

No.: WXXS-000-GGSY-14

APPROVAL SHEET SPECIFICATIONS OF HERMETIC SCROLL COMPRESSOR

CODE	809 943 88
MODEL	C-SBN303H8D

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NO.	DATE	PAGE	REVISION DETAILS	SANYO SIGNED	CLIENT SIGNED
REVISION RECORD					

USER: MANUFACTURER:

DALIAN SANYO COMPRESSOR CO., LTD.

LEADER	PURCHASING MANAGER	TECHNICAL MANAGER	APPROVED	CHECKED	SUBMITTED

Section 1. General Specifications

Content		Unit	Specification
Compressor Mode	Compressor Model (Code)		C-SBN303H8D (809 943 88)
Туре		_	Hermetic Scroll Compressor
Application		_	High Back Pressure
Evap. Temp. Ran	ge	°C (°F)	-15~12 (5~54)
Compressor Cool	ing Type	_	Natural Cooling
	Phase	_	3
Power Source	Rated Voltage	V	380-415/440-460
	Rated Frequency	Hz	50/60
Voltage Range	•	V	342~456/396~506
Weight (Including	Oil)	kg (lb)	38(83.8)
Refrigerant		_	R410A
Oil Type		_	FV68S or Equivalent
Oil Charge		ml (fl oz)	1700 (57.5)
Displacement		cm ³ (in ³) /rev	39.9(2.43)
	Motor Type	_	3-PH Induction Motor
	Number of Poles	_	2
	Electrical Insulation	Class	E
Motor	Nominal Revolution	min ⁻¹	
IVIOLOI	Locked Rotor Ampere	А	48/52
			U-V 2.806
	Winding Resistance [at 25°C (77°F)]	Ω	U-W 2.806
	[6(200(111)]		V-W 2.651
Connection Tube	Suction Line (O.D.)	mm (in)	22.2 (0.875)
Connection rube	Discharge Line (O.D.)	mm (in)	12.7 (0.500)
Compressor Surfa	ace Paint	_	Black Paint

Notes

- 1 Voltage range is applied at standard rating conditions.
- 2 Motor specifications in the table are the average values for your reference.
- 3 (): All units with parentheses are reference values.

Expiration of Specification

Expiration of this specification shall be effected until issuing a notice with indication of the expiration date from the issued date. In case of improvement or elimination of this specification, it shall be handled by the revision record based on agreement between both sides.

Section 2. Performance Warranty

2.1 Performance

Power Source (3PH)	Hz	50	60	Remark
Tower oddice (of 11)	V	380	440	
Canacity	W	9,800	12,200	±5%
Capacity	(BTU/hr)	33,438	41,626	reference
Input Power	W	3,650	4,250	±5%
Current	А	6.58	6.52	±5%

Standard Rating Conditions

Condensing Temp.	°C (°F)	54.4(130)
Evaporating Temp.	°C (°F)	7.2(45)
Suction Gas Temp.	°C (°F)	18.3(65)
Liquid Temp.	°C (°F)	46.1(115)
Ambient Temp.	°C (°F)	35(95)

2.2 Sound Level

Power Source (3PH)	Hz	50	60
rower source (SFTI)	V	380	440
Sound Level	dB(A)	58Max.	61Max.

Notes

- 1 The operating conditions are the same as 2.1.
- 2 MIC location is the distance of 1m (3.28feet) from the compressor.
- 3 Sound Level is an average sound pressure level in four directions.

2.3 Minimum Starting Voltage

Power Source (3PH)	Hz	50	60
Minimum Starting Voltage	V	304	352

Conditions

Compressor Temp.	°C (°F)	10~60(50~140)
Ambient Temp.	°C (°F)	10~40(50~105)
High Pressure	MPa(G)/psig	3.25(471)
Low Pressure	MPa(G)/psig	0.9(130.5)

2.4 Others

Content		Unit	Specification	
Dosign Prossuro	L.P. S.	MPa(G)/psig	2.21(320)	
Design Pressure H. P. S. MPa(G)/psig		MPa(G)/psig	4.15(602)	
Insulation Resistance	sulation Resistance $M\Omega$ 100 (without refrigerant)		100 (without refrigerant)	
Dielectric Strength V		V	2400 (1 second)	
Residual Moisture mg		mg	300	

Note:

