SANYO SCROLL COMPRESSORS

Model : C-SBS200H15H

DALIAN SANYO COMPRESSOR CO.,LTD.

Rev. 2009-5

SANYO Scroll Compressor

Model	C-SBS200H15H
Refrigerant	R407C
Electrical	220-240 Volts 1 Phase 50Hz

Nominal Performance at ARI

Power Source		50Hz-220V
Capacity	(W)	16400
Power	(W)	5600
Current	(A)	25.6
COP	(W/W)	2.93
Mass Flow	(kg/h)	-

Rating Conditions(Mid Point)

Condensing Temperature(℃)	54.4
Evaporating Temperature(℃)	7.2
Return Gas temperature(℃)	18.3
Liquid Temperature(℃)	43.8
Ambient Temperature(℃)	35.0

Motor

	50Hz
Voltage Range(V)	198-264
RLA (A)	-
MCC (A)	-
LRA (A)	130
RPM (min^{-1})	2900
Motor Type	PSC

Compressor

Maximum Discharge Temp(℃)	130
Displacement (cm^3/rev)	93.1
Weight (with oil kg)	40

Oil

Oil Type	FV68S
Initial Charge (ml)	1700
Re-charge (ml)	1600

Electrical Components

Motor Protector Type	Internal
Run Capacitor Rating (MFD/Volts)	80/440

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	**C-SBS200H15H**
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	Evaporating Temperature(℃)							
Temperature(℃)	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	9,100	11,140	12,740	16,730	20,000	22,410	25,100	27,230
40.5	8,320	10,190	11,660	15,320	18,320	20,530	23,010	24,960
45.0	7,720	9,470	10,830	14,240	17,040	19,100	21,410	23,230
50.0	7,110	8,720	9,980	13,120	15,710	17,610	19,750	21,430
54.4		8,110	9,280	12,210	14,620	16,400	18,390	19,960
60.0			8,470	11,150	13,350	14,980	16,800	18,240
65.0				10,280	12,330	13,830	15,520	16,850

POWER(W)

Condensing	Evaporating Temperature(℃)							
Temperature(℃)	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	3,470	3,500	3,520	3,560	3,580	3,600	3,610	3,620
40.5	3,950	3,980	4,000	4,030	4,050	4,060	4,070	4,080
45.0	4,430	4,450	4,460	4,480	4,490	4,500	4,510	4,510
50.0	5,040	5,040	5,040	5,050	5,050	5,050	5,060	5,060
54.4		5,630	5,620	5,610	5,600	5,600	5,600	5,600
60.0			6,450	6,410	6,390	6,370	6,360	6,360
65.0				7,200	7,160	7,140	7,120	7,100

CURRENT(A) @220V

Condensing	Evaporating Temperature(℃)							
Temperature(℃)	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	15.7	15.8	15.9	16.1	16.2	16.2	16.3	16.3
40.5	17.9	18.0	18.1	18.3	18.3	18.4	18.4	18.5
45.0	20.1	20.2	20.3	20.3	20.4	20.4	20.5	20.5
50.0	23.0	23.0	23.0	23.0	23.0	23.0	23.1	23.1
54.4		25.7	25.7	25.7	25.6	25.6	25.6	25.6
60.0			29.6	29.4	29.3	29.3	29.2	29.2
65.0				33.1	33.0	32.9	32.8	32.7

NOTE:

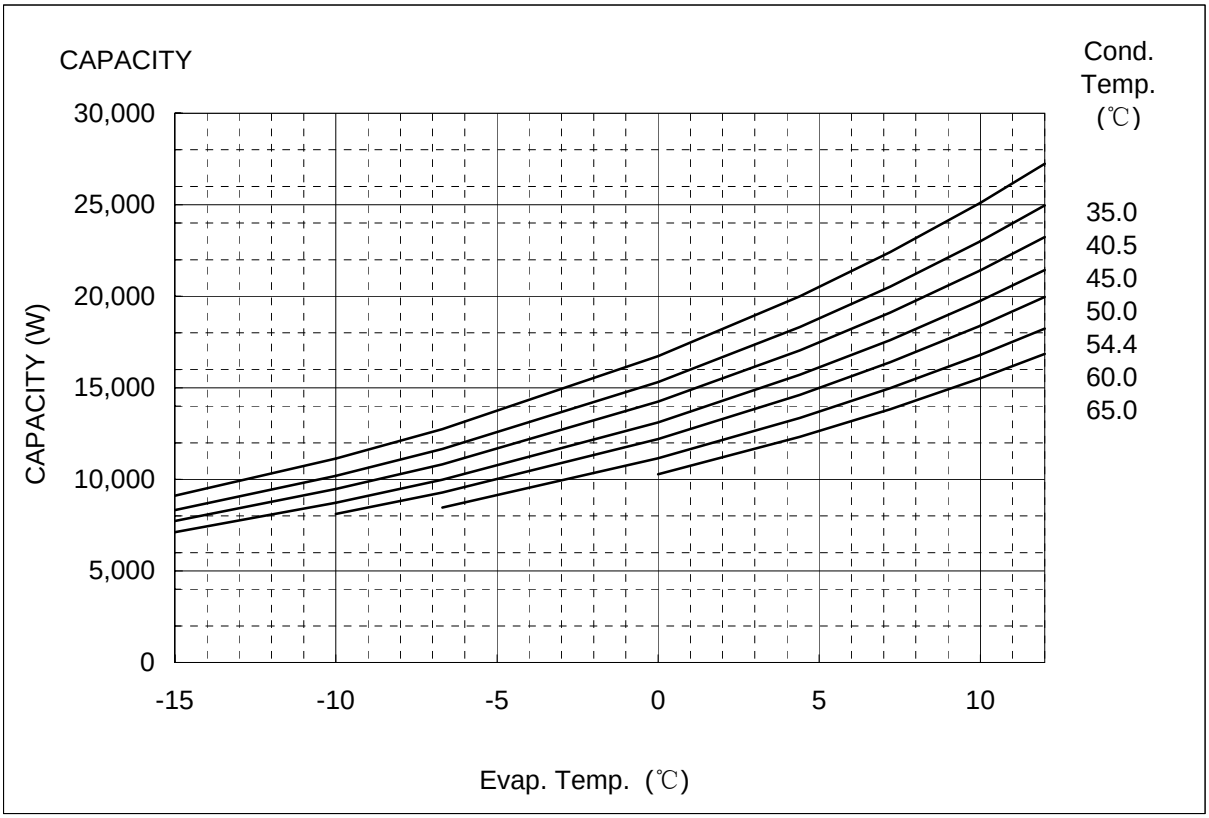
*** The performance values subject to change without notice.**

