

SANYO

SPECIFICATIONS OF COMPRESSOR

Model No: C-SBS145H38A

Output : 4HP



DALIAN SANYO COMPRESSOR Co.,Ltd.

30-Aug-10

GENERAL SPECIFICATIONS

Model No:		C-SBS145H38A
Application		
Evaporating Temp Range	(°C)	-15.0 ~ 12.0
Refrigerant		R407C
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	12000
Input	(W)	3800
Current	(A)	6.9
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)	66.8
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)	63

DALIAN SANYO COMPRESSOR Co.,Ltd.

PERFORMANCE DATA

Compressor Model	C-SBS145H38A
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	6,530	8,020	9,180	12,080	14,470	16,230	18,210	19,770
40.5	6,100	7,460	8,520	11,160	13,320	14,910	16,690	18,090
45.0	5,770	7,030	8,020	10,450	12,440	13,910	15,540	16,820
50.0	5,420	6,580	7,480	9,710	11,530	12,860	14,340	15,500
54.4		6,210	7,040	9,110	10,780	12,000	13,360	14,420
60.0			6,520	8,390	9,900	10,990	12,210	13,160
65.0				7,800	9,180	10,170	11,280	12,140

POWER(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	2,550	2,560	2,560	2,560	2,550	2,550	2,550	2,540
40.5	2,840	2,840	2,850	2,850	2,850	2,850	2,840	2,840
45.0	3,100	3,110	3,120	3,120	3,120	3,120	3,120	3,120
50.0	3,430	3,440	3,450	3,460	3,460	3,470	3,470	3,470
54.4		3,770	3,770	3,790	3,790	3,800	3,810	3,810
60.0			4,220	4,240	4,260	4,270	4,280	4,290
65.0				4,690	4,710	4,730	4,740	4,750

CURRENT(A)