1. The insulation resistance be measured with a DC500V megohm tester.

Section 3. Standard Accessories

3.1 Accessories List

Parts Name	Qty	Parts code	Revision No.	Note
Terminal Box Cover	1	A-0101-DSB	0	Installed on Compressor
Terminal Box Clip	1	A-0201-DSB	0	Installed on Compressor
Insulating Grommet	1	A-0301-DSB	0	Installed on Compressor
Mounting Grommet	4	M-0101-DSB	0	Included with Compressor
Mounting Sleeve	4	M-0201-DSB	0	Included with Compressor
Screw Special	1	B-0101-DSB	0	Installed on Compressor

3.2 The Drawing for Reference

Parts Name	Parts Code	Revision No.
Compressor Outline Drawing	D-0101-DSB	0
Mounting Parts Listing	M-5101-DSB	0
Packing Dimensions	D-0202-DSB	0
Wiring Diagram	E-0910-DSB	0

3. 3 Inernal Motor Protector (in compressor)

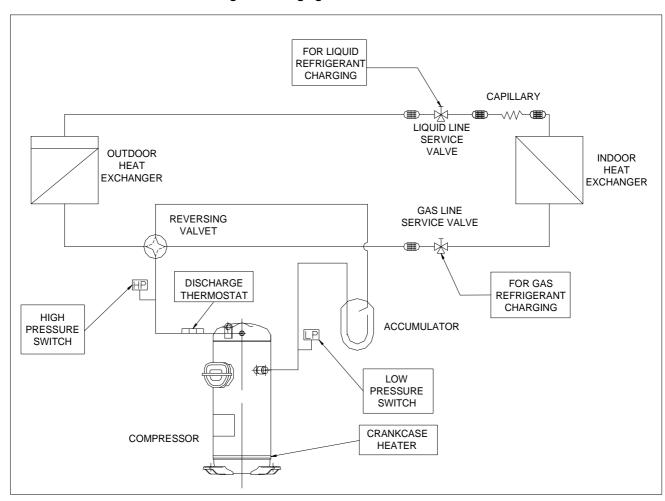
Parts Name	Specification		
Inernal Motor Protector	Trip Temprature	130±5℃	
	Reset Temprature	70±10℃	
	Trip Current	44A / 3~10s	

Section 4. Compressor Protection

4.1 Protection Required but not Included with compressor

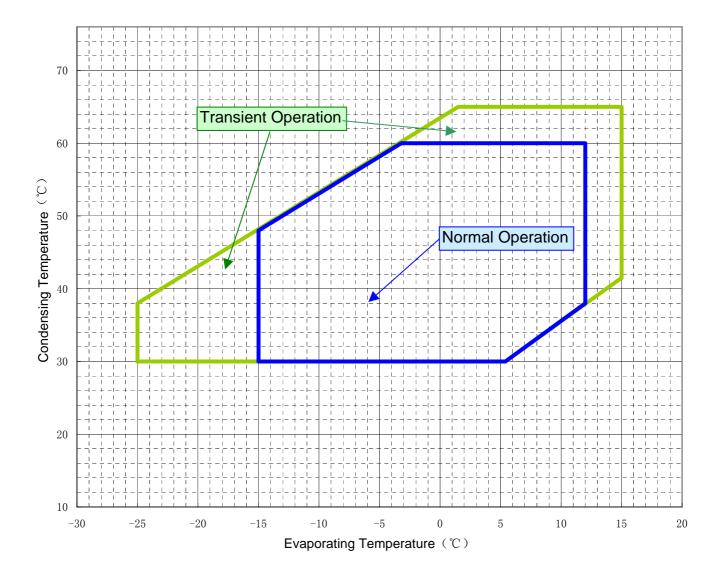
Protection Device	Items	Specifications		
Reversal Defensible Relay	Features	To protect the compressor from reverse rotation		
Reversal Deletisible Relay	Rated Voltage	AC380V		
Crankcase Heater	Rated Power	35 Watts		
	Mounting Position	Located within 100mm(4 in)from the compressor shell		
Discharge Thermostat	Trip Temperature	130±5°C(266 ±10 °F)		
	Reset Temperature	95±11°C (205 ± 20 °F)		
High Pressure Switch Setting Cut-out seting no		Cut-out seting no higher than 4.15MPa(G)		
Low Pressure Switch	Setting	Cut-out seting no lower than 0.15MPa(G)		

4.2 Position of the Protection and Refrigerant Charging



Section 5. Operating Envelope

Suction Gas Superhea : 11.1K. Refrigerant : R410A.



