NE6188BZ COMPRESSOR TECHNICAL SPECIFICATION



HUANGSHI DONGBEI ELECTRICAL APPLIANCE CO., LTD. 2019.12



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1. Compressor Type

Compressor model	NE6188BZ
Rated voltage/frequency	110-120V~60Hz
Refrigerant	R134a
Application	Middle/High back pressure (M/HBP)
Cooling method	Fan Cooling
Start torque	High starting torque (HST)
Control device	Capillary tube
Motor type	CSIR
Starting capacitor	100μF

2. Performance Data

ement	Wt.	Charge		Cooling Capacity(≥95%) W					COP(§	≥95%) /W	
Displacement	Net ,	Oil Cl		ASHRAE CECO MAF					ASHRAE	CECOMAF	
, ,			-15	-15 -10 -5 0 5 7.2 10 5						7.2	5
cm ³	kg	ml	w	w w w w w w						w/w	w/w
12.1	10.8±0.4	370±10	429	429 603 771 963 1200 1280 1450 1049						1.83	1.62

Testing condition:

T 1''	НВ	P
Test conditions	ASHRAE	CECOMAF
Evaporating Temp.	+7.2℃	+5℃
Ambient Temp.	+35.0°C	+32℃
Condensing Temp.	+54.4℃	+55℃
Suction Temp.	+35.0℃	+32℃
Subcooling Temp.	+46.1℃	+55°C

3. Running Condition

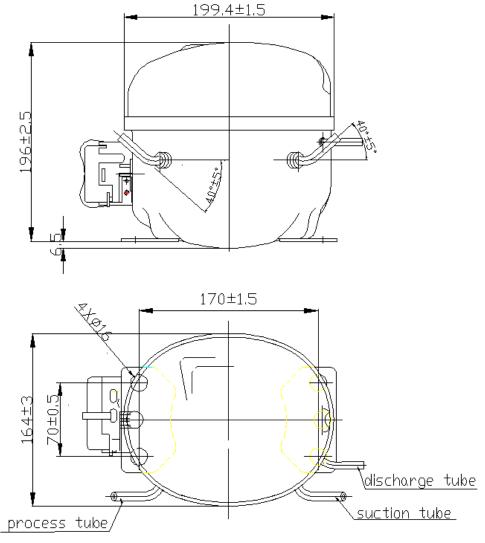
Ambient temp.	0~43℃
Evaporating temp.	-15∼15℃
Voltage range	95~127V
Max. condensing temp.	65°C
Max. winding temp.	130℃
Max. shell temp.	110°C
Max. discharge temp.	130℃
Start voltage	95V [0.5/0.5MPa(abs)]
Shell min. resistance to pressure	35bar



4. Compressor Mechanical Information

Oil type	POE
Viscosity	28.8~35.2 mm ² /s(40°C)
Oil charged	370±10ml
Min. oil volume in compressor	320ml
Diameter of suction tube (I.D.)	Φ8.15±0.1mm
Diameter of discharge tube(I.D.)	Φ6.15±0.1mm
Diameter of process tube (I.D.)	Φ6.15±0.1mm
Material of suction tube, process tube and	Copper tube
discharge tube	Copper tube
Compressor noise	56dB(A)
Vibration	1.8m/s^2
Protecting gas	Dry com.air (Dew point-60°C)

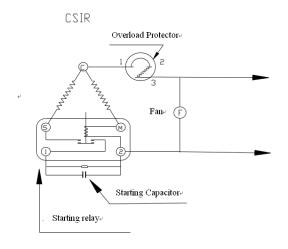
5. Compressor Shape

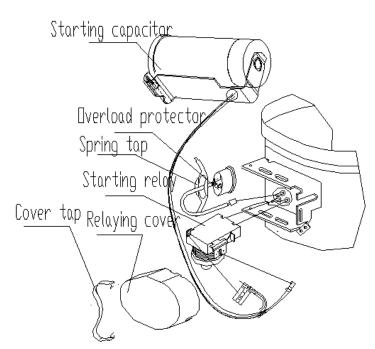


 $\label{lem:caution:Suction} Caution: Suction tube and process tube can not be exchanged \\ Unmarked tolerance: \pm 5 mm$



6. Wiring Diagram

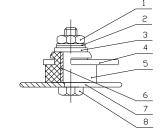




Note: Each of the starting relay, the overload protector, the spring tap and the relaying cover is separately provided by our company.

