SANYO SCROLL COMPRESSORS

Code : 809 933 88

Model : C-SBN263H8D

DALIAN SANYO COMPRESSOR CO.,LTD.

Rev. 2007-5

SANYO Scroll Compressor

Model	C-SBN263H8D	**Electrical**	380-415 Volts 3 Phase 50Hz
Refrigerant	R410A		440-460 Volts 3 Phase 60Hz

Nominal Performance at ARI

Power Source		50Hz-380V	60Hz-440V
Capacity	(W)	8850	11600
Power	(W)	3550	4200
Current	(A)	6.35	6.36
COP	(W/W)	2.49	2.76
Mass Flow	(kg/h)	203	266

Rating Conditions

Condensing Temperature(℃)	54.4
Evaporating Temperature(℃)	7.2
Return Gas temperature(℃)	18.3
Liquid Temperature(℃)	46.1
Ambient Temperature(℃)	35

Motor

	50Hz	60Hz
Voltage Range(V)	342-456	396-506
RLA (A)	7.7	
MCC (A)	10.8	
LRA (A)	48	52
RPM (min^{-1})	2900	3450

Compressor

Maximum Discharge Temp(℃)	130
Displacement (cm^3/rev)	37.5
Weight (with oil kg)	38

Oil

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

Electrical Components

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

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-SBN263H8D (809 933 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(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	4,750	5,820	6,660	8,760	10,480	11,750	13,170	14,290
40.5	4,390	5,390	6,160	8,100	9,680	10,860	12,170	13,200
45.0	4,120	5,050	5,780	7,590	9,070	10,170	11,390	12,360
50.0	3,840	4,700	5,370	7,050	8,430	9,440	10,580	11,480
54.4		4,410	5,040	6,610	7,900	8,850	9,910	10,750
60.0			4,650	6,090	7,280	8,150	9,120	9,890
65.0				5,660	6,760	7,570	8,470	9,190

POWER(W)

Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	2,390	2,400	2,400	2,380	2,340	2,320	2,280	2,260
40.5	2,680	2,690	2,690	2,660	2,620	2,600	2,560	2,530
45.0	2,960	2,970	2,960	2,930	2,900	2,870	2,830	2,800
50.0	3,310	3,320	3,310	3,280	3,240	3,210	3,170	3,150
54.4		3,670	3,660	3,620	3,580	3,550	3,520	3,490
60.0			4,150	4,100	4,060	4,030	4,000	3,970
65.0				4,580	4,540	4,510	4,480	4,460