Section 6. Application Standard & Limit

The following requirements apply to vertical type hermetic scroll compressors:

Standard: Applicable to ordinary conditions in Japan JIS B8616 or standards relative to JIS B8616, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

Limit: Applicable to transitional brief period of time, such as start-up and beginning of defrost mode.

No. Item Standard Limit Note 1 Refrigerant R410A	_					
2 Evaporating Temp. -15-12°C(5-54°F) 0.38-1.06MPa(G)(55~154psig) 0.23-1.16MPa(G)(33~168psig) 0.38-1.06MPa(G)(55~154psig) 0.23-1.16MPa(G)(33~168psig) 0.23-1.16MPa(G)(32psig) 0.23-1.16MPa(G)(32psig) 0.23-1.16MPa(G)(32psig) 0.23-1.16MPa(G)(32psig) 0.23-1.16MPa(G)(32psig) 0.23-1.16MPa(G)(32psig) 0.24-1.16MPa(G)(32psig) 0.23-1.16MPa(G)(33~168psig) 0.23-1.16MPa(G)(33~168psig) 0.23-1.16MPa(G)(33~168psig) 0.23-1.16MPa(G)(33~168psig) 0.23-1.16MPa(G)(33~168psig) 0.23-1.16MPa(G)(33~	No.	Item	Standard Limit		Note	
2 Evaporating Temp. 0.38-1.06MPa(G)(55~154psig) 0.23-1.16MPa(G)(33~168psig) 3 Condensing Temp. 30-60℃(86~140 ° F) 65℃(149 ° F) 4 Compression Ratio 2 − 6 8 5 Winding Temp. 115℃(240 °F) Max. 125℃(257 °F) 6 Shell Bottom Temp. Evaporating Temp.+12℃(21 °F) Min. 7 Discharge Gas Temp. C-SB:130℃(266°F) Max. 8 Suction Gas Temp. Superheat: 5K(10 °F)Min. No excessive noise It should meet the requirement of item 5, 6, 7 and 14 within 30cm of the suction fitting. 9 Running Voltage Within ±10% of the rated voltage min. Voltage at compressor terminals. 10 Starting Voltage Three Phase Models: 85% of the rated voltage min. Voltage at compressor terminals. 11 On/Off Cycling On Period: Until balance of high and low pressure is obtained Operiod: Until balance of high and low pre	1	Refrigerant	R4			
0.38-1.06MPa(G)(55~154psig) 0.23-1.16MPa(G)(33~168psig)	2	Evaporating Temp.	-15~12℃(5~54 ° F) -25~15℃(-13~59 ° F)			
1.80-3.75MPa(G)(261~544psig) 4.18MPa(G)(606psig) 4.Compression Ratio 5 Winding Temp. 115℃(240 °F) Max. 125℃(257 °F) 90℃(194 °F) Max. 6 Shell Bottom Temp. 5 Shell Bottom Temp. 6 Shell Bottom Temp. 7 Discharge Gas Temp. 7 Discharge Gas Temp. 8 Suction Gas Temp. 8 Suction Gas Temp. 8 Suction Gas Temp. Superheat: 5K(10 °F)Min. 8 Suction Gas Temp. 9 Running Voltage Within ±10% of the rated voltage 10 Starting Voltage 11 On/Off Cycling 11 On/Off Cycling 12 Refrigerant Charge 13 Life Time 14 Minimum Oil Level 15 Abnormal Pressure Rise: 4.15MPa(G) (602psig) Max. 16 System Moisture Level 16 System Moisture Level 17 Uncondensable Gas Level 18 System Moisture Level 19 Pressure Risei 4.15MPa(G) (602psig) Min. 19 Pressure Risei 4.15MPa(G) (62psig) Min. 20 Pressure Switch 3 Voltage at compressor terminals. 4 Voltage at compressor terminals. 5 Specific gravity of the Oil: 0.94 5 Pressure Pressure Risei: 4.15MPa(G) (602psig) Max. 5 Pressure Switch 6 Shell Bottom Temp. 10 Shell Bottom Temp. 11 Storting Voltage at Compressor terminals. 12 Refrigerant Charge 13 Life Time 14 Minimum Oil Level 15 System Moisture Level 16 System Moisture Level 17 Uncondensable Gas Level 18 Residual Oxygen 0.1 Vol.% Max. 24 hrs. after vacuuming: 1.01kPa Max.						
4 Compression Ratio 2 − 6 8 5 Winding Temp. 115°C(240 °F) Max. 125°C(257 °F) 6 Shell Bottom Temp. Evaporating Temp.+12°C(21 °F) Min. 7 Discharge Gas Temp. 115°C(240 °F) Max. 7 Discharge Gas Temp. Superheat: 5K(10 °F)Min. 8 Suction Gas Temp. Superheat: 5K(10 °F)Min. 8 Suction Gas Temp. Superheat: 5K(10 °F)Min. 9 Running Voltage Within ±10% of the rated voltage received in the requirement of item 5, 6, 7 and 14 within 30cm of the suction fitting. 10 Starting Voltage Three Phase Models: 85% of the rated voltage min. 11 On/Off Cycling On Period: Until the oil level returns to the center of the lower bearing Off Period: Until balance of high and low pressure is obtained on 37 minutes-off is recommendable. 12 Refrigerant Charge oil/refrigerant(wt.)>0.35 Specific gravity of the Oil:0.94 13 Life Time 200,000 cycle 14 Minimum Oil Level C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Level Level Pressure Rise: 4.15MPa(G) (602psig) Min. By low pressure switch Level Level Residual Oxygen 0.1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max. 24 hrs. after vacuuming: 1.01kPa Max.	3	Condensing Temp.	30~60°C (86~140 ° F) 65°C (149 ° F)			
Shell Bottom Temp.				4.18MPa(G)(606psig)		
Shell Bottom Temp. Superheat: 5K(10 °F) Max.	4	Compression Ratio		8		
