



SANYO SCROLL COMPRESSORS

Code : 809 973 88

Model : C-SBN523H8D



DALIAN SANYO COMPRESSOR CO.,LTD.

Rev. 2007-5

SANYO Scroll Compressor

Model	<u>C-SBN523H8D</u>
Refrigerant	<u>R410A</u>

Electrical	<u>380-415 Volts 3 Phase 50Hz</u>
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Nominal Performance at ARI

Power Source	<u>50Hz-380V</u>
Capacity (W)	<u>19200</u>
Power (W)	<u>6750</u>
Current (A)	<u>11.6</u>
COP (W/W)	<u>2.84</u>
Mass Flow (kg/h)	<u>440</u>

Rating Conditions

Condensing Temperature(°C)	<u>54.4</u>
Evaporating Temperature(°C)	<u>7.2</u>
Return Gas temperature(°C)	<u>18.3</u>
Liquid Temperature(°C)	<u>46.1</u>
Ambient Temperature(°C)	<u>35</u>

Motor

	50Hz
Voltage Range(V)	<u>342-456</u>
RLA (A)	<u>14.1</u>
MCC (A)	<u>19.7</u>
LRA (A)	<u>73</u>
RPM (min ⁻¹)	<u>2900</u>

Compressor

Maximum Discharge Temp(°C)	<u>130</u>
Displacement (cm ³ /rev)	<u>77.4</u>
Weight (with oil kg)	<u>39</u>

Oil

Oil Type	<u>FV68S</u>
Initial Charge (ml)	<u>1700</u>
Re-charge (ml)	<u>1600</u>

Electrical Components

Motor Protector Type	<u>Internal</u>
Run Capacitor Rating (MFD/Volts)	<u>n/a</u>

Nominal performance values +/-5% with 1 hr run-in.

Ratings with air over compressor.

Specifications subject to change without notice.



Made by: Dalian **SANYO** Compressor Co., Ltd.

PERFORMANCE DATA

Compressor Model(Code)	C-SBN523H8D (809 973 88)
Power Source	3PH 50Hz 380-415V
Suction Gas Superheat(K)	11.1
Sub Cooling(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R410A

**CAPACITY(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	11,230	13,560	15,350	19,760	23,320	25,910	28,790	31,050
40.5	10,200	12,350	14,010	18,100	21,420	23,840	26,530	28,640
45.0	9,420	11,430	12,990	16,830	19,960	22,240	24,780	26,770
50.0	8,620	10,490	11,930	15,520	18,430	20,570	22,960	24,830
54.4		9,720	11,070	14,440	17,180	19,200	21,450	23,220
60.0			10,070	13,170	15,720	17,590	19,680	21,320
65.0				12,140	14,520	16,270	18,230	19,770

POWER(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	4,360	4,370	4,370	4,350	4,340	4,320	4,310	4,290
40.5	4,930	4,930	4,920	4,900	4,880	4,870	4,850	4,830
45.0	5,490	5,480	5,470	5,440	5,410	5,400	5,370	5,360
50.0	6,220	6,190	6,170	6,130	6,100	6,070	6,050	6,030
54.4		6,900	6,870	6,810	6,780	6,750	6,720	6,710
60.0			7,880	7,800	7,750	7,720	7,690	7,670
65.0				8,780	8,710	8,680	8,650	8,630

CURRENT(A)

