



SANYO SCROLL COMPRESSORS

Model C-SBS180H15A



DALIAN SANYO COMPRESSOR CO.,LTD.

Rev. 2011-08

SANYO Scroll Compressor**Model** C-SBS180H15A**Electrical** 220-240 Volts 1 Phase 50Hz**Refrigerant** R407C**Nominal Performance at ARI****Rating Conditions (MID Point)**

Power Source	<u>50Hz-220V</u>	<u>50Hz-240V</u>
Capacity (W)	<u>14700</u>	<u>14700</u>
Power (W)	<u>5050</u>	<u>5250</u>
Current (A)	<u>24.1</u>	<u>24.8</u>
COP (W/W)	<u>2.91</u>	<u>2.80</u>
Mass Flow (kg/h)	<u>-</u>	<u>-</u>

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>43.8</u>
Ambient Temperature(°C)	<u>35.0</u>

Motor**Compressor**

	<u>50Hz</u>
Voltage Range(V)	<u>198-264</u>
RLA (A)	<u>26.6</u>
MCC (A)	<u>37.3</u>
LRA (A)	<u>136</u>
RPM (min ⁻¹)	<u>2900</u>
Motor Type	<u>PSC</u>

Maximum Discharge Temp(°C)	<u>130</u>
Displacement (cm ³ /rev)	<u>83.2</u>
Weight (with oil kg)	<u>40.0</u>

Oil**Electrical Components**

Oil Type	<u>FV68S</u>
Initial Charge (ml)	<u>1400</u>
Re-charge (ml)	<u>1300</u>

Motor Protector Type	<u>Internal</u>
Run Capacitor Rating (MFD/Volts)	<u>70/440</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 (PRELIMINARY DATA)

Compressor Model(Code)	C-SBS180H15A
Power Source	1PH 50Hz 220-240V
Suction Gas Superheat(K)	9
Sub Cooling(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R407C

CAPACITY(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	8,020	9,640	10,890	13,930	16,380	18,160	20,130	21,660
40.5	7,520	9,050	10,230	13,100	15,420	17,100	18,970	20,430
45.0	7,140	8,590	9,710	12,460	14,680	16,290	18,070	19,470
50.0	6,730	8,110	9,180	11,780	13,890	15,420	17,120	18,450
54.4		7,710	8,730	11,220	13,230	14,700	16,330	17,600
60.0			8,190	10,540	12,450	13,840	15,380	16,580
65.0				9,980	11,790	13,110	14,580	15,730

POWER(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	3,300	3,330	3,350	3,390	3,420	3,440	3,450	3,470
40.5	3,690	3,720	3,740	3,780	3,810	3,830	3,850	3,860
45.0	4,050	4,080	4,100	4,140	4,170	4,190	4,210	4,220
50.0	4,480	4,510	4,540	4,580	4,610	4,630	4,650	4,660
54.4		4,930	4,950	5,000	5,030	5,050	5,070	5,080
60.0			5,530	5,580	5,610	5,630	5,650	5,670
65.0				6,140	6,180	6,200	6,220	6,230

CURRENT(A)