Evaporating Temp.+12°C(21 °F) Min. Ambient Temp.+11°C(20 °F) Min. C-SB:130°C (266°F) Max. Discharge Gas Temp. Superheat: 5K(10 °F) Max. C-SC:135°C (275°F) Max. Running Voltage Within ±10% of the rated voltage Three Phase Models: 85% of the rated voltage min. Single Phase Models: 90% of the rated voltage min. On/Off Cycling On Period: Until the oil level returns to the center of the lower bearing on/3 minutes-off is recommendable. Refrigerant Charge Three Phase Models: 90% of the rated voltage min. On Period: Until balance of high and low pressure is obtained C-SC:No less than 70% of the initial oil charge Minimum Oil Level Abnormal Pressure Rise: 4.15MPa(G) (602psig) Max. Pressure Rise: 4.15MPa(G) (22psig) Min. By low pressure switch Pressure sevicus Pressure Brop: 0.15MPa(G) (22psig) Min. By low pressure switch C-SP: and teast 7 minutes on/3 minutes-off is recommendable. Pressure Brop: 0.15MPa(G) (22psig) Min. By low pressure switch Pressure Brop: 0.15MPa(G) (22psig) Min. By low pressure switch No excessive noise It should meet the requirement of item 5, 6, 7 and 14 within 30cm of the requirement of item 5, 6, 7 and 14 within 30cm of the section of the section of the lower bearing on/3 minutes-off is recommendable. Specific gravity of the Oil:0.94 C-SC:No less than 70% of the initial oil charge Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Pressure Brop: 0.15MPa(G) (22psig) Min. By low pressure switch Voltage at compressor terminals. Color of the lower bearing on/3 minutes-off is recommendable. Specific gravity of the Oil:0.94 Three Phase Models: 90% of the rated voltage min. Voltage at compressor terminals. Voltage at compressor terminals. For at least 7 minutes-on/3 m	5	Winding Temp.	115℃(240 °F) Max.	125℃(257 °F)		
Ambient Temp.+11°C(20°F) Min. C-SB:130°C (266°F) Max. It should meet the requirement of item 5, 6, 7 and 14 within 30cm of the suction fitting. Running Voltage Within ±10% of the rated voltage Three Phase Models: 85% of the rated voltage min. Single Phase Models: 90% of the rated voltage min. On/Off Cycling On Period: Until the oil level returns to the center of the lower bearing Off Period: Until balance of high and low pressure is obtained Refrigerant Charge Minimum Oil Level Abnormal Pressure Rise: 4.15MPa(G) (602psig) Max. Rise/Drop Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch Residual Oxygen 0.1 Vol.% Max.		Shell Bottom Temp.	90℃(194	4 °F) Max.		
To Discharge Gas Temp. C-SB:130°C (266°F) Max.	6		Evaporating Temp			
Temp. Temp.			Ambient Temp	Ambient Temp.+11 °C (20 °F) Min.		
Suction Gas Temp. Superheat: 5K(10 °F)Min. No excessive noise It should meet the requirement of item 5, 6, 7 and 14 within 3cm of the suction fitting.	7	_	115℃(240 °E) May	C-SB:130℃(266°F) Max.		
Suction Gas Temp. Superheat: 5K(10 °F)Min. No excessive noise requirement of item 5, 6, 7 and 14 within 30cm of the suction fitting. Running Voltage Within ±10% of the rated voltage Voltage at compressor terminals. For at least 7 minutes on/3 minutes-off is recommendable. For at least 7 minutes on/3 minutes-off is recommendable. Specific gravity of the Oil:0.94 If Time 200,000 cycle C-SB: Center of the lower bearing C-SC:No less than 70% of the initial oil charge Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch System Moisture Level 17 Uncondensable Gas Level Residual Oxygen 0.1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max.	,		113 C(240 1) IVIAX.	C-SC:135˚ℂ(275°F) Max.		
Three Phase Models: 85% of the rated voltage min. Starting Voltage Three Phase Models: 85% of the rated voltage min. Single Phase Models: 90% of the rated voltage min. On/Off Cycling On Period: Until the oil level returns to the center of the lower bearing Off Period: Until balance of high and low pressure is obtained Por at least 7 minutes on/3 minutes-off is recommendable. Specific gravity of the Oil:0.94 Life Time 200,000 cycle C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing C-SC:No less than 70% of the initial oil charge Pressure Rise: 4.15MPa(G) (602psig) Max. Pressure Drop: 0.15MPa(G) (22psig) Min. By high pressure switch Pressure Drop: 0.15MPa(G) (22psig) Min. System Pressure System 1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max.	8	Suction Gas Temp.	Superheat: 5K(10 °F)Min. No excessive noise		requirement of item 5, 6, 7 and 14 within 30cm of	
Single Phase Models: 90% of the rated voltage min. On/Off Cycling On Period: Until the oil level returns to the center of the lower bearing on/3 minutes-off is recommendable. Refrigerant Charge Oil/refrigerant(wt.)>0.35 Specific gravity of the Oil:0.94 13 Life Time C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing C-SC:No less than 70% of the initial oil charge Abnormal Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch System Moisture Level 15 System Moisture Level 16 System Moisture Level 17 Uncondensable Gas Level Residual Oxygen 0.1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max.	9	Running Voltage	Within ±10% of			