@380V

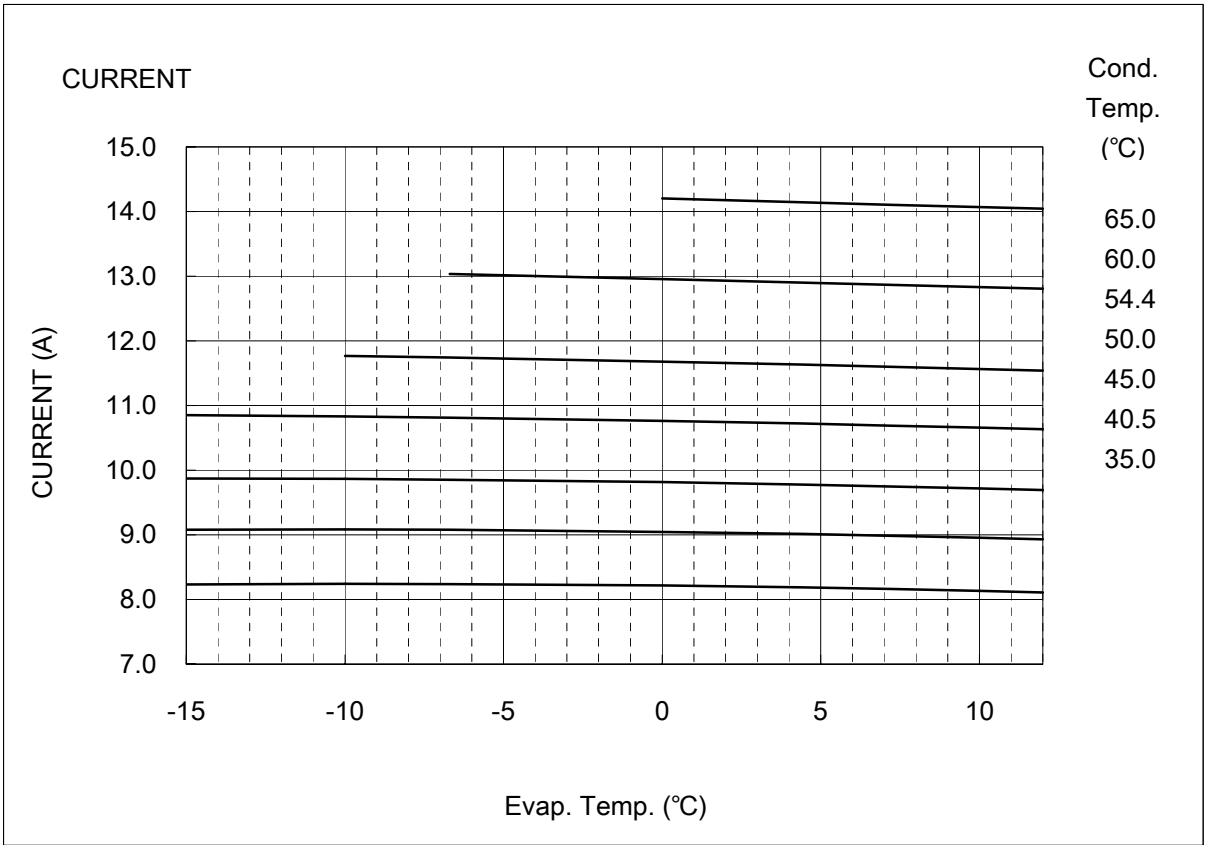
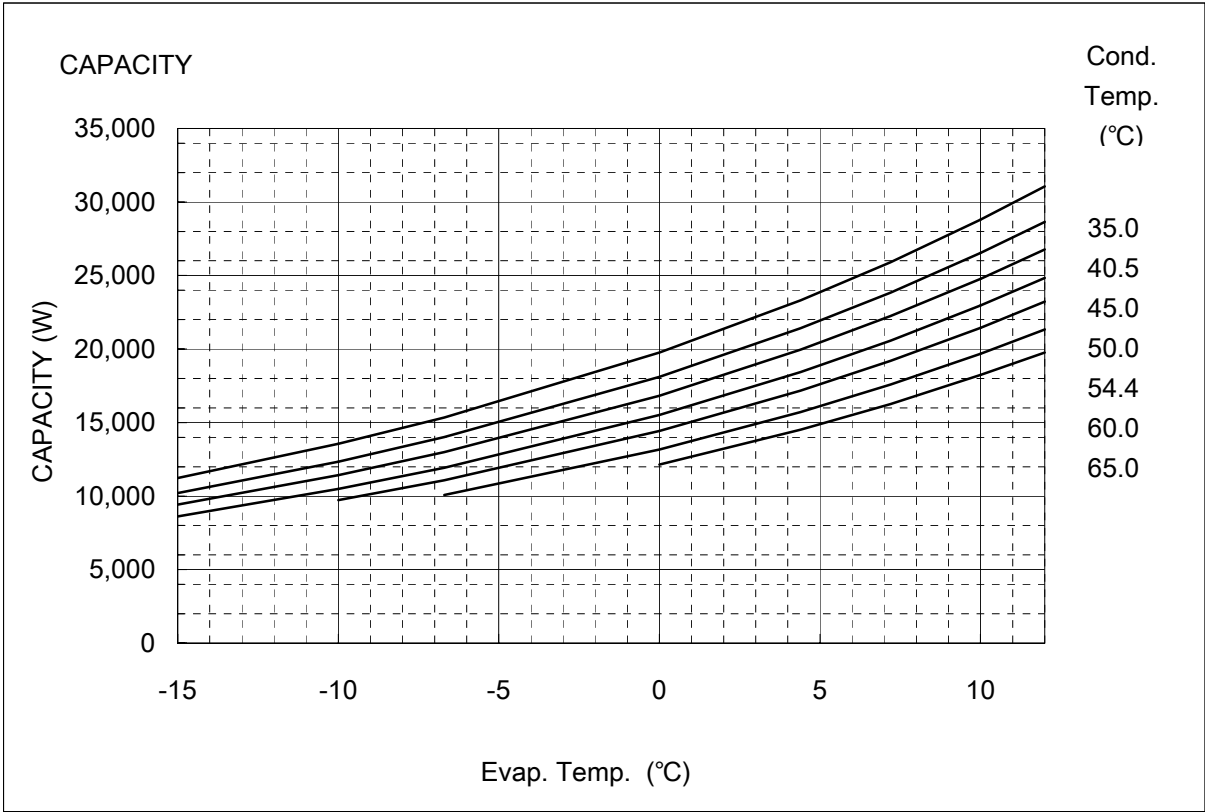
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.1
40.5	9.1	9.1	9.1	9.0	9.0	9.0	9.0	8.9
45.0	9.9	9.9	9.9	9.8	9.8	9.7	9.7	9.7
50.0	10.9	10.8	10.8	10.8	10.7	10.7	10.7	10.6
54.4		11.8	11.7	11.7	11.6	11.6	11.6	11.5
60.0			13.0	13.0	12.9	12.9	12.8	12.8
65.0				14.2	14.1	14.1	14.1	14.0