@220V

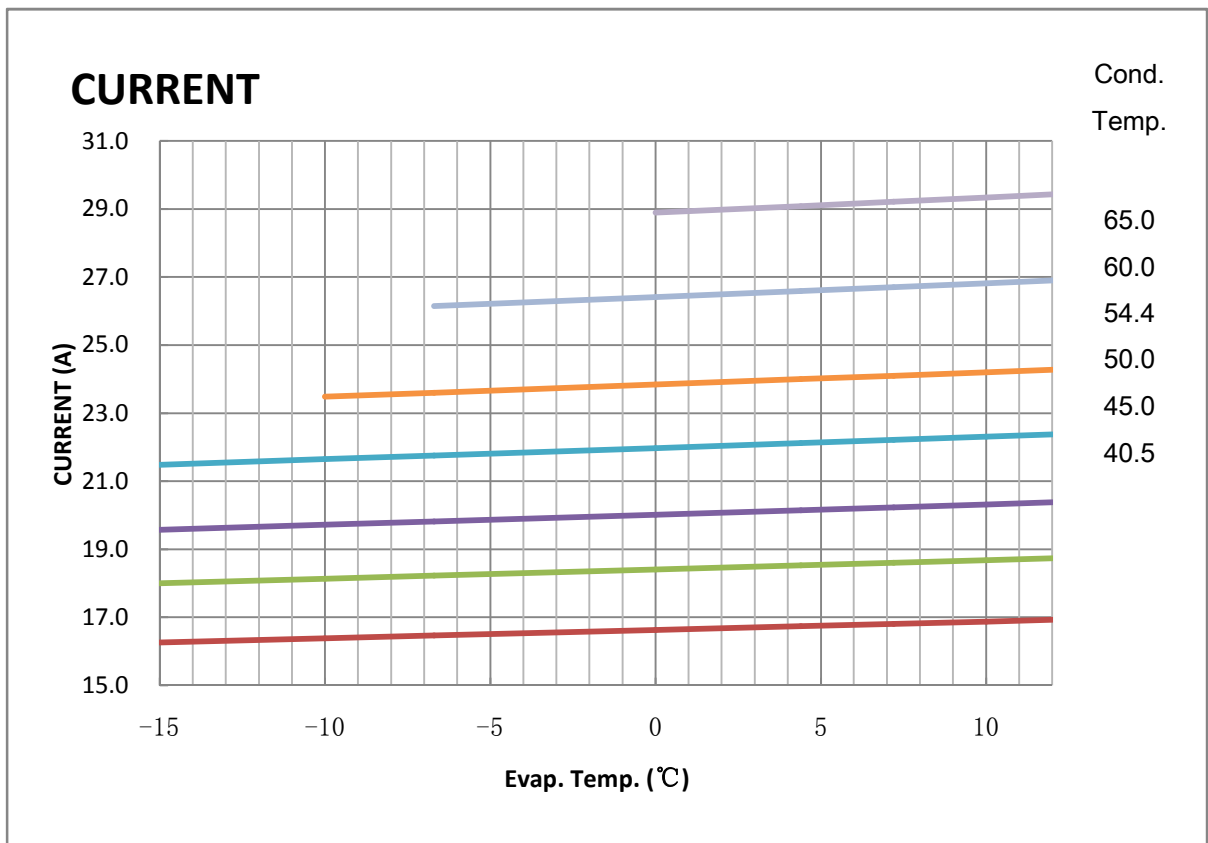
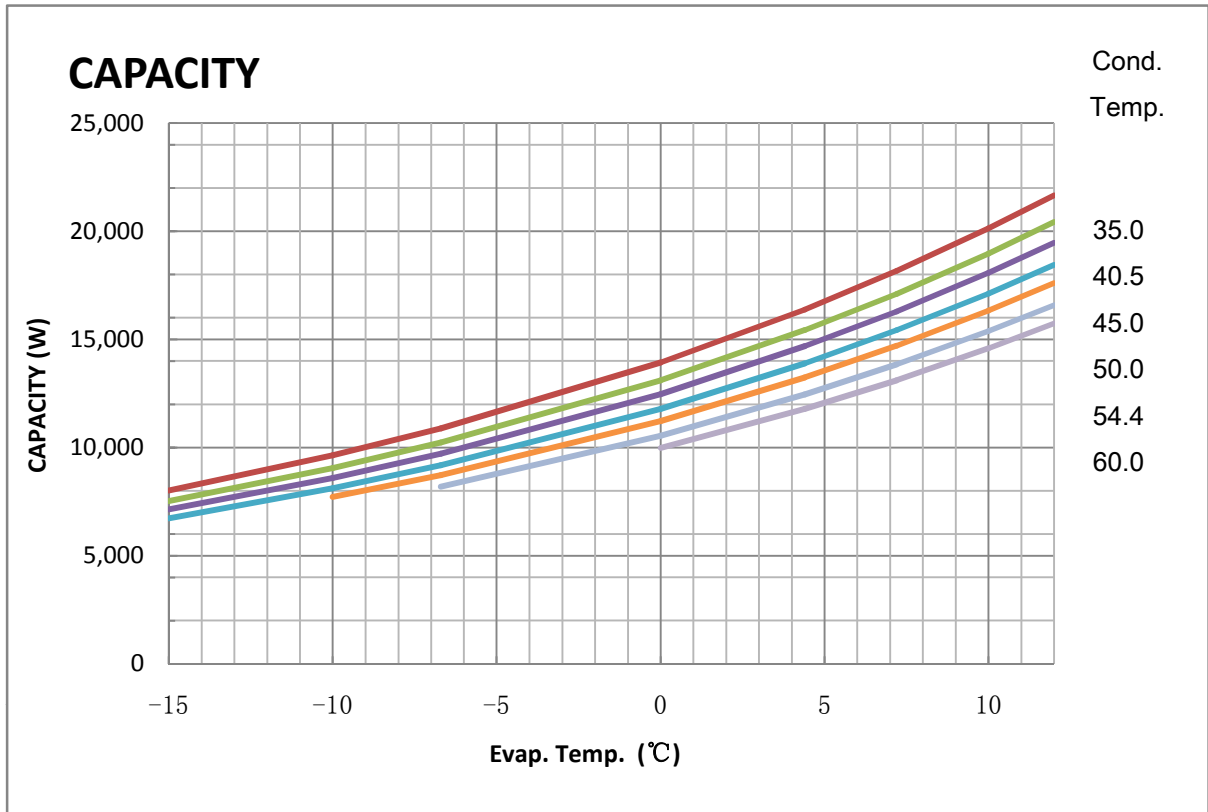
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	16.3	16.4	16.5	16.6	16.7	16.8	16.9	16.9
40.5	18.0	18.1	18.2	18.4	18.5	18.6	18.7	18.7
45.0	19.6	19.7	19.8	20.0	20.1	20.2	20.3	20.4
50.0	21.5	21.6	21.8	22.0	22.1	22.2	22.3	22.4
54.4		23.5	23.6	23.8	24.0	24.1	24.2	24.3
60.0			26.1	26.4	26.6	26.7	26.8	26.9
65.0				28.9	29.1	29.2	29.3	29.4

