NE6213CK COMPRESSOR TECHNICAL SPECIFICATION



HUANGSHI DONPER ELECTRICAL APPLIANCE CO., LTD. 2011.8



INDEX

		page
1、	Compressor Type	2
2,	Performance Data	2
3、	Running Condition	2
4、	Compressor Mechanical Information	3
5、	Compressor Shape	3
6、	Wiring Diagram	4
7、	Fixing of mounting bracket and cabinet base	4
8.	Starting relay	4
9、	Overload protector	5
10	Delivery State	5
11,	Compressor nameplate identification	5
12	Package Storage and Transportation	5
13、	Technical Items	6~7



1. Compressor Type

Compressor model	NE6213CK
Rated voltage/frequency	220~240V/50Hz
Refrigerant	R404A
Application	High back pressure (H.B.P)
Cooling method	Fan cooling
Start torque	High starting torque (HST)
Control device	Capillary tube
Motor type	CSIR

2. Performance Date

Displacement	ower	et Wt.	Charge	Cooling Capacity ×95%						COP ×93%			
Displ	Po	Net	Oil		ASHRAE CECOMAF						ASHRAE	CECOMAF	
				-15	-10	-5	0	5	7.2	10	5	7.2	5
cm ³	HP	kg	ml	w	w w w w w w					w/w	w/w		
12.0	1/2	11.5±0.4	450±5	550	862	1080	1327	1602	1732	2265	1500	1.80	1.58

Testing condition:

T	H.B.P			
Test conditions	ASHRAE	CECOMAF		
Evaporating Temp.	7.2℃	5℃		
Ambient Temp.	35.0℃	32℃		
Condensing Temp.	54.4℃	55℃		
Suction Temp.	35.0℃	32℃		
Subcooling Temp.	46.1℃	55℃		

3. Running Condition

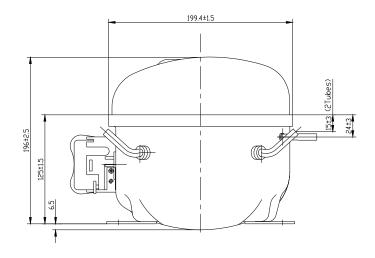
Ambient temp.	0~43℃		
Evaporating temp.	-15~10℃		
Voltage range	187~242V		
Max. condensing temp.	65℃		
Max. winding temp.	130℃		
Max. shell temp.	95℃		
Max. discharge temp.	130℃		
Start voltage	187V [0.5/0.5 MPa (abs)]		
Shell min. resistance to pressure	35bar		

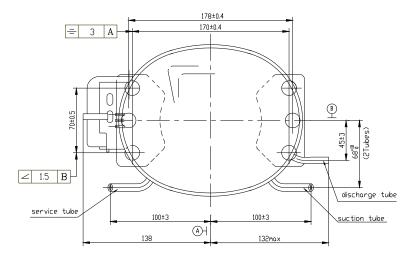


4. Compressor Mechanical Information

0il type	RL46H
Viscosity	$43\sim49 \text{ mm}^2/\text{s}$
Oil charged	$440 \pm 5 \text{m}1$
Diameter of suction tube (I.D.)	Ф8.1±0.1mm
Diameter of discharge tube(I.D.)	Φ6.1±0.1mm
Diameter of process tube (I.D.)	Φ6.1±0.1mm
Material of suction tube, process	copper tube
tube and discharge tube	
Compressor noise	62dB(A)
Vibration	2.8m/s^2
Protecting gas	Dry com.air 0.5∼0.8bar (Dew point-60℃)