NOTE:

* The performance values subject to change without notice.

Compressor Model(Code)
Power Source

C-SBN523H8D (809 973 88)
3PH 50Hz 380-415V



COEFFICIENTS OF PERFORMANCE CURVES



Compressor Model **C-SBN523H8D (809 973 88)**
 Power Source **3PH 50Hz 380-415V**
 Suction Gas Superheat (K) **11.1**
 Sub Cooling (K) **8.3**
 Compressor Cooling **Natural Cooling**
 Refrigerant **R410A**

$$X = C1 + C2*(S) + C3*D + C4*(S^2) + C5*(S*D) + C6*(D^2) + C7*(S^3) + C8*(D*S^2) + C9*(S*D^2) + C10*(D^3)$$

X—CAPACITY(W) OR POWER(W) OR CURRENT(A) OR FLOW(kg/h)

S—EVAPORATING TEMP, °C

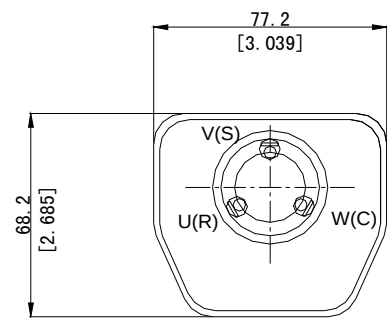
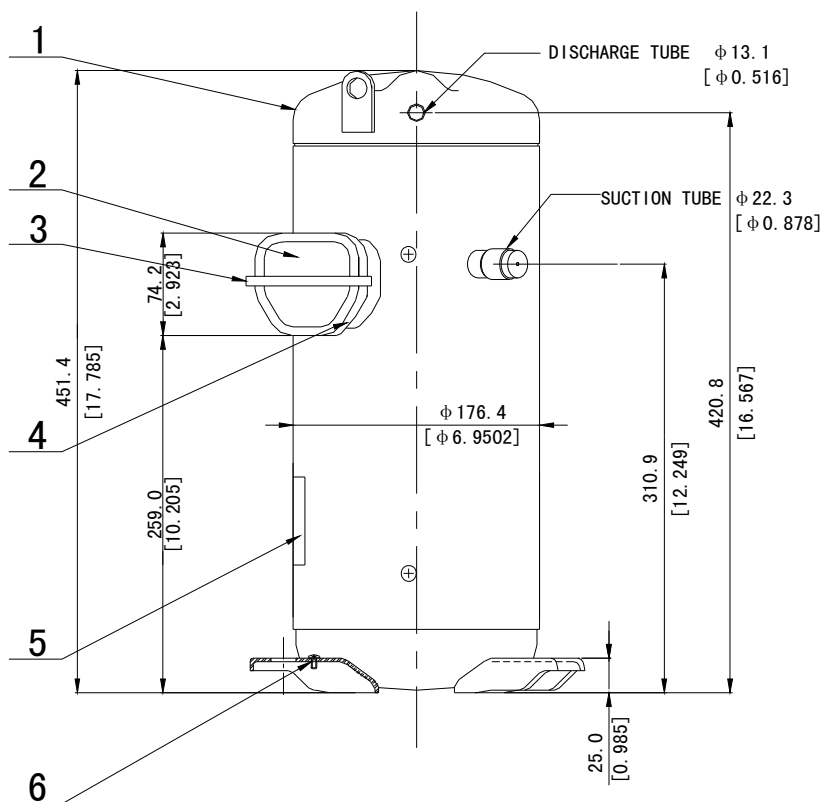
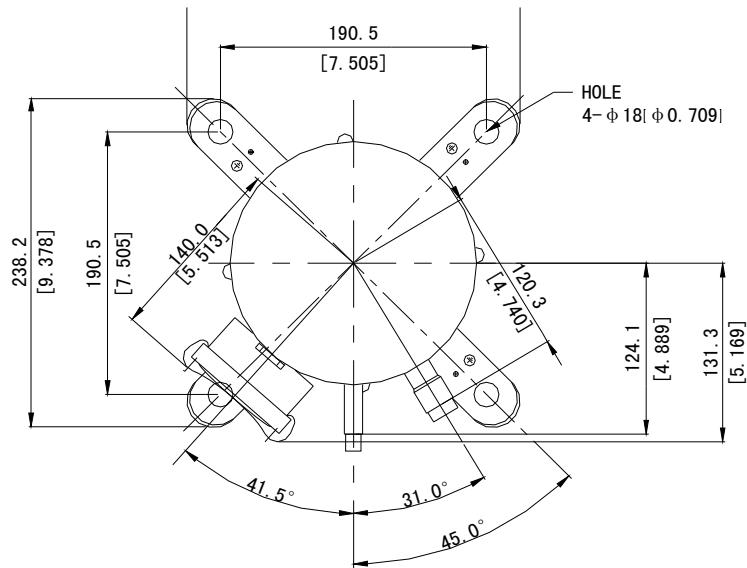
D—CONDENSING TEMP, °C

380V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	3.308011E+04	3.664654E+03	5.787256E+00
C2	1.159027E+03	-7.360696E+00	-3.654000E-03
C3	-4.493486E+02	-4.900286E+01	-5.444423E-04
C4	1.912486E+01	-5.528950E-01	-6.712201E-04
C5	-1.354391E+01	3.813151E-01	6.419956E-05
C6	1.958497E+00	1.964662E+00	2.000646E-03
C7	1.569826E-01	5.063829E-04	8.409157E-07
C8	-1.388949E-01	1.006884E-02	1.002644E-05
C9	5.033706E-02	-7.482899E-03	-3.340507E-06
C10	-6.018582E-09	-9.565104E-09	-3.389541E-12

Note: The polynomial coefficients subject to change without notice.