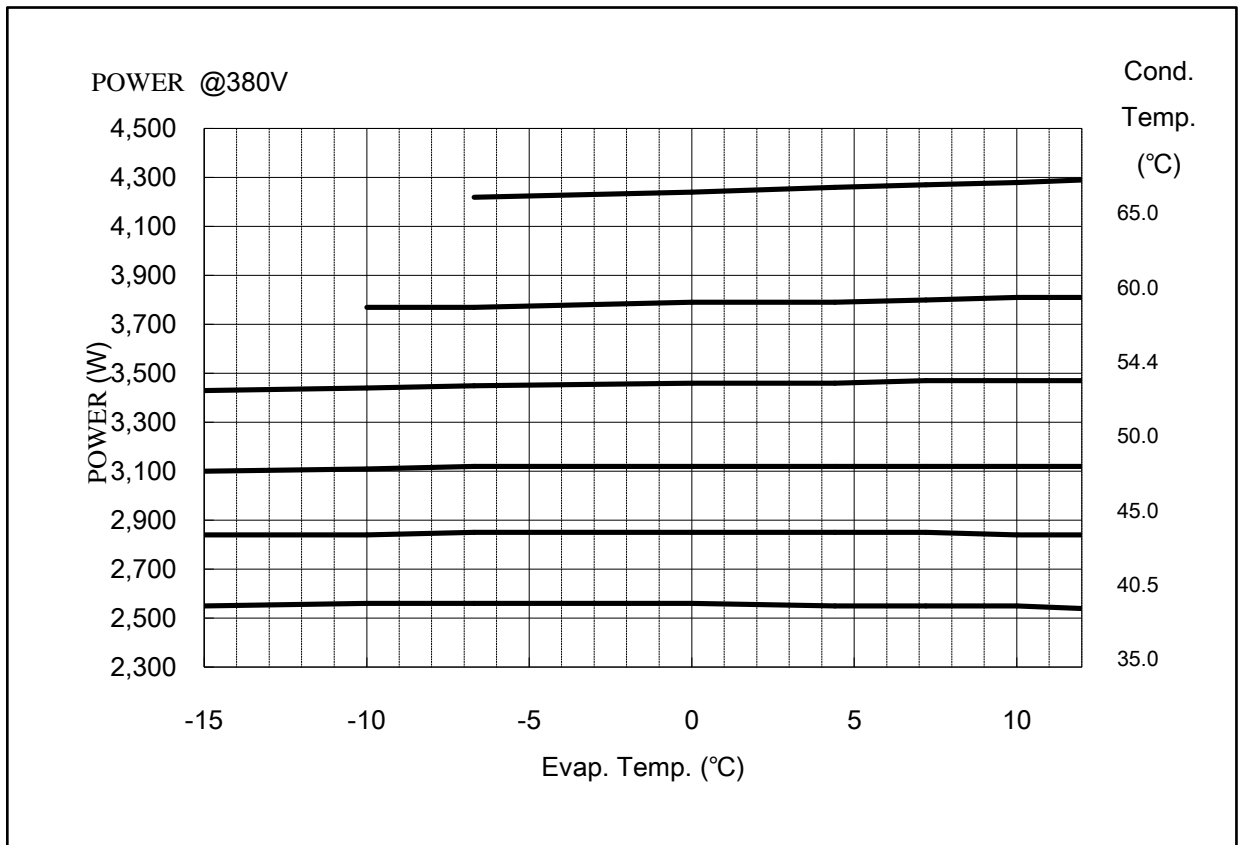
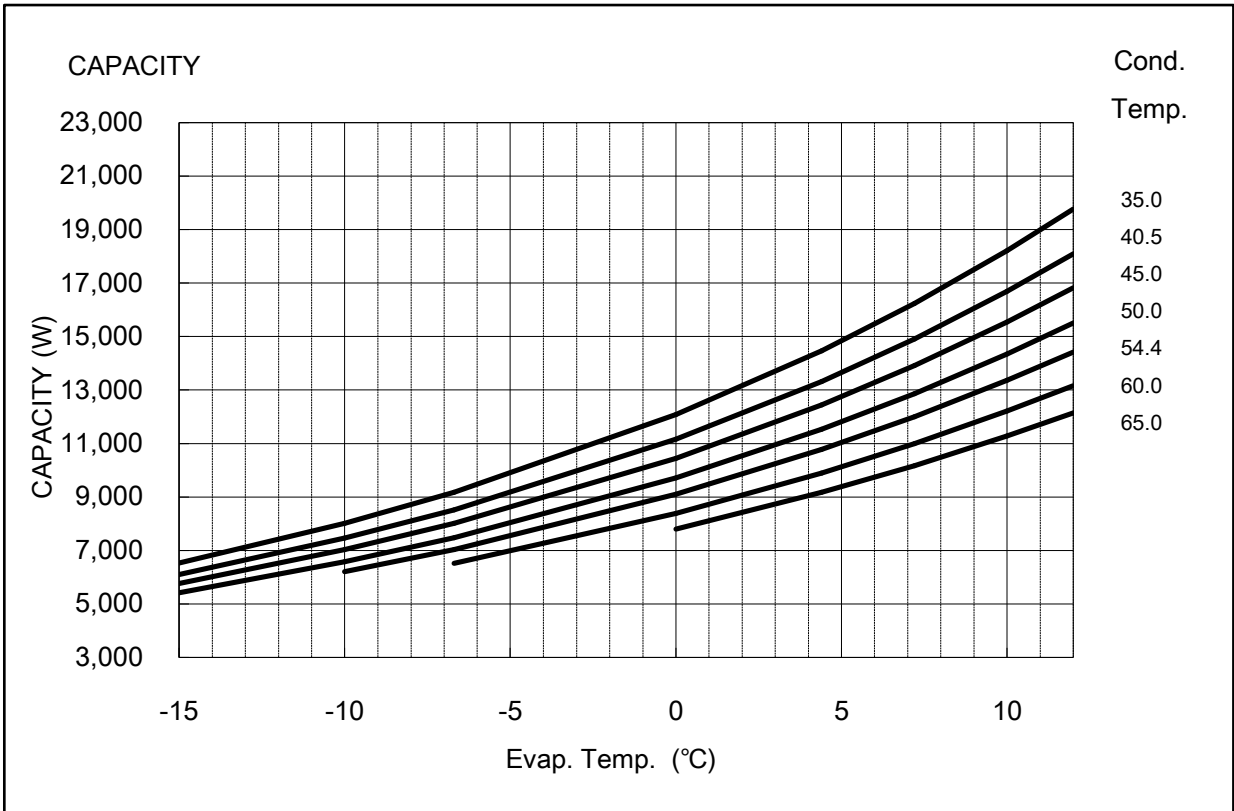
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
40.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
45.0	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
50.0	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
54.4		6.9	6.9	6.9	6.9	6.9	6.9	6.9
60.0			7.5	7.5	7.5	7.5	7.5	7.6
65.0				8.1	8.1	8.1	8.1	8.2