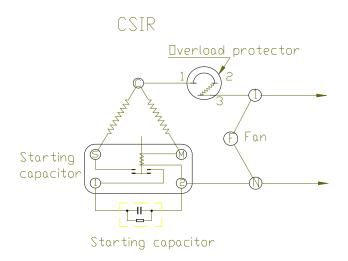
5. Compressor Shape

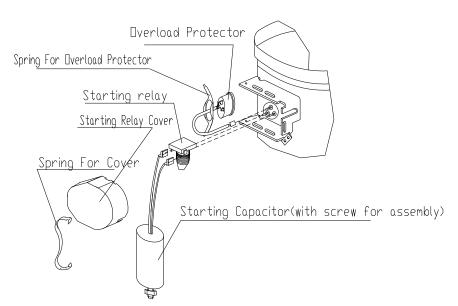






6. Wiring Diagram

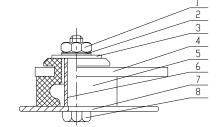




Note: Each of the starting relay, the overload protector, the spring tap, the cover, the earth bolt, the cover and the earth bolt is separately provided by our company.

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 are all provided by our company.



8.Starting relay

Model: QL2-12.0 Type:Starting relay max current: 12.0A

Factory: Tianying Radio Factory CO., LTD

Xing shuai er Radio Factory C0, LTD

Flammability: Anti-flammability

9.Overload protector

	Compressor model	NE6213CK		
	Туре	B205-120		
	footom	Tianying Radio Factory Co., LTD		
	factory	Xing shuai er Radio Factory CO, LT		
	Max.T.C Amp.(25°C) A	20.5		
Prote-ctor	Trip time S	7.5~14		
	Reset time S	2~60		
	Open temp. $\pm 5^{\circ}$ C	120		
	Close temp. $\pm 9^{\circ}$ C	61		
	Min. T.C. Amp.(90°C) A	6.4		

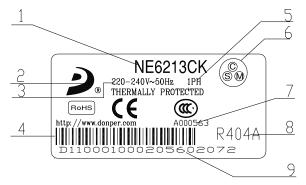
10.Delivery State

No.	Name	Model	Quantity	CODE
1.	Compressor	NE6213CK	1pcs	
2.	MOUNTING ACCESSORIES			
2.1.	Rubber grommet		4 pcs	
2.2.	Sleeve		4 pcs	
2.3.	Hexagon bolt(screw)		4 pcs	
2.4.	Flat washer		4 pcs	
2.5.	Nut		4 pcs	
2.6.	Spring washer		4 pcs	
3.	ELECTRICAL ACCESSORIES			
3.1.	Overload protector	B205-120	1 pcs	
3.2.	Starting relay	QL2-12.0	1 pcs	
3.3.	Starting capacitor	75 µ f	1 pcs	
3.4.	Relaying cover assembly		1 pcs	
3.5	Spring cover holder		1 pcs	
3.6	Spring for overload protector		1 pcs	
3.7	The assembly parts of the terminal		1 pcs	
	board			
3.8	Earthing bolt		1 pcs	



11. Compressor Nameplate Identification

- 1. Compressor model
- 2. DONPER enrolled brand
- 3. Rated voltage and frequency
- 4. Compressor bar code
- 5. Single phase
- 6. Power supply connection mark
- 7. 3C Certificate serial number
- 8. Refrigerant
- 9. Product serial number



12. Package, Storage and Transportation

Package type	unreusable	
Quantity	80pcs/box	
Transportation	By truck or train	
Storage	Max. 2 layers	
Cross Weight Kg	950±32	
Net Weight Kg Volume m ³	920 ± 32	
Volume m ³	1.18	
Dimension: length × width × height (cm)	$109 \times 89 \times 122$	
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 (a short time before compressor installed in the refrigerator).	
Trans. test requirement	No allowable compressor's damage and performance loss.	

13. 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 R404A 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	R404A
Max. condensing pressure	2.63MPa
Peak	3.0Mpa

- (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). R404A systems require a filter with drying agent whith suitable for R404A refrigerant
- (15). The vacuum pump and the charging system must only be dedicated to R404A.
- (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-compatable with R404A cannot be used in the refrigeration system.