Single Phase Models: 90% of the rated voltage min. On/Off Cycling On Period: Until the oil level returns to the center of the lower bearing on/3 minutes-off is recommendable. Refrigerant Charge Oil/refrigerant(wt.)>0.35 Specific gravity of the Oil:0.94 Life Time 200,000 cycle C-SB: Center of the lower bearing C-SC:No less than 70% of the initial oil charge Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch System Moisture Level System Uncondensable Gas Level On Period: Until the oil level returns to the center of the lower bearing on/3 minutes-off is recommendable. For at least 7 minutes on/3 minutes-off is recommendable. Specific gravity of the Oil:0.94 C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing C-SC:No less than 70% of the initial oil charge Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch By low pressure switch 1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max. 24 hrs. after vacuuming: 1.01kPa Max.	10	Starting Voltage	Three Phase Models: 859			
On/Off Cycling Off Period: Until balance of high and low pressure is obtained On/Off Cycling Off Period: Until balance of high and low pressure is obtained On/Off Cycling Off Period: Until balance of high and low pressure is obtained Specific gravity of the Oil:0.94 It is Time On/Off Cycling Off Period: Until balance of high and low pressure is obtained Specific gravity of the Oil:0.94 C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing C-SC:No less than 70% of the initial oil charge Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch System Moisture Level On/Off Cycling On/Off Period: Until balance of high and low pressure is obtained On/Off Cycling On/Off Cycling On/Off Period: Until balance of high and low pressure is obtained On/Off Cycling On/Off Period: Until balance of high and low pressure is obtained On/Off Period: Until balance of high and low pressure is obtained On/Off Cycling On/Off Period: Until balance of high and low pressure is obtained On/Off Cycling On/Off Period: Until balance of high and low pressure is obtained Onloanselle. Specific gravity of the Oil: 0.94			Single Phase Models: 90°			
13 Life Time 200,000 cycle 14 Minimum Oil Level C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing C-SC:No less than 70% of the initial oil charge Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch System Moisture Level 200ppm Max. 24 hrs. after vacuuming: 1.01kPa Max. Residual Oxygen 0.1 Vol.% Max. 1.01kPa Max.	11	On/Off Cycling		on/3 minutes-off is		
Minimum Oil Level C-SB: Center of the lower bearing C-SB:Bottom of the lower bearing C-SC:No less than 70% of the initial oil charge Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch System Moisture Level System 17 Uncondensable Gas Level Residual Oxygen 0.1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max. 1.01kPa Max.	12	Refrigerant Charge	oil/refrigera			
Minimum Oil Level C-SC:No less than 70% of the initial oil charge	13	Life Time	200,00			
Abnormal Pressure Rise: 4.15MPa(G) (602psig) Max. By high pressure switch Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch Company Max. Inouchensable Gas Level Residual Oxygen 0.1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max.	14	Minimum Oil Level	C-SB: Center of the lower bearing			
15 Rise/Drop Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch 16 System Moisture Level 200ppm Max. System Uncondensable Gas Level 1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max. 24 hrs. after vacuuming: 1.01kPa Max.			C-SC:No less than 70%			
Rise/Drop Pressure Drop: 0.15MPa(G) (22psig) Min. By low pressure switch 200ppm Max. System Uncondensable Gas Level Residual Oxygen 0.1 Vol.% Max. Residual Oxygen 0.1 Vol.% Max. 24 hrs. after vacuuming: 1.01kPa Max.	4.5		Pressure Rise: 4.15M	By high pressure switch		
System Uncondensable Gas Level 17 Uncondensable Gas Level Residual Oxygen 0.1 Vol.% Max. 24 hrs. after vacuuming: 1.01kPa Max.	15		Pressure Drop: 0.15	By low pressure switch		
17 Uncondensable Gas Level Residual Oxygen 0.1 Vol.% Max. 24 hrs. after vacuuming: 1.01kPa Max.	16	Level	200рр			
Level Residual Oxygen 0.1 Vol.% Max. 1.01kPa Max.	17		1 Vol.			
18 Tilt 5° Deg.Max.			Residual Oxyge			
	18	Tilt	5° De			