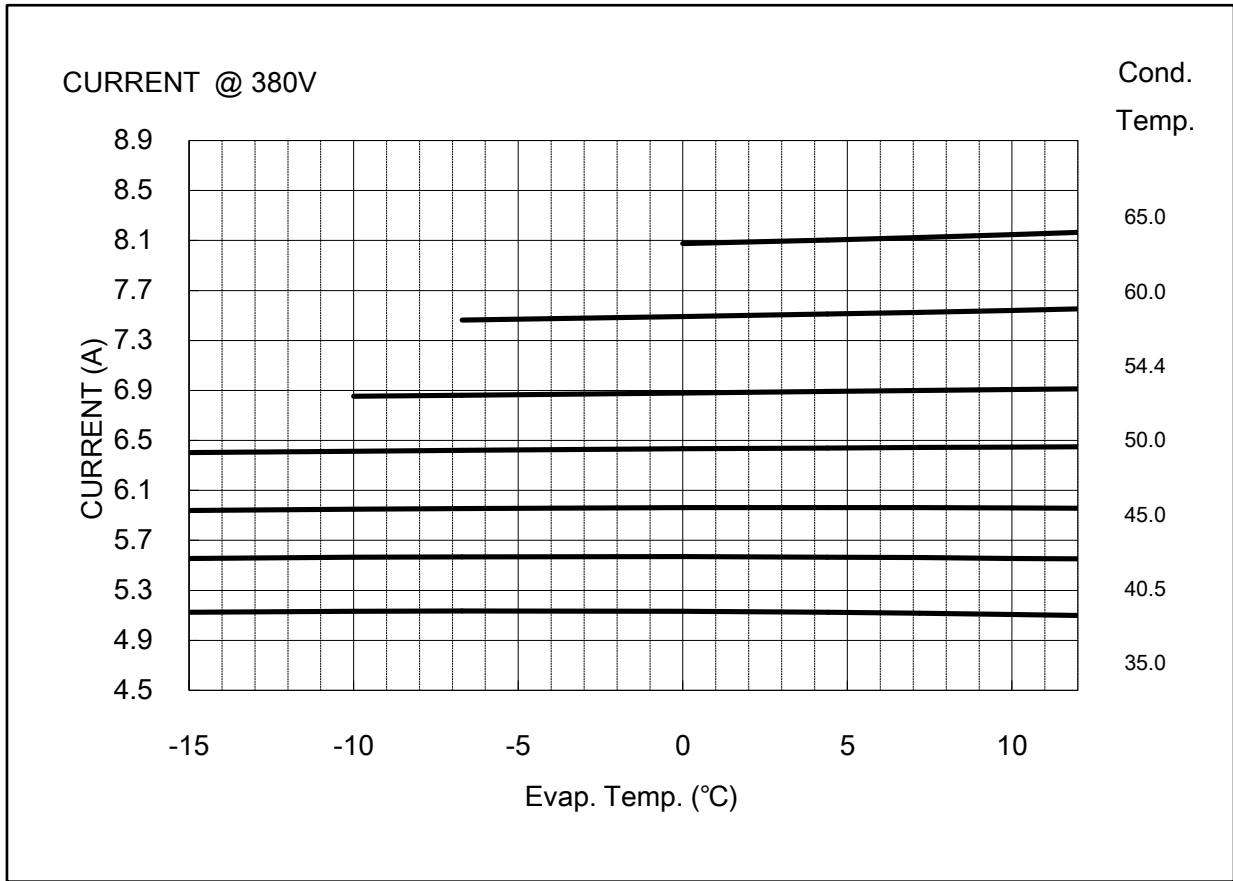
MASS FLOW(kg/h)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	133	160	181	233	275	305	338	365
40.5	132	158	178	228	268	297	329	354
45.0	131	156	176	224	262	290	321	345
50.0	129	154	173	220	256	283	313	335
54.4		153	171	216	251	277	305	327
60.0			168	211	245	270	296	317
65.0				207	240	263	289	308