NOTE:

- * The performance values subject to change without notice.
- * The performance values are based on MID point method.

Compressor Model(Code)
Power Source

C-SBS180H15A
1PH 50Hz 220-240V



COEFFICIENTS OF PERFORMANCE CURVES



Compressor Model **C-SBS180H15A**
 Power Source **1PH 50Hz 220-240V**
 Suction Gas Superheat (K) **9**
 Sub Cooling (K) **8.3**
 Compressor Cooling **Natural Cooling**
 Refrigerant **R407C**

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

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

S—EVAPORATING TEMP, °C

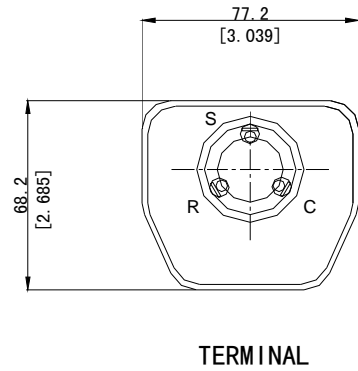
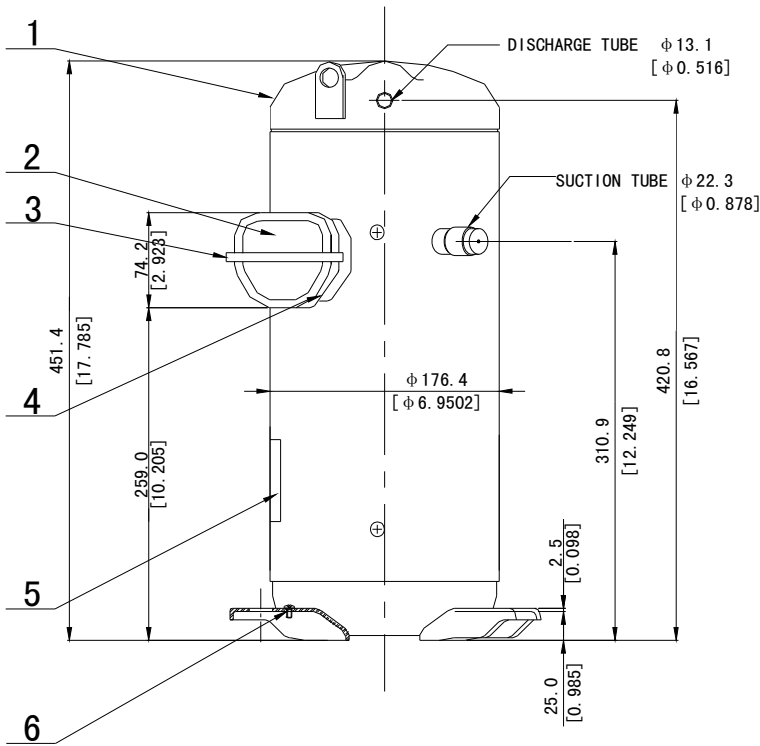
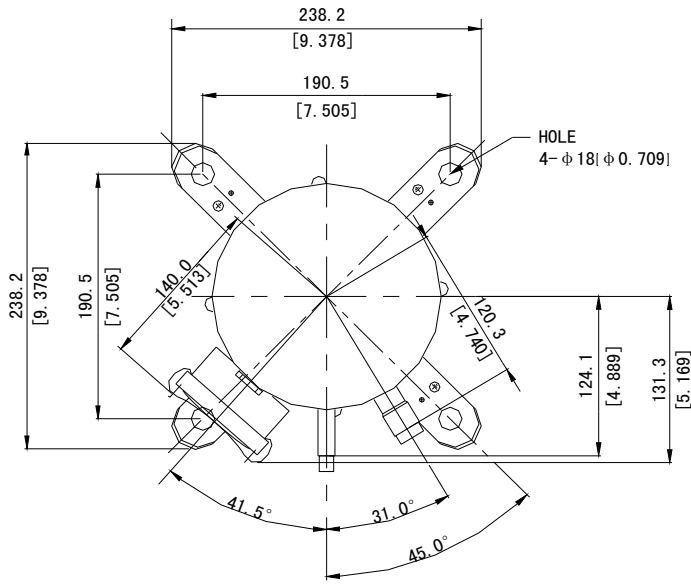
D—CONDENSING TEMP, °C

