

SANYO

SPECIFICATIONS OF COMPRESSOR

Model No: C-SBS120H38A

Output : 3.5HP



DALIAN SANYO COMPRESSOR Co.,Ltd.

30-Aug-10

GENERAL SPECIFICATIONS

Model No:	C-SBS120H38A	
Application		
Evaporating Temp Range	(°C)	-15.0 ~ 12.0
Refrigerant	R407C	
Compressor Cooling	Natural Cooling	
Rated Performance		
Capacity	(W)	10000
Input	(W)	3200
Current	(A)	6.0
Revolution	(min ⁻¹)	2900
Sound Level	(dB(A))	60(MAX)
Rating Conditions		
Power Source	3-PH 380V 50Hz	
Evaporating Temp	(°C)	7.2
Condensing Temp	(°C)	54.4
Suction Gas Temp	(°C)	18.3
Liquid Temp	(°C)	43.8
Ambient Temp	(°C)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design	Hermetic Scroll	
Displacement	(cm ³ /rev)	55.7
Suction Line Connection	(Φ mm OD)	22.22
Discharge Line Connection	(Φ mm OD)	12.7
Oil	(ml)	1700 (FV68S)
Mass(Incl.Oil)	(kg)	40
Motor		
Type	3-PH Induction Motor(3IR)	
Pole	2	
Rated Power Source	3-PH 50Hz 380V	
Voltage Range	(V)	342~418
Starting Current	(A)	52

DALIAN SANYO COMPRESSOR Co.,Ltd.

PERFORMANCE DATA

Compressor Model	C-SBS120H38A
Power Source	3PH 50Hz 380V
Suction Gas Superheat(K)	11.1
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	5,770	6,980	7,920	10,220	12,090	13,450	14,970	16,160
40.5	5,260	6,380	7,240	9,380	11,110	12,380	13,800	14,900
45.0	4,870	5,910	6,720	8,730	10,360	11,560	12,890	13,940
50.0	4,460	5,430	6,190	8,060	9,580	10,700	11,950	12,930
54.4		5,040	5,750	7,510	8,950	10,000	11,180	12,100
60.0			5,240	6,870	8,200	9,170	10,270	11,130
65.0				6,350	7,590	8,500	9,530	10,340

POWER(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	2,190	2,170	2,170	2,150	2,140	2,130	2,120	2,120
40.5	2,420	2,410	2,410	2,400	2,390	2,380	2,370	2,370
45.0	2,640	2,640	2,630	2,630	2,620	2,620	2,610	2,610
50.0	2,900	2,910	2,910	2,920	2,920	2,910	2,910	2,900
54.4		3,170	3,180	3,200	3,200	3,200	3,200	3,190
60.0			3,560	3,590	3,600	3,600	3,600	3,600
65.0				3,980	3,990	4,000	4,000	4,000

CURRENT(A)