DIMENSIONAL SKETCH

C-SB Series

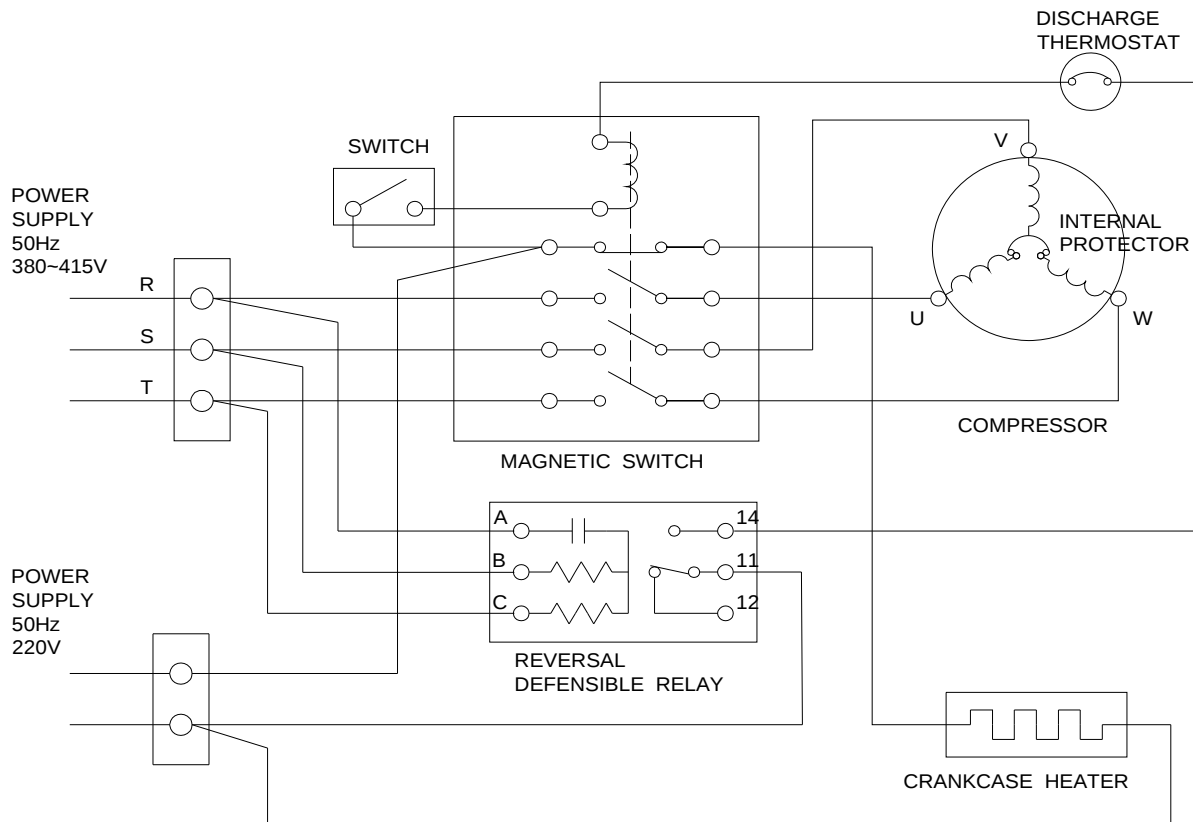


TERMINAL

No.	Qty	Name
1	1	Compressor
2	1	Terminal Box Cover
3	1	Terminal Box Clip
4	1	Insulating Grommet
5	1	Nameplate
6	1	Screw Special

WIRING & MOUNTING SKETCH

WIRING DIAGRAM C-SB Series 3phase B8



MOUNTING SKETCH