Compressor Model(Code)
Power Source

C-SBS145H38A
3PH 50Hz 380V





COEFFICIENTS OF PERFORMANCE CURVES

Compressor Model **C-SBS145H38A**
 Power Source **3PH 50Hz 380V**
 Suction Gas Superheat (K) **11.1**
 Sub Cooling (K) **8.3**
 Compressor Cooling **Natural Cooling**
 Refrigerant **R407C**

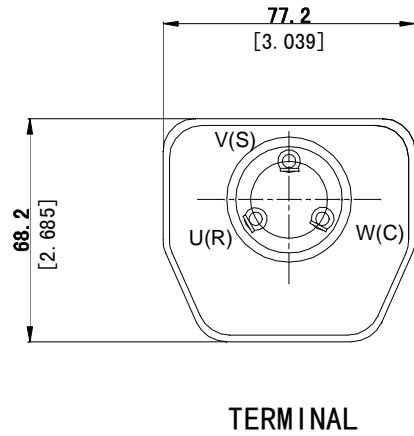
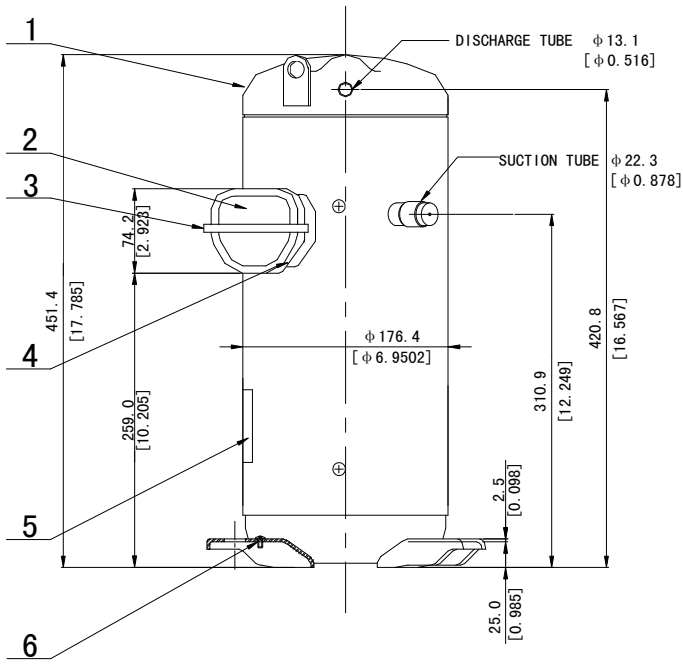
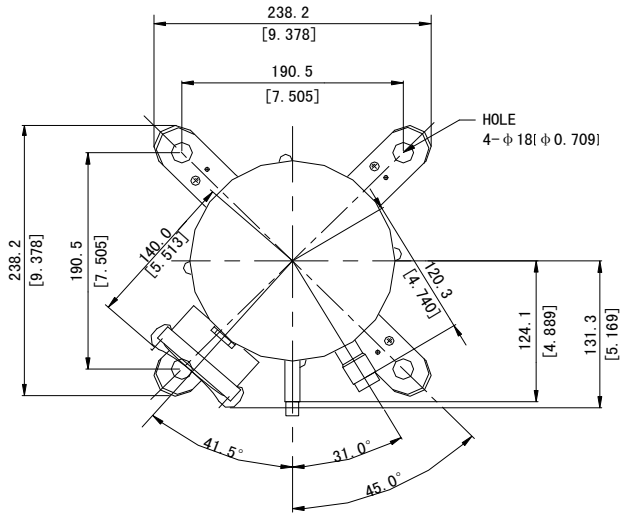
$X=C1+C2*(S)+C3*D+C4*(S^2)+C5*(S*D)+C6*(D^2)+C7*(S^3)+C8*(D*S^2)+C9*(S*D^2) +C10*(D^3)$
 X—CAPACITY(W) OR POWER(W) OR CURRENT(A) OR FLOW(kg/h)
 S—EVAPORATING TEMP, °C
 D—CONDENSING TEMP, °C