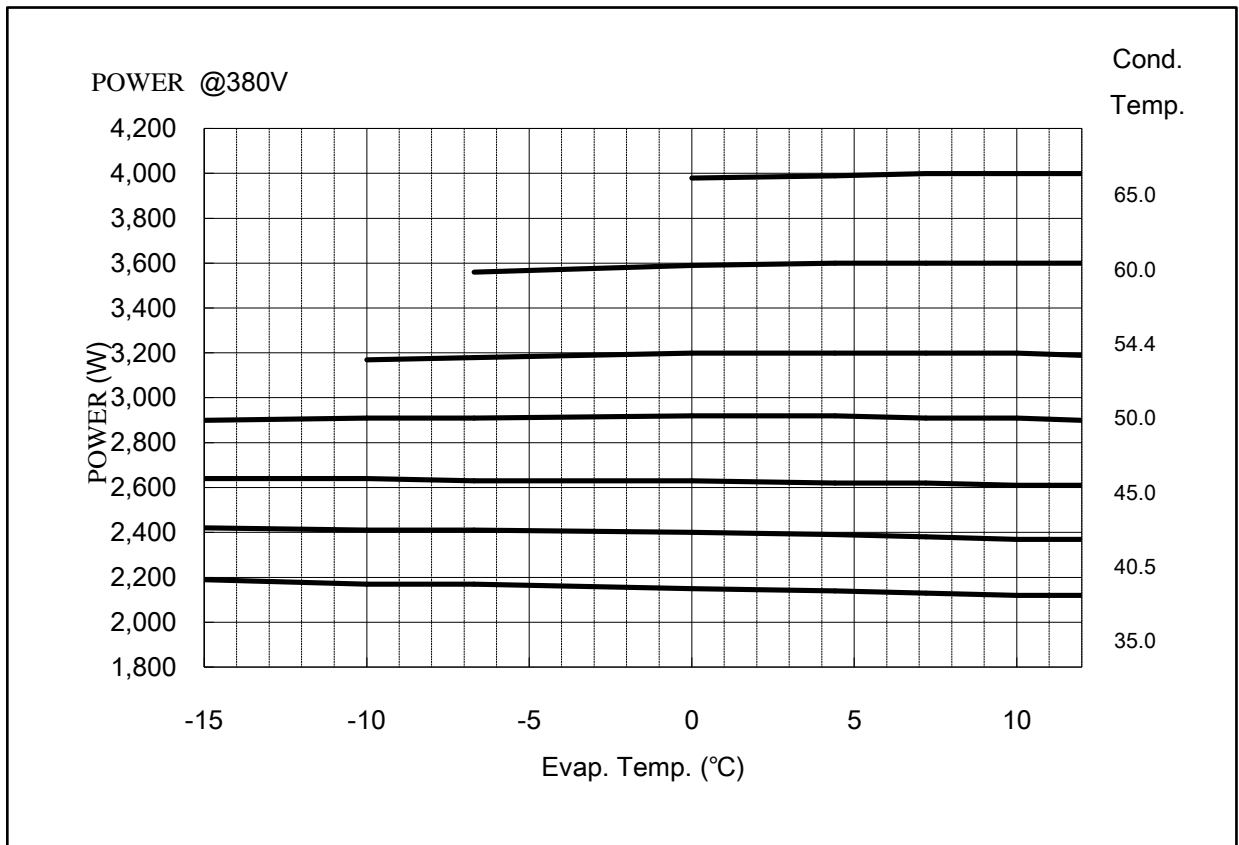
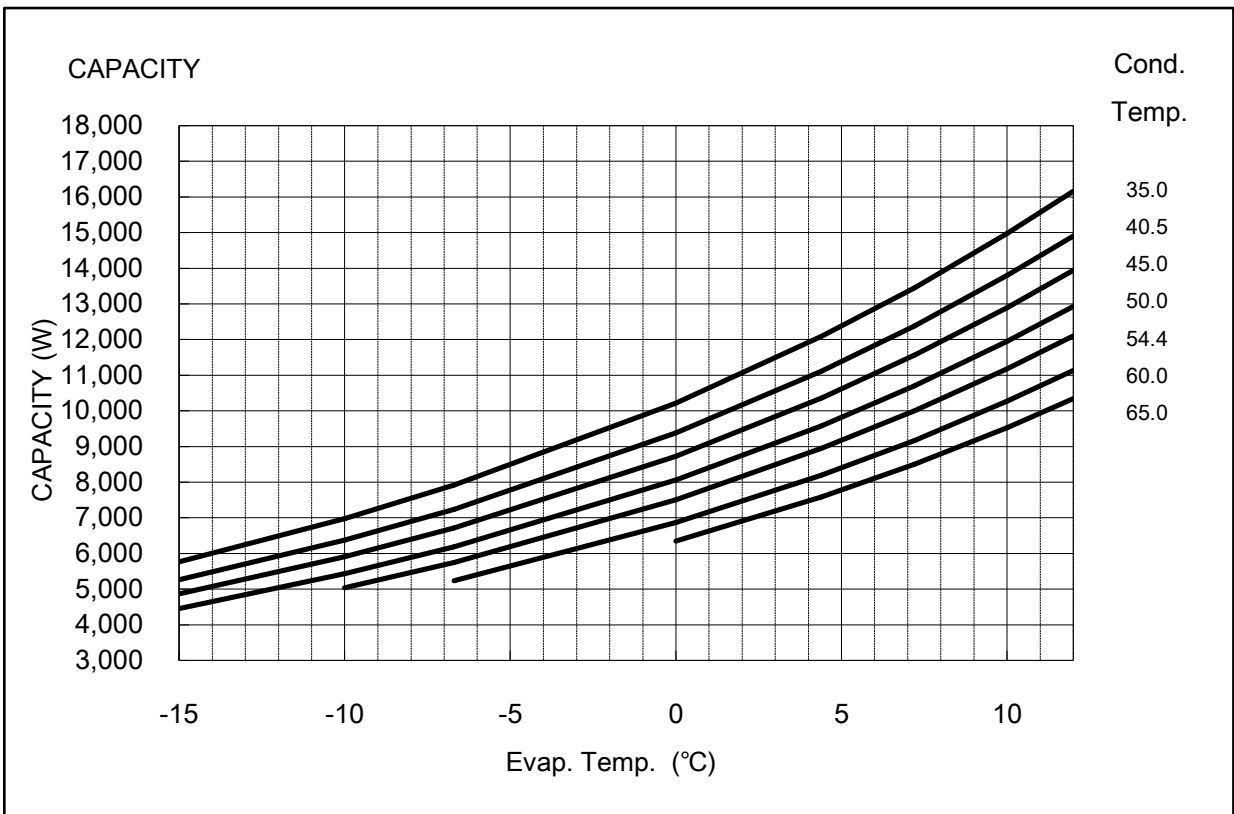
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.5
40.5	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9
45.0	5.3	5.3	5.2	5.2	5.2	5.2	5.2	5.2
50.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
54.4		6.0	6.0	6.0	6.0	6.0	6.0	6.0
60.0			6.5	6.5	6.5	6.5	6.5	6.5
65.0				7.0	7.0	7.0	7.0	7.0