Notes

- 1 Installation should be completed within 15 minutes after removing the rubber plugs.
- 2 Do not use the compressor to compress air.
- 3 Do not energize the compressor under vacuumed conditon.
- 4 Evacuation and Refrigerant charge: Evacuate internal section in the refrigeration system from high and low pressure sides and charge liquid refrigerant from condenser outlet side. Additional charge shall be done with gas condition from low side.
- 5 Do not tilt over the compressor while carrying it.
- 6 Do not remove the paint.
- 7 Crankcase heater is required when the oil sump temperature is too low to meet the requirement of item 6 on page7.
- 8 Voltage fluctuation between compressor terminals, during operation, shall be within 2% of the rated voltage.
- 9 Do not operate compressor in reverse rotational direction.
- 10 Suction strainers are recommended for all applications.

11 Copper Piping Stress Start/Shutdown 34.32 N/mm² Max.

Run 12.26 N/mm² Max.

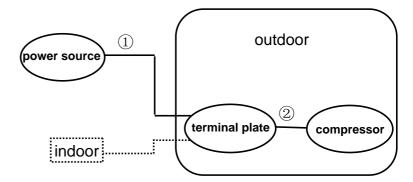
Section 7. Selection of Electrical Wire

Voltage drop may occur due to the large current draw during compressor starting.

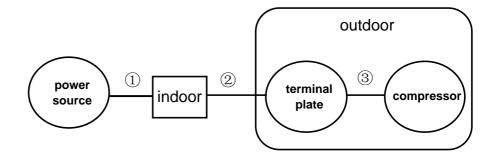
We recommend selecting the wire size from the table below.