CURRENT(A) @380V

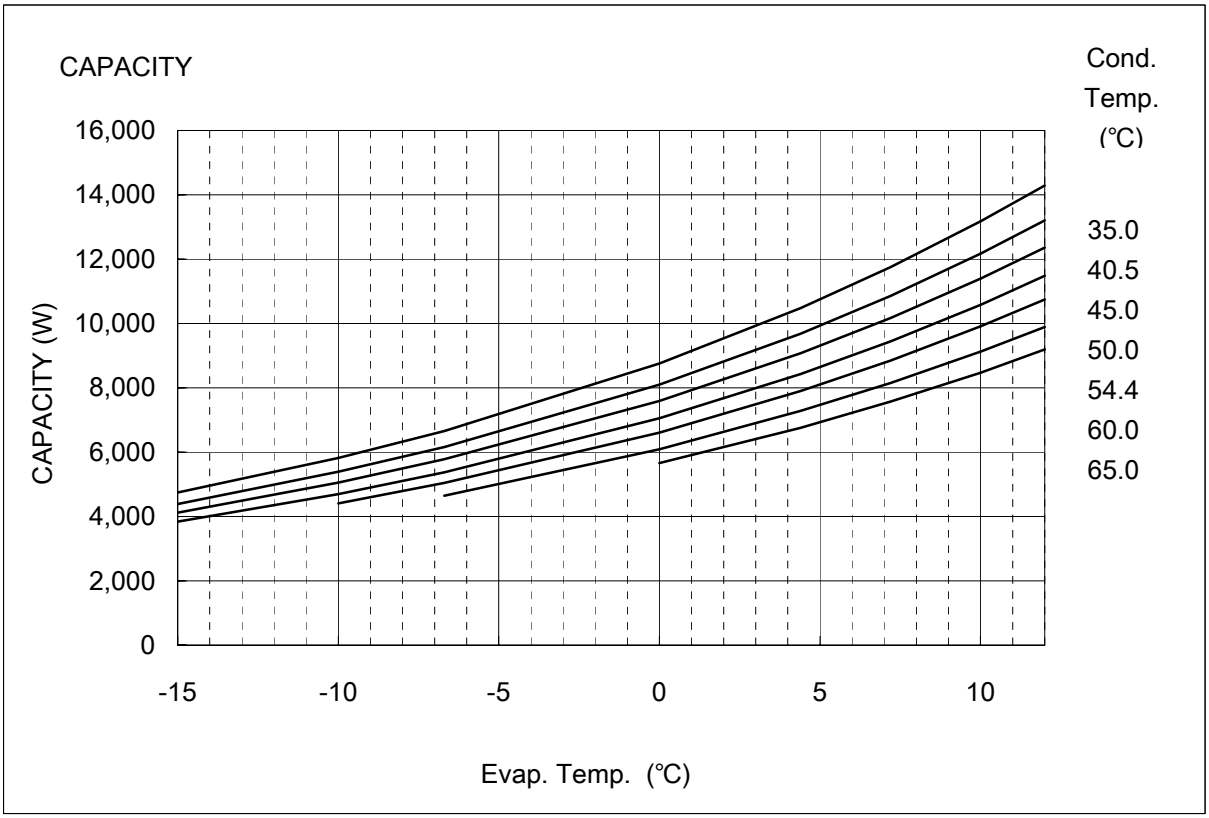
Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	4.8	4.9	4.9	4.9	4.9	4.8	4.8	4.7
40.5	5.2	5.3	5.3	5.3	5.2	5.2	5.1	5.1
45.0	5.6	5.6	5.6	5.6	5.6	5.5	5.5	5.4
50.0	6.0	6.0	6.1	6.0	6.0	6.0	5.9	5.9
54.4		6.5	6.5	6.4	6.4	6.3	6.3	6.3
60.0			7.0	7.0	6.9	6.9	6.9	6.8
65.0				7.5	7.4	7.4	7.4	7.4

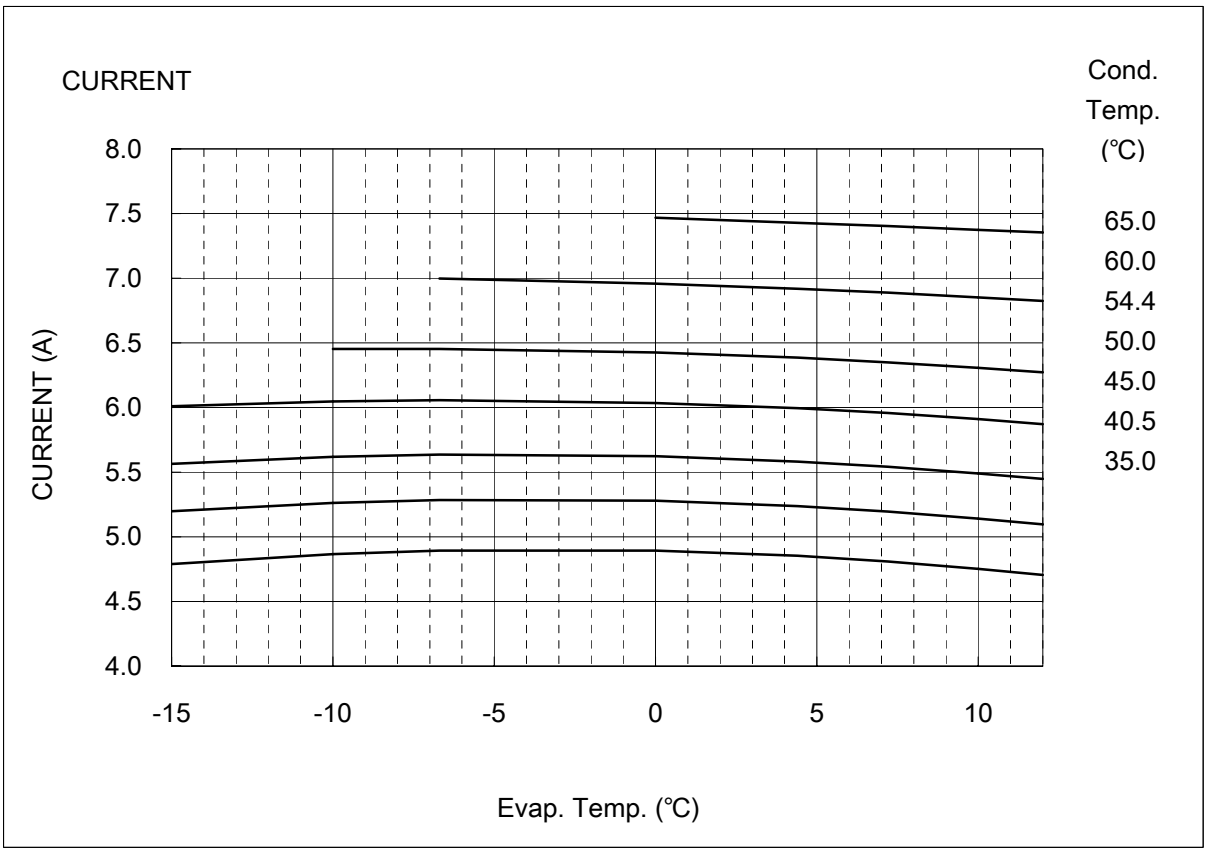
NOTE:

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

Compressor Model(Code) **C-SBN263H8D (809 933 88)**

Power Source **3PH 50Hz 380-415V**





COEFFICIENTS OF PERFORMANCE CURVES

Compressor Model	**C-SBN263H8D (809 933 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*(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

380V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	1.400792E+04	1.865929E+03	3.408355E+00
C2	5.916604E+02	-2.183347E+00	-1.855203E-03
C3	-1.754161E+02	-1.706997E+01	1.920182E-02
C4	1.077584E+01	-5.149626E-01	-1.623980E-03
C5	-7.826246E+00	-1.386956E-01	-1.445418E-04
C6	7.243136E-01	9.057609E-01	6.661843E-04
C7	8.320230E-02	1.619907E-03	1.377019E-06
C8	-9.619682E-02	4.433252E-03	2.147069E-05
C9	3.411648E-02	6.930840E-04	8.554808E-07
C10	4.645309E-09	-9.367544E-09	-6.405632E-12

Note:The polynomial coefficients subject to change without notice.

PERFORMANCE DATA

Compressor Model(Code)	**C-SBN263H8D (809 933 88)**
Power Source	**3PH 60Hz 440-460V**
Suction Gas Superheat(K)	**11.1**
Sub Cooling(K)	**8.3**
Compressor Cooling	**Natural Cooling**
Refrigerant	**R410A**

CAPACITY(W)

Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	6,490	7,860	8,930	11,550	13,680	15,240	16,970	18,330
40.5	6,000	7,280	8,260	10,700	12,670	14,120	15,730	16,990
45.0	5,630	6,820	7,750	10,040	11,900	13,250	14,770	15,950
50.0	5,230	6,350	7,210	9,350	11,080	12,350	13,760	14,870
54.4		5,960	6,770	8,780	10,410	11,600	12,930	13,970
60.0			6,250	8,100	9,610	10,710	11,940	12,900
65.0				7,550	8,950	9,980	11,130	12,030

POWER(W)

Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	2,860	2,860	2,860	2,830	2,800	2,780	2,750	2,730
40.5	3,190	3,190	3,190	3,160	3,130	3,110	3,080	3,050
45.0	3,500	3,510	3,500	3,480	3,440	3,420	3,390	3,360
50.0	3,890	3,900	3,900	3,870	3,840	3,810	3,780	3,750
54.4		4,290	4,290	4,260	4,230	4,200	4,170	4,140
60.0			4,830	4,810	4,780	4,750	4,720	4,690
65.0				5,360	5,320	5,290	5,260	5,230