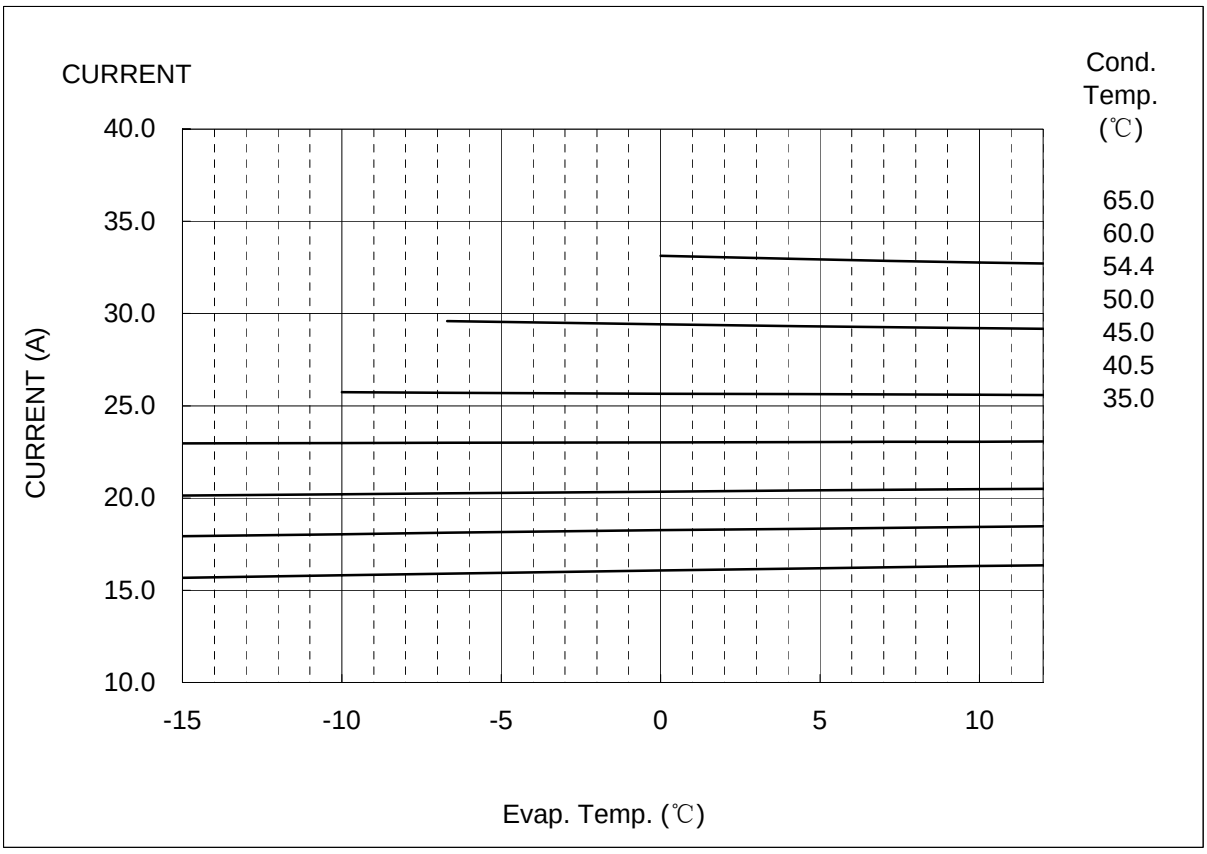
*** The performance values are based on MID point method.**

Dalian SANYO Compressor Co.,Ltd.

Compressor Model **C-SBS200H15H**

Power Source **1PH 50Hz 220-240V**





COEFFICIENTS OF PERFORMANCE CURVES

Compressor Model	**C-SBS200H15H**
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*(S2)+C5*(S*D)+C6*(D2)+C7*(S3)+C8*(D*S2)+C9*(S*D2) +C10*(D3)