7.1 Type of Unit

7.1.1 Window & Commercial Type Unit



7.1.2 Split Type(Separate Type)



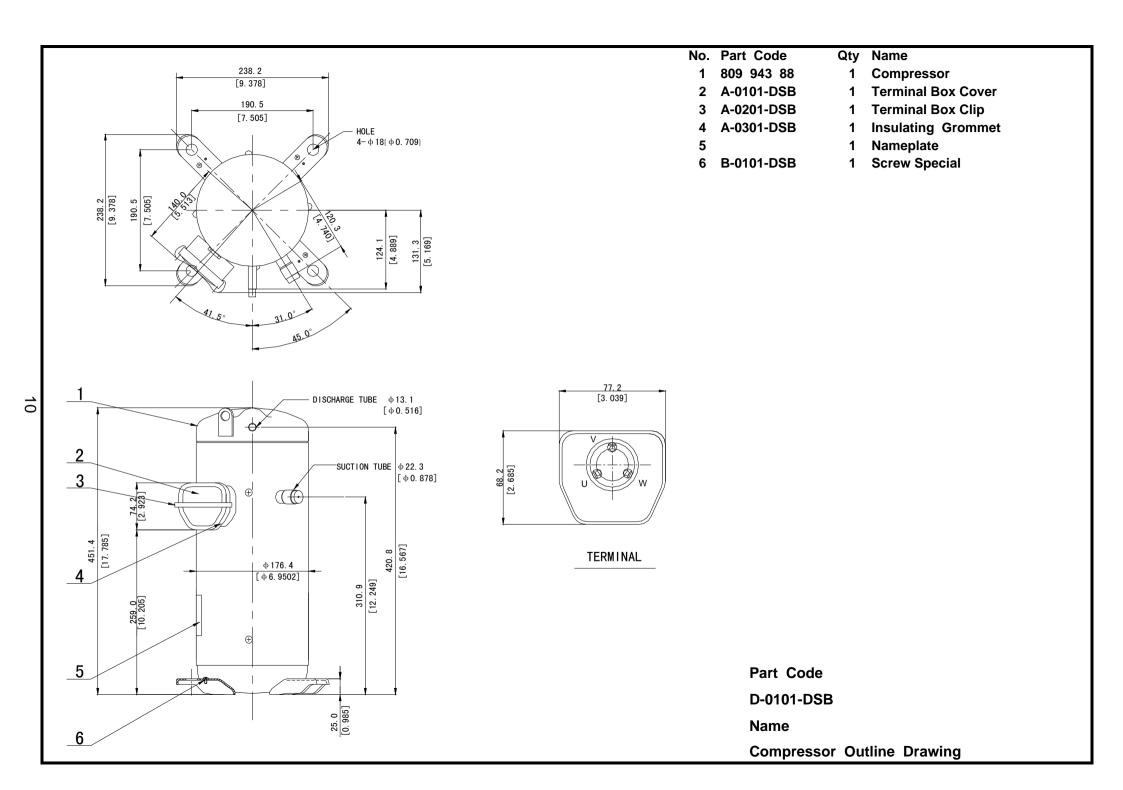
7.2 Size Table of Electrical Wire

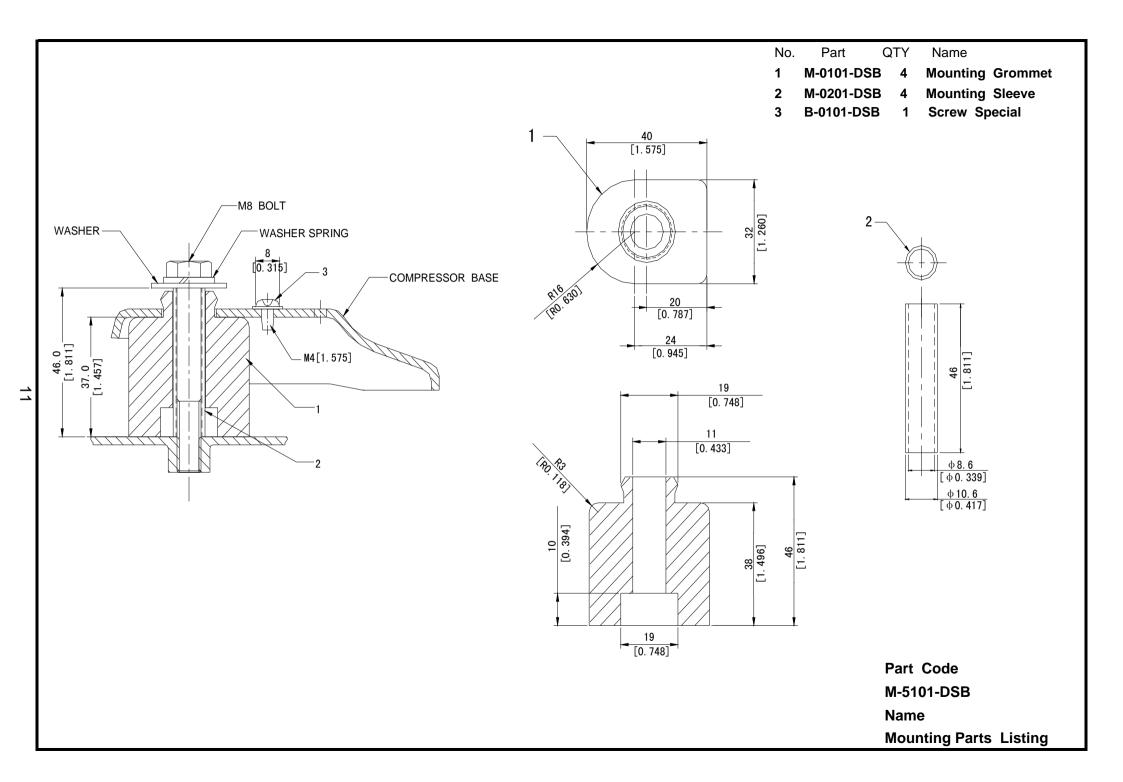
	Size of electrical wire (mm²)						
Starting current (A)	Remark ① or Remark ①+② (heat-resistance Temperature: 60°C(140°F) min.)						Remark③ (heat-resistance Temperature: 120°C(248°F) min.)
	5m max.	10m max.	15m max.	20m max.	30m max.	50m max.	1m max.
20max.	2.0	2.0	2.0	3.5	5.5	8.0	2.0
30max.	1	1	3.5	5.5	1	14.0	↑
40max.	1	3.5	5.5	1	8.0	1	↑
50max.	1	1	1	8.0	14.0	22.0	↑
60max.	1	5.5	1	1	1	1	↑
70max.	3.5	↑	8.0	14.0	↑	↑	3.5