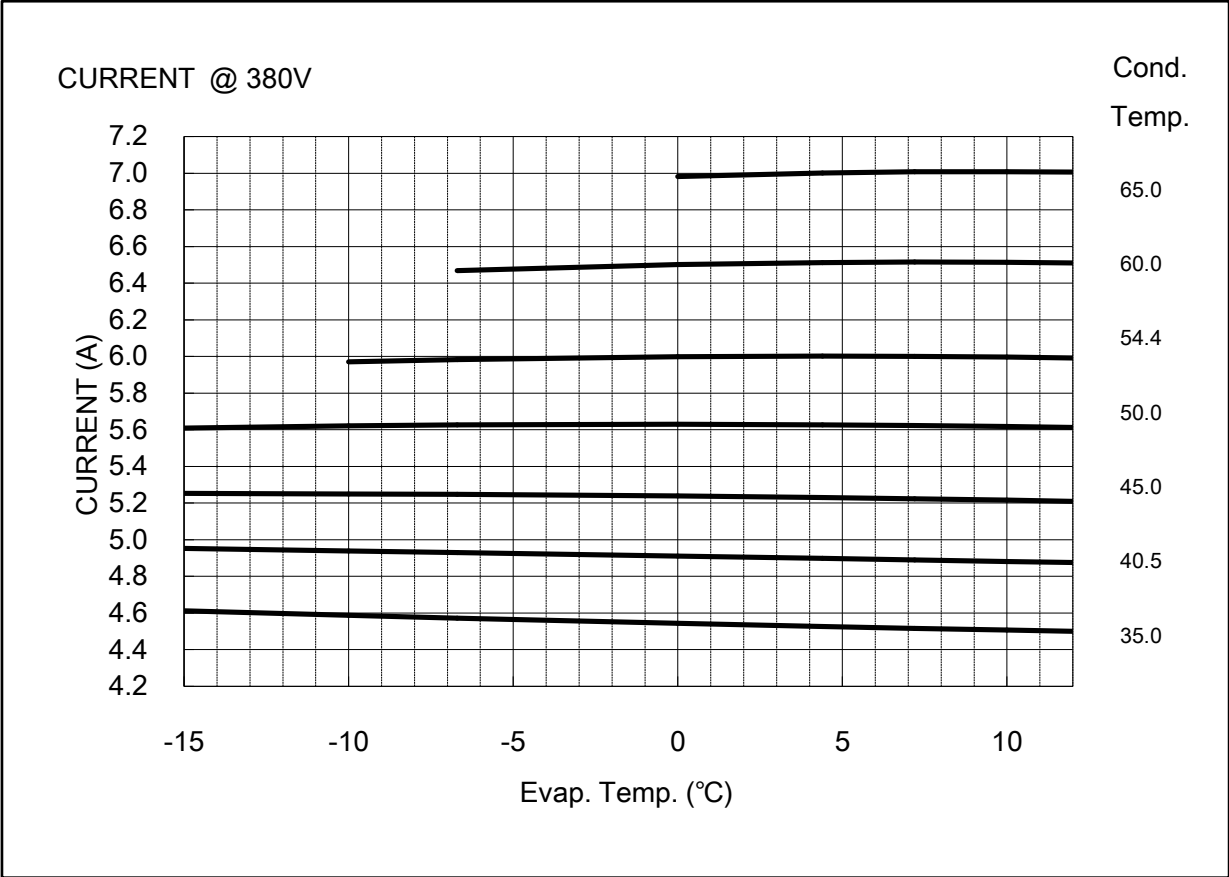
MASS FLOW(kg/h)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	117	139	156	196	228	252	277	297
40.5	113	135	151	191	222	245	270	290
45.0	110	131	147	186	218	240	265	285
50.0	106	127	143	181	212	235	259	279
54.4		124	139	177	208	230	255	274
60.0			135	172	202	224	248	267
65.0				168	197	219	243	262