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

S——EVAPORATING TEMP, °C

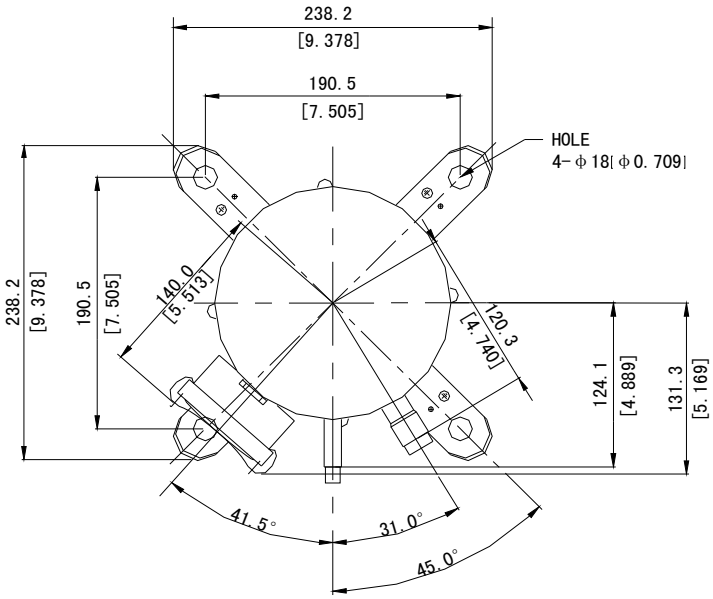
D——CONDENSING TEMP, °C

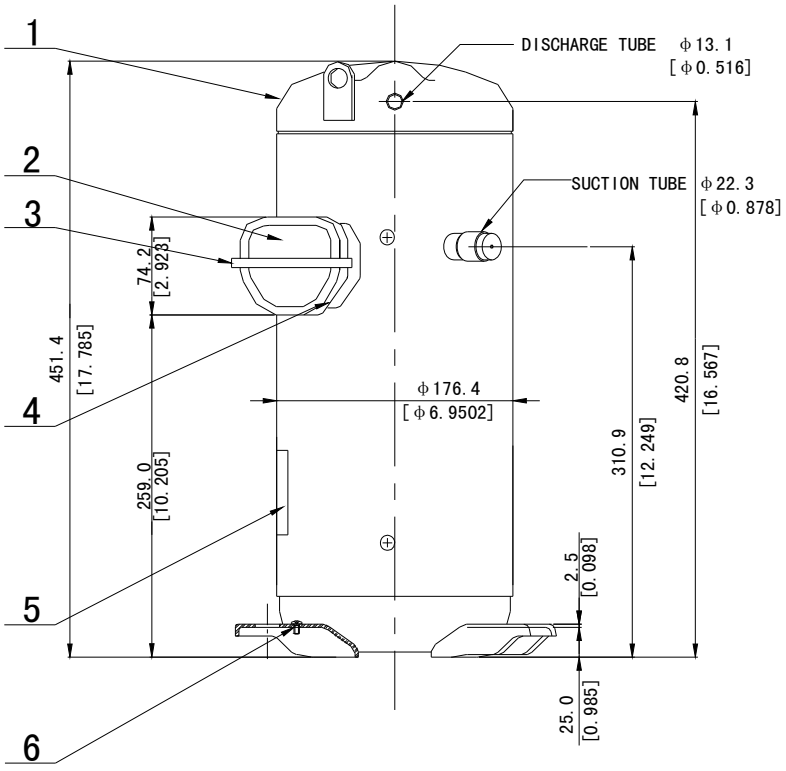
220V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	2.820124E+04	2.690579E+03	1.234511E+01
C2	1.157727E+03	-5.912397E+00	-2.235744E-02
C3	-3.891768E+02	-2.706829E+01	-1.419396E-01
C4	2.040895E+01	-2.302092E-01	-8.586757E-04
C5	-1.616613E+01	7.641842E-01	3.227797E-03
C6	1.748861E+00	1.484002E+00	7.105489E-03
C7	1.563554E-01	7.906538E-04	2.054167E-06
C8	-1.829797E-01	5.091524E-03	1.855255E-05
C9	7.445716E-02	-1.260415E-02	-5.414907E-05
C10	-1.586252E-08	9.683487E-10	-3.597324E-12

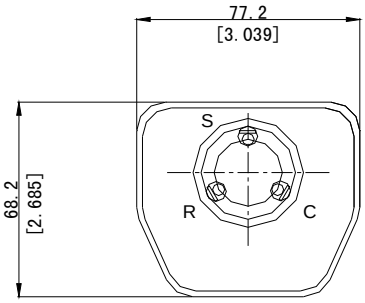
Note:The polynomial coefficients subject to change without notice.

