possible (max time 10 min).

(14)、R134a systems require a filter with drying agent which suitable for R134a refrigerant.

(15)、The vacuum pump and the charging system must only be dedicated to R134a.

(16)、The refrigeration system should minimize the content of chlorine and moisture, and must be free of paraffin and silicon oil.

(17)、The organic substance non-compatible with R134a cannot be used in the refrigeration system.