<u>220V-50Hz</u>	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	2.029192E+04	2.060276E+03	1.026107E+01
C2	7.316740E+02	8.334057E+00	1.492658E-02
C3	-2.089538E+02	9.068351E+00	5.948462E-02
C4	1.232743E+01	6.289288E-02	-5.375110E-07
C5	-7.105130E+00	-1.140595E-01	6.869208E-05
C6	7.741362E-01	8.265422E-01	3.494717E-03
C7	1.031508E-01	-5.825199E-04	1.968433E-08
C8	-7.841540E-02	-1.240342E-03	5.163141E-07
C9	2.547529E-02	1.654273E-03	5.868897E-06
C10	-3.324844E-09	-1.580902E-09	8.657920E-13

Note:The polynomial coefficients subject to change without notice.

DIMENSIONAL SKETCH

C-SB Series Single Phase

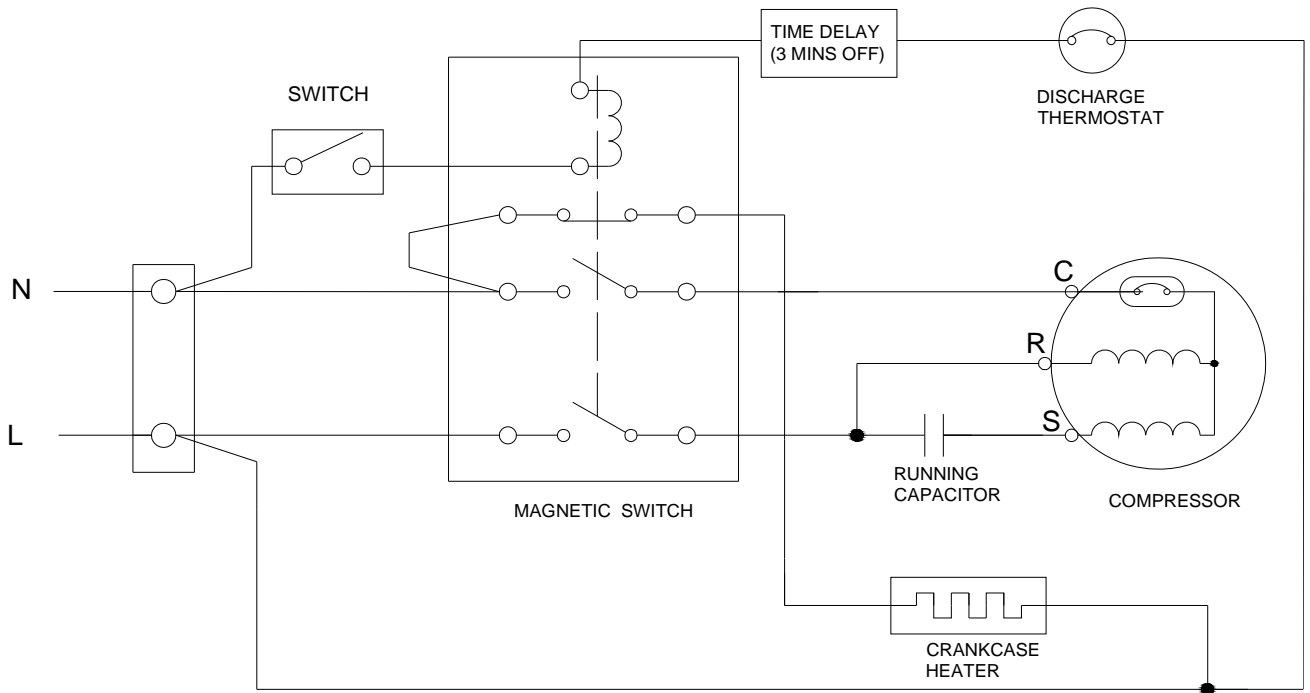


No.	Qty	Name
1	1	Compressor
2	1	Terminal Box Cover
3	1	Terminal Box Clip
4	1	Insulating Grommet
5	1	Nameplate
6	1	Screw Special

WIRING & MOUNTING SKETCH

WIRING DIAGRAM

C-SB Series 1phase (PSC)



MOUNTING SKETCH