DIMENSIONAL SKETCH

C-SB Series Single Phase







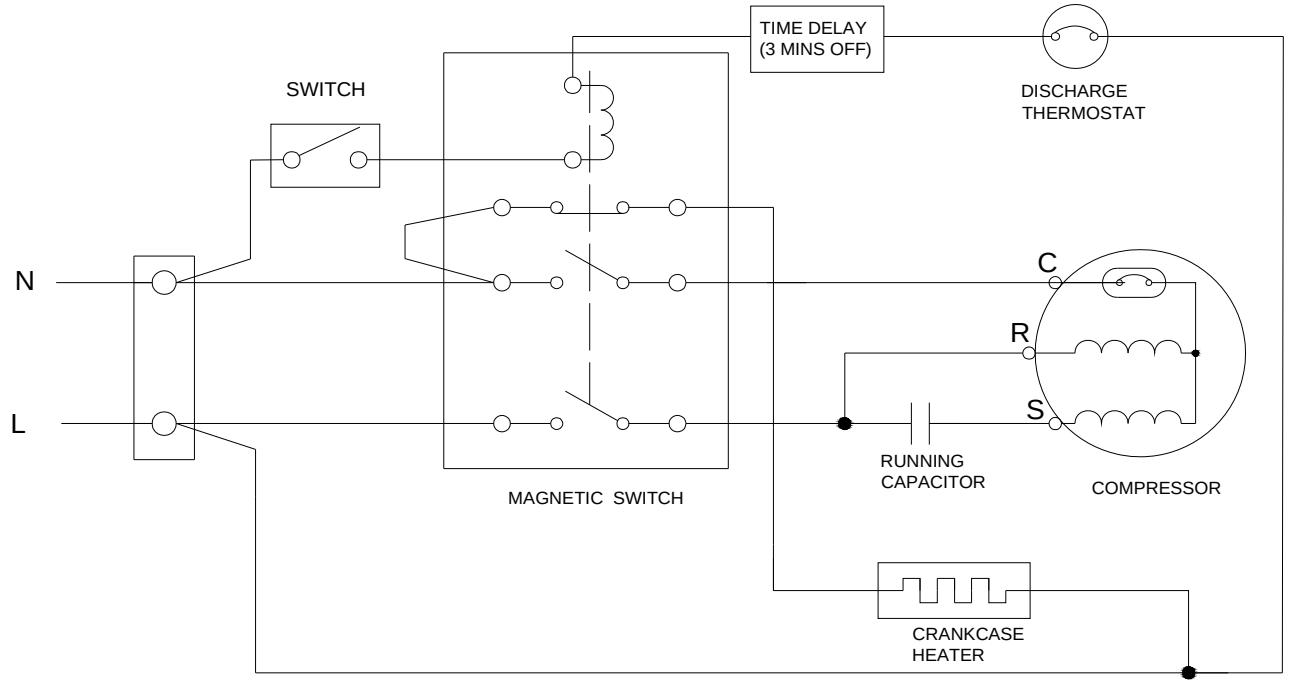
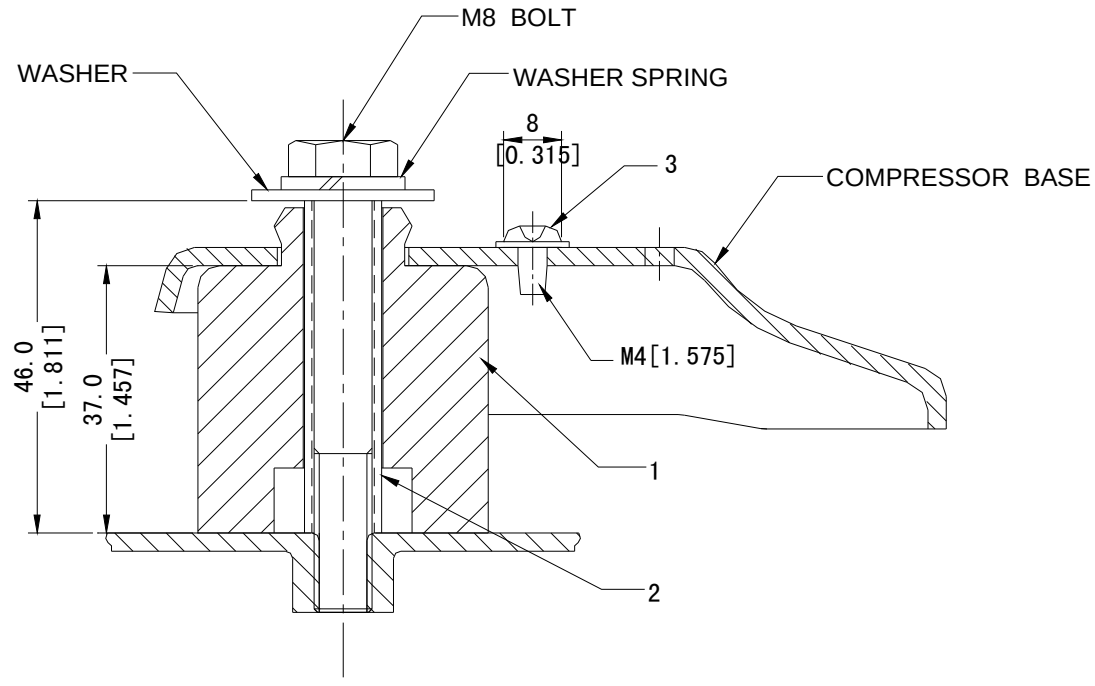
TERMINAL

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 1phase (PSC)



MOUNTING SKETCH