CURRENT(A) @440V

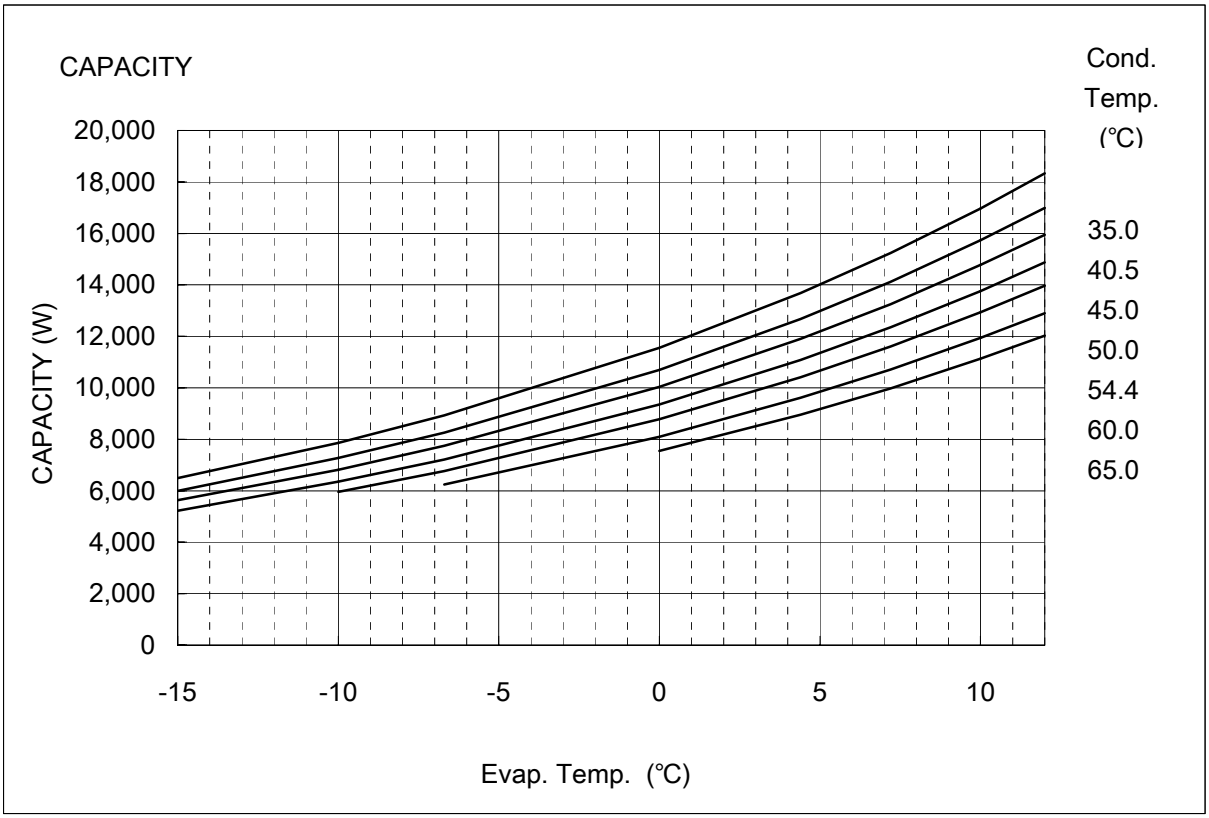
Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	4.5	4.5	4.5	4.5	4.4	4.4	4.4	4.3
40.5	4.9	5.0	5.0	4.9	4.9	4.9	4.8	4.8
45.0	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.2
50.0	5.9	5.9	5.9	5.9	5.9	5.8	5.8	5.8
54.4		6.5	6.5	6.4	6.4	6.4	6.3	6.3
60.0			7.2	7.2	7.1	7.1	7.0	7.0
65.0				7.9	7.8	7.8	7.8	7.7