380V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)	FLOW (kg/h)
1	1.946479E+04	1.757725E+03	3.432897E+00	2.670530E+02
2	9.132365E+02	1.784669E-01	-1.003684E-03	1.150794E+01
3	-2.481270E+02	-3.048576E+00	2.191285E-02	-1.042114E+00
4	1.662491E+01	-2.007302E-01	-3.579422E-04	2.251347E-01
5	-1.436548E+01	-1.398213E-01	-1.497364E-04	-8.779870E-02
6	1.059845E+00	7.412280E-01	7.618385E-04	1.807150E-03
7	1.085811E-01	1.083798E-03	3.673159E-07	1.691944E-03
8	-1.811382E-01	3.525479E-03	6.674391E-06	-1.716295E-03
9	7.271992E-02	3.207918E-03	4.029133E-06	2.495098E-04
10	-3.586178E-08	-7.774100E-09	1.380062E-12	-1.593665E-10

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

DIMENSIONAL SKETCH

C-SB Series



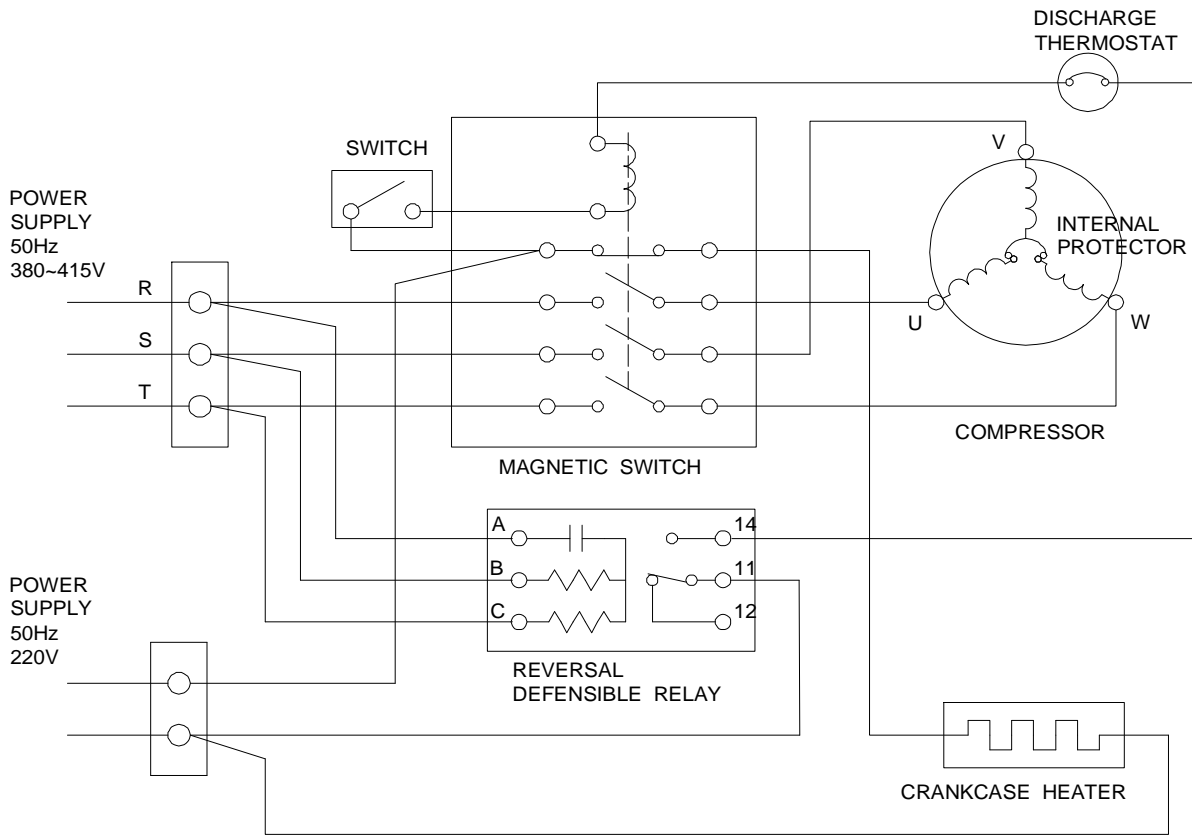
TERMINAL

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