80max.	↑	†	†	1	22.0	30.0	↑
90max.	↑	†	14.0	1	↑	↑	↑
100max.	↑	8.0	†	1	↑	38.0	↑
110max.	↑	†	†	1	↑	↑	↑
120max.	5.5	†	†	22.0	30.0	†	†
140max.	↑	14.0	†	1	†	50.0	5.5
160max.	↑	†	22.0	1	†	†	†
180max.	1	†	1	1	38.0	60.0	8.0
200max.	8.0	†	1	30.0	†	1	<u></u>
220max.	1	↑	1	↑	50.0	80.0	<u></u>
240max.	1	†	†	<u></u>	1	<u></u>	14.0

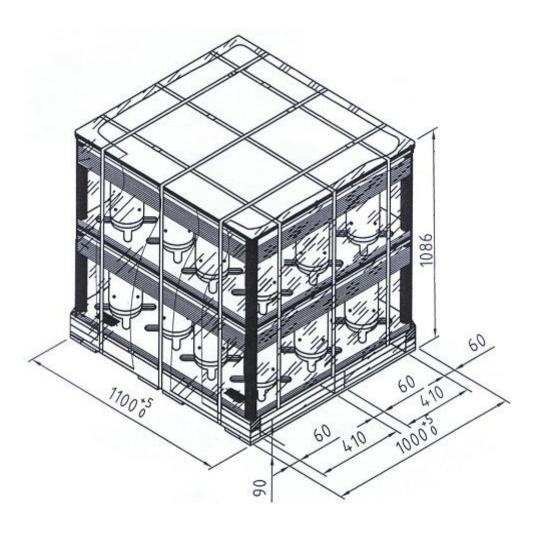
7.3 Caution of Ground

The internal motor protector does not protect the compressor against all possible conditions.

Please be sure that the system utilizes the ground connection when installed in the field.







Part Code
D-0202-DSB
Name
Packing Dimensions