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: Equipment assembly is all provided by our company. Above is just for reference, details can refer to delivery state.

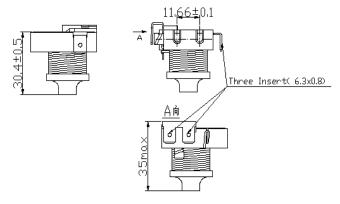


8. Starting relay and overload protector

8.1.Starting relay

Compressor model		NE6188BZ
	Type	QL2-14.9
Prote-	Max.Close Current A	14.9
ctor	Min Open Currente S	12.5
	Supplier	Hangzhou Star shuaier Electric Appliance Co.,Ltd

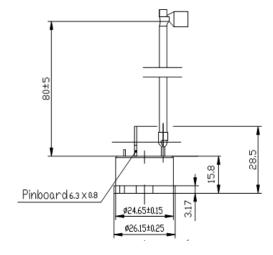
Flammability: Anti-flammability



8.2. Overload protector

	Compressor me	odel	NE6188BZ
	Туре		B210-120
	Max.T.C Amp.	(25°C) A	210
Prote	Trip time	S	9~16
-ctor	Reset time	S	10~80
	Open temp.	±5℃	120
	Close temp.	±9℃	61

Supplier: Guangzhou Senbao Electrical Applicances Co,.Ltd First assembly force≤80N Sixth disassembly force≥12.5N Flammability:Anti-flammability





9. Capacitor

Compressor model		NE6188BZ	
	Model μF	100	
Starting	Rated voltage V.AC	330	
Capacitor	Supplier and model	FUXIN JIEKEDA ELECTRONIC CO.LTD Huangshan Zhenzhou Electronic Technology Co., Ltd.	CD60 CD60

10. Delivery State

No.	Name	Model	Quantity	CODE
1	Compressor	NE6188BZ	1pcs	
2	Dukkonnlug	Ф10.3	1pcs	
2	Rubber plug	Ф8.2	2pcs	
3	Rubber grommet	A model	4pcs	
4	Starting relay	QL2-14.9	1pcs	Hangzhou Star shuaier Electric Appliance Co.,Ltd.
5	Overload protector	B210-120	1pcs	Guangzhou Senbao Electrical Applicances Co,.Ltd
(Stanting compaiton	100E	1mag	Huangshan Zhenzhou Electronic Technology Co., Ltd
6	Starting capacitor	100μF	1pcs	FUXIN JIEKEDA ELECTRONIC CO.LTD
7	Relaying cover	E1	1pcs	
8	Earth bolt	QET.1-25	1pcs	
9	Sleeve	Φ10×17	4pcs	
10	Cover tap	QET-09B	1pcs	
11	Spring tap	QET-07	1pcs	
12	Anchor bolt assembly	M6*30	4pcs	
13	Nut	M6	4pcs	

Notes:1.All electrical parts and equipment assembly are supplied separately, not installed on the compressor.

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



11. Package, Storage and Transportation

Package type	unrecyclable
Quantity	80 pcs/box
Transportation	By sea
Storage	Max. 2 layers
Cross Weight Kg	952±32
Net Weight Kg	912±32
Volume m ³	1.05
Dimension: length×width×height (cm)	109×89×108
Main components	Wooden supporter upper wooden cover foam divider plastic sheet cardboard cover rain-proof cover wrapping
Movement	Keep the compressor in normal or vertical position
Trans. test requirement	No allowable compressor's damage and performance loss.

12. 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° C. When continuously operating under the maximum ambient temperature 43° C, 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 stocking period must be less than 6 months after the date of production. If longer, you have to check whether the filled gas is sufficient. Replenishment must be done if necessary.
- (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 with 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 chlorion 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.