

SUBJECT

Model ASG108SN-B7AT SPECIFICATION
ASG108SN-B7AT 规格书

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1. SCOPE 应用范围

This specification is applied to SHANGHAI HITACHI rotary compressor.
此规格适用于上海日立电器有限公司生产的旋转式压缩机。

2. SPECIFICATION OF COMPRESSOR 压缩机规格

2.1 Model

型号 ASG108SN-B7AT

2.2 Rated Voltage-Frequency-Phase

额定电压/频率/相数 208 ~ 230V/60Hz/单相

2.3 Application

应用 Air Conditioning
空调机

2.4 Refrigerant

制冷剂 R—410A

2.5 Compressor Cooling

压缩机冷却 Forced air
强制空冷

2.6 Displacement

排气量 10.8ml/rev

2.7 Rated capacity(see*)

额定冷量 (见*) 3045W(2670Kcal/h)

2.8 Motor input(see*)

电机输入功率(见*) 1070W

2.9 COP

能效比

$$2.85 \text{ COP} = \frac{\text{Rated capacity 额定冷量 (W)}}{\text{Motor input 电机输入功率 (W)}}$$

2.10 Current

电流

5.25 A

2.11 Allowable amount of refrigerant charge

制冷剂充注允许量

1100g

2.12 Amount of oil charge

油充注允许量

330 ± 20 ml(Initial)

330 ± 20 ml(最初)

2.13 Oil

油

HAF68D1U or equivalent

2.14 Space volume of inner case

壳体内容积

1200ml

2.15 Net weight

净重

11.8 kg incl.oil

11.8kg 包括油

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<p>2.16 Hermetic Terminal 密封接线柱</p>	<p>1/4"quick connect type 1/4" 快速连接型</p>	
<p>2.17 Motor</p> <p>Type</p> <p>Capacitor</p> <p>Locked rotor amps</p> <p>Approved voltage range</p> <p>Winding resistance(M/S)</p> <p>电机</p> <p>形式</p> <p>电容器</p> <p>堵转电流</p> <p>电压变动范围</p> <p>电阻(主线圈/副线圈)</p>	<p>Permanent Split Capacitor</p> <p>35 MFD/420 Volts</p> <p>28A</p> <p>Rated voltage $\pm 10\%$</p> <p>2.42/2.50 (at 20)</p> <p>PSC</p> <p>35 μF/420V</p> <p>28A</p> <p>额定电压 $\pm 10\%$</p> <p>2.42/2.50 (at 20)</p>	
<p>2.18 Rated conditions</p> <p>额定工况</p>	<p>Voltage</p> <p>Evaporating temp.</p> <p>Condensing temp.</p> <p>Liquid temp. entering expansion valve.</p> <p>Return gas temp.</p> <p>Ambient temp.</p> <p>电压</p> <p>蒸发温度</p> <p>冷凝温度</p> <p>膨胀阀前液体温度</p> <p>回气温度</p> <p>周围温度</p>	<p>220 V</p> <p>7.2</p> <p>54.4</p> <p>46.1</p> <p>35</p> <p>35.0</p> <p>220V</p> <p>7.2</p> <p>54.4</p> <p>46.1</p> <p>35</p> <p>35.0</p>
<p>2.19 Starting performance</p> <p>起动性能</p>	<p>(1) The starting voltage should be as follows.</p> <p>(2) The starting pressure should be balanced between the suction and discharge of the compressor and should be adjusted to the following table.</p> <p>(3) The temperatures of the compressor enclosure should be more than 20 continuously at the following table.</p> <p>(1) 起动电压如表 1 所示。</p> <p>(2) 起动压力必须在吸气压力及排气压力之间进行平衡，并按下表予以调节。</p> <p>(3) 在起动工况下，压缩机环境温度要保持在 20 以上。</p>	

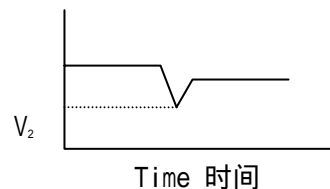
TABLE 1 表 1

Starting Conditions 起动工况		Spec 规格
Motor temperature 电机状态	Pressure 平衡压力 MPa{kgf/cm ² G}	Starting voltage 起动电压 (V ₂)**
Cold-Starting 冷起动 Cold state (room temperature) 冷工况(室温)	1.703{16.36}	Below 85% of rated voltage 不高 于额定电压的 85%
Hot-Starting(Standard) 热起动(标准) Hot state after operated under standard load condition 在标准负载下运行后的工况	1.703{16.36}	Below 85% of rated voltage 不高 于额定电压的 85%
Hot-starting(Overload) 热起动(超负荷) Hot state after operated under overload condition 在超负载条件下运行后的工况	1.860{17.96}	Below 90% of rated voltage 不高 于额定电压的 90%

*. Rated capacity and motor input are measured by secondary Refrigerant calorimeter Methods of JIS B8606 by Shanghai Hitachi Electrical Appliances Co., Ltd. Allowable capacity should be more than 95% of the rated capacity and Allowable motor input should be less than 107% of rated motor input.
额定冷量和电机输入功率由本公司根据 JIS B8606 的第二制冷剂法测试。允许冷量应为额定冷量的 95% 以上，允许电机输入功率应为额定电机输入功率的 107% 以下。

** . V₂ means minimum voltage measured between pins of hermetic terminal at the compressor starts.

V₂ 是指压缩机起动时所测密封接线柱端子间的最小电压。



***. The suction pressure is measured on the position above the filter of accumulator.
吸入压力测定位置在储液器滤网上面。

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3. PARTS AND DRAWING LIST 零件及图纸清单