Compressor Model(Code)
Power Source

C-SBS120H38A
3PH 50Hz 380V





COEFFICIENTS OF PERFORMANCE CURVES

Compressor Model **C-SBS120H38A**
 Power Source **3PH 50Hz 380V**
 Suction Gas Superheat (K) **11.1**
 Sub Cooling (K) **8.3**
 Compressor Cooling **Natural Cooling**
 Refrigerant **R407C**

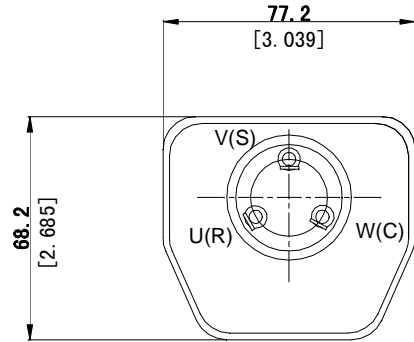
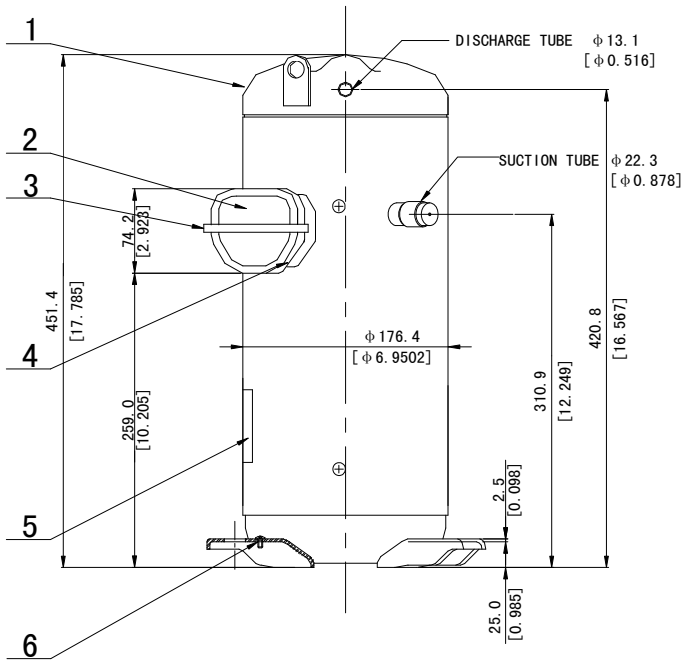
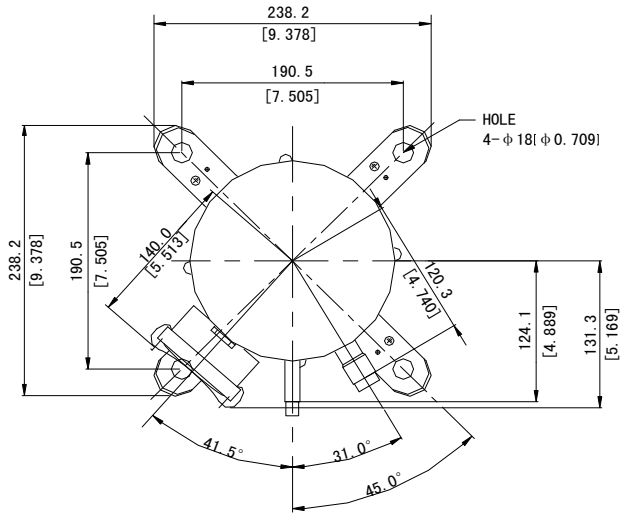
$X=C1+C2*(S)+C3*D+C4*(S^2)+C5*(S*D)+C6*(D^2)+C7*(S^3)+C8*(D*S^2)+C9*(S*D^2) +C10*(D^3)$
 X—CAPACITY(W) OR POWER(W) OR CURRENT(A) OR FLOW(kg/h)
 S—EVAPORATING TEMP, °C
 D—CONDENSING TEMP, °C