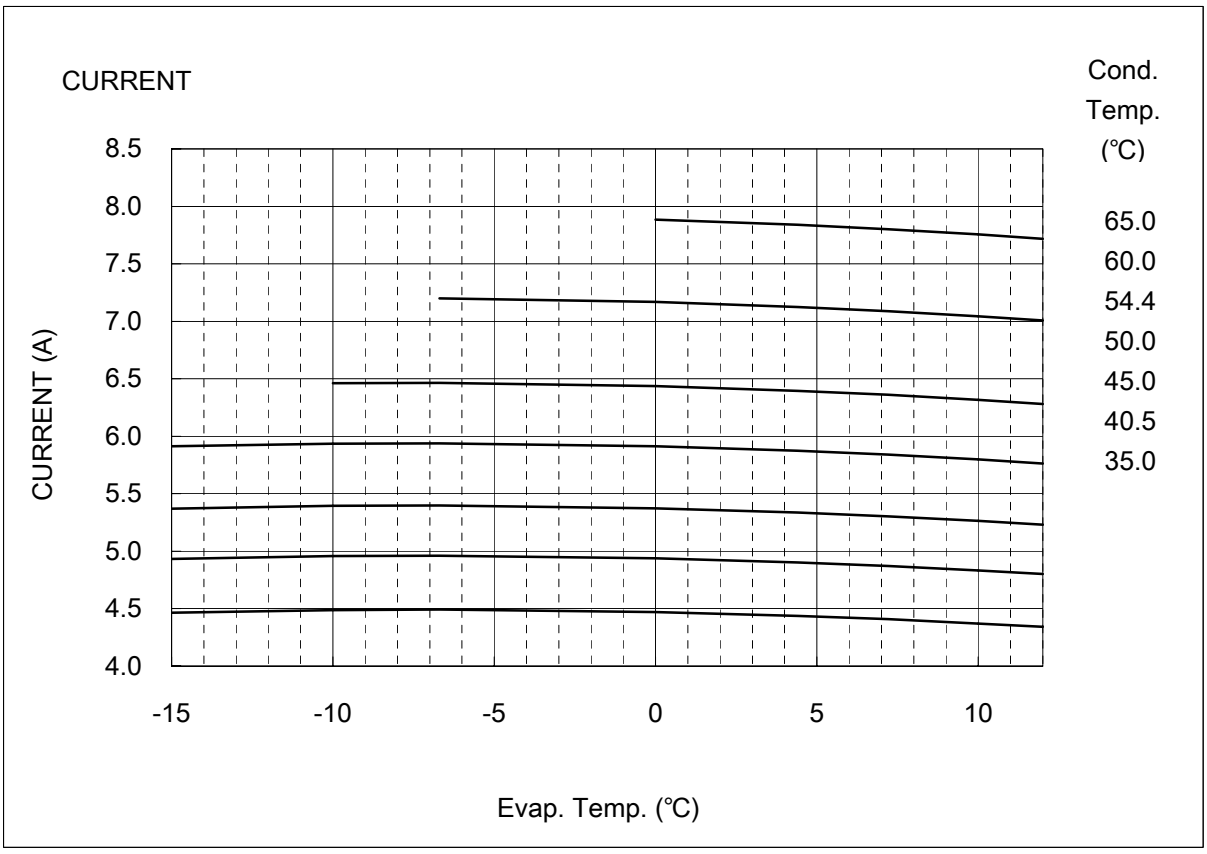
NOTE:

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

Compressor Model(Code) **C-SBN263H8D (809 933 88)**

Power Source **3PH 60Hz 440-460V**





COEFFICIENTS OF PERFORMANCE CURVES

Compressor Model	**C-SBN263H8D (809 933 88)**
Power Source	**3PH 60Hz 440-460V**
Suction Gas Superheat (K)	**11.1**
Sub Cooling (K)	**8.3**
Compressor Cooling	**Natural Cooling**
Refrigerant	**R410A**