PARTS NAME 零件名称		QTY/SET 数量/套	DRAWING NO. 图纸号	REMARKS 备注
Compressor 压缩机		1	4CYCG0103	Dimensioned sketch 尺寸简图
Mounting parts 安装件	Rubber grommet 避振脚	3	4CYC00188	
	Bolt 固定螺栓	-	4CYC00940	*
	Nut 固定螺母	-	(M8)	*
Electrical parts 电器部件	Terminal-Cover 接线盒盖	1	4CYC00894	
	Gasket 接线盒盖垫片	1	4CYC00895	
	Nut 固定螺母	1	3CYC00004	
	Rubber-Washer 固定垫圈	1	4CYC00174	
	Running Capacitor 运转电容	1	4CYC00173	
		-		*
			4CYC00698	Wiring Diagram 接线图 Performance curve 性能曲线

* Out of supply, for reference. 不提供, 仅供参考。

4. CHARACTERISTICS

一般特性

4.1 Residual moisture

150mg MAX

残余水分含量

以下

4.2 Residual impurities

100mg MAX

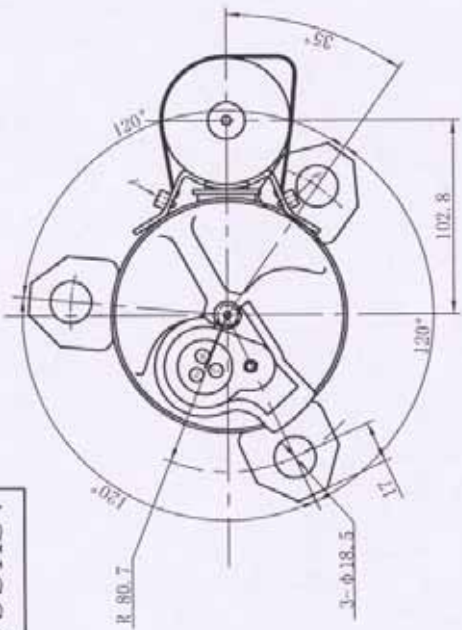
杂质含量

以下

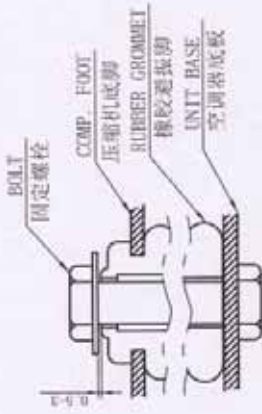
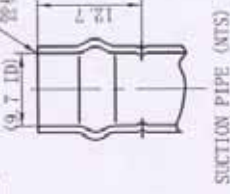
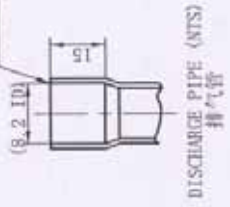
号	号	号	号	号	号	号	号
①	②	③	④	⑤	⑥	⑦	⑧

日期	日期	日期	日期	日期	日期	日期	日期
1	2	3	4	5	6	7	8

4CYCG0103



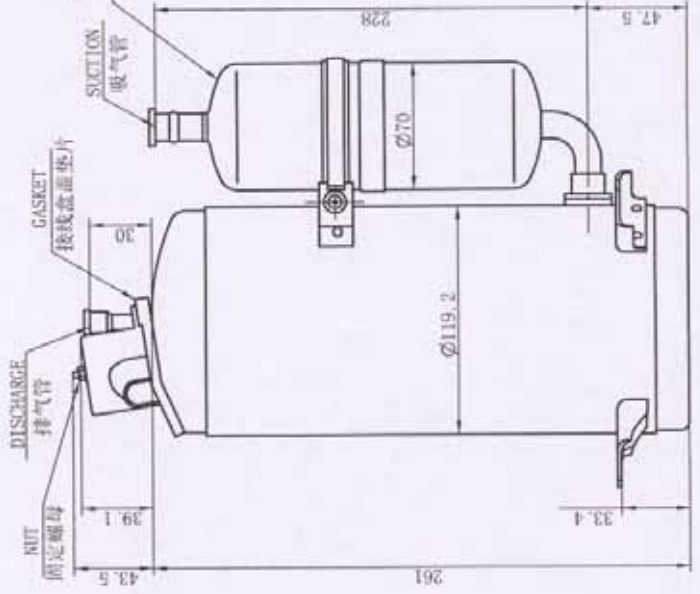
口径确保φ8.15的通径可以通过
口径确保φ9.65的通径可以通过
管壁凸点应保证φ8.7止规无法通过



RUBBER GROMMET STRUCTURE
橡胶避振脚结构
具体外形以实物为准
THE CONCRETE APPEARANCE IS
SUBJECT TO MATERIAL OBJECT



THE ACCUMULATOR APPEARANCE IS
SUBJECT TO MATERIAL OBJECT
储液器外观以实物为准



NOTE:
注: 1. THE TORQUE ENFORCED ON THE NUT IS 1.5±0.3N.m.
接液盒固定螺母的安装扭矩为 1.5±0.3N.m.
2. PUTTING OUT RUBBER PLUG WHEN FIXING EARTH PARTS.
接地螺孔橡胶塞拔去后, 安装接地附件。

DIMENSION: mm
尺寸单位: mm

ASG102SW-B7AT	ASG108SW-B7AT	ASG102SN-B7AT	ASG108SN-B7AT
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REGD	DRS.	DES.	TITLE
			DIMENSIONED SKETCH
			DWG. NO. 4CYCG0103

DL	SCALE	PROJECTION	SCALE
	NTS	第一角	NTS
SHANGHAI			
HITACHI LTD.			