380V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)	FLOW (kg/h)
1	1.703152E+04	1.469202E+03	3.033649E+00	2.352337E+02
2	6.202113E+02	9.961031E-01	-5.362019E-03	7.365591E+00
3	-2.300646E+02	-2.884057E+00	2.264748E-02	-1.202633E+00
4	1.040601E+01	2.456296E-01	4.032961E-04	1.189710E-01
5	-7.669925E+00	-2.784411E-01	-1.081879E-04	-1.685560E-02
6	1.010659E+00	6.372105E-01	5.857790E-04	2.505750E-03
7	8.434834E-02	-2.050644E-03	-4.107294E-07	1.328881E-03
8	-8.012634E-02	-6.980664E-03	-1.030507E-05	-1.290208E-05
9	3.223504E-02	5.231903E-03	4.234507E-06	-1.131839E-05
10	5.105909E-09	4.770454E-09	1.647799E-12	-4.662568E-11

Note: 1、 The polynomial coefficients subject to change without notice.
 2、 The compressor being tested under middle point condition.

DIMENSIONAL SKETCH

C-SB Series



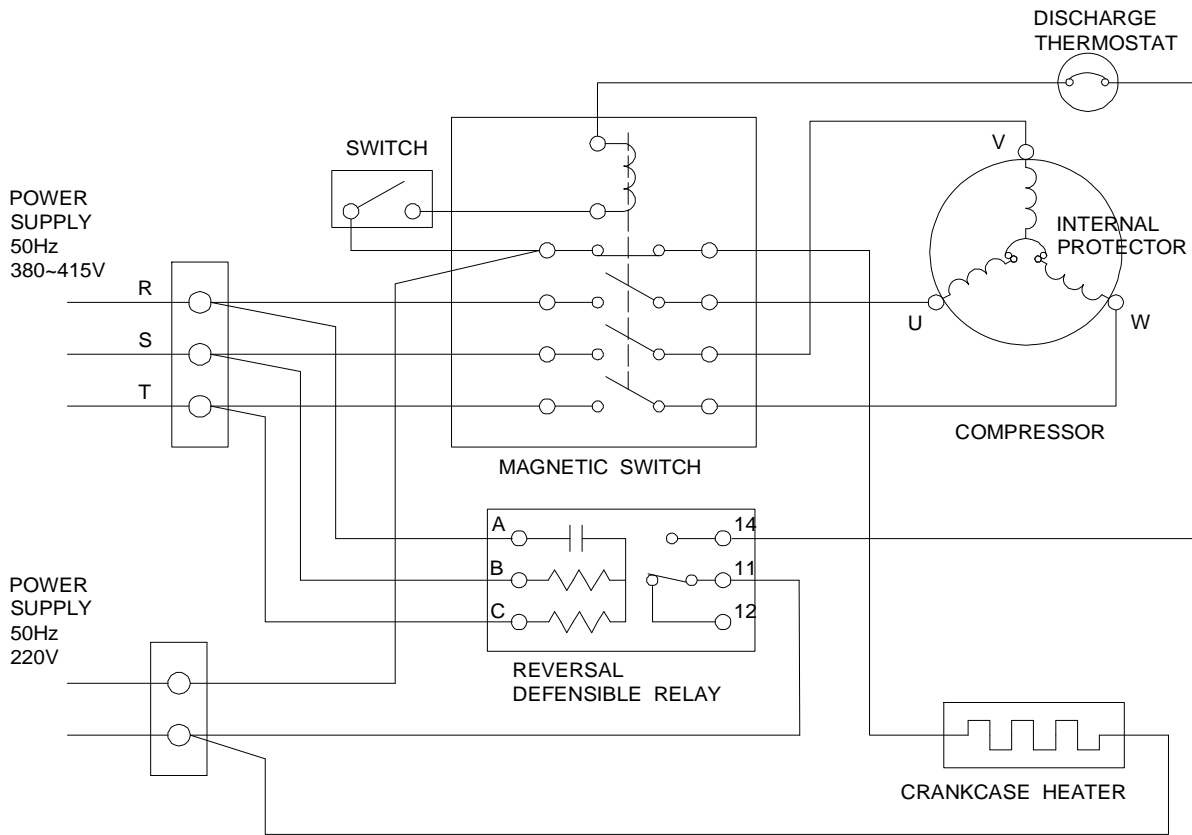
TERMINAL

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