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

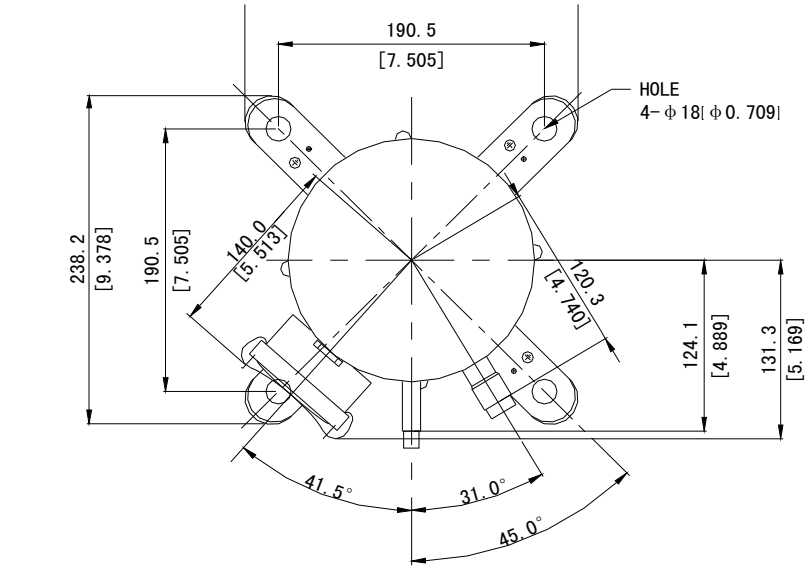
D——CONDENSING TEMP, °C

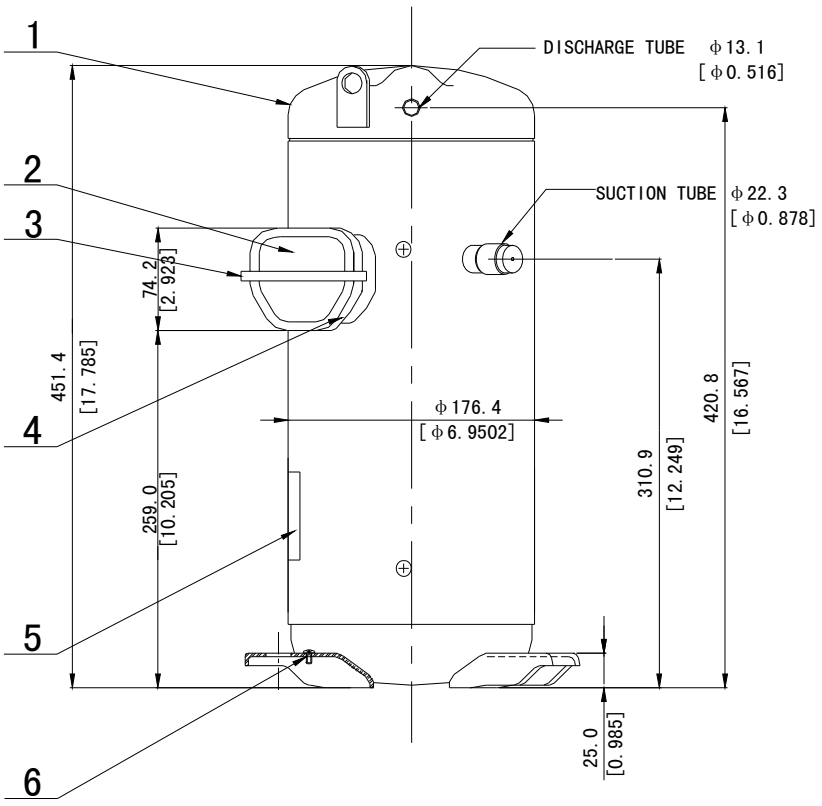
440V-60Hz	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	1.828446E+04	2.114139E+03	3.177713E+00
C2	7.101199E+02	-5.753064E-01	-3.217015E-03
C3	-2.243646E+02	-1.379013E+01	-4.361685E-03
C4	1.230811E+01	-6.489366E-02	-3.345108E-04
C5	-8.827102E+00	-2.166293E-01	-7.794347E-05
C6	9.110665E-01	9.791392E-01	1.181308E-03
C7	9.415658E-02	-1.661738E-04	1.567677E-07
C8	-1.031440E-01	-5.079930E-03	-2.514952E-06
C9	3.689894E-02	2.151977E-03	7.784651E-08
C10	1.451187E-09	-5.556443E-10	-4.012878E-12

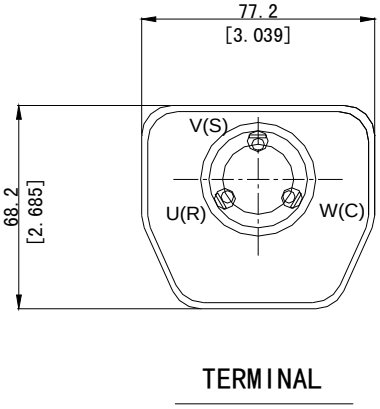
Note:The polynomial coefficients subject to change without notice.

DIMENSIONAL SKETCH

C-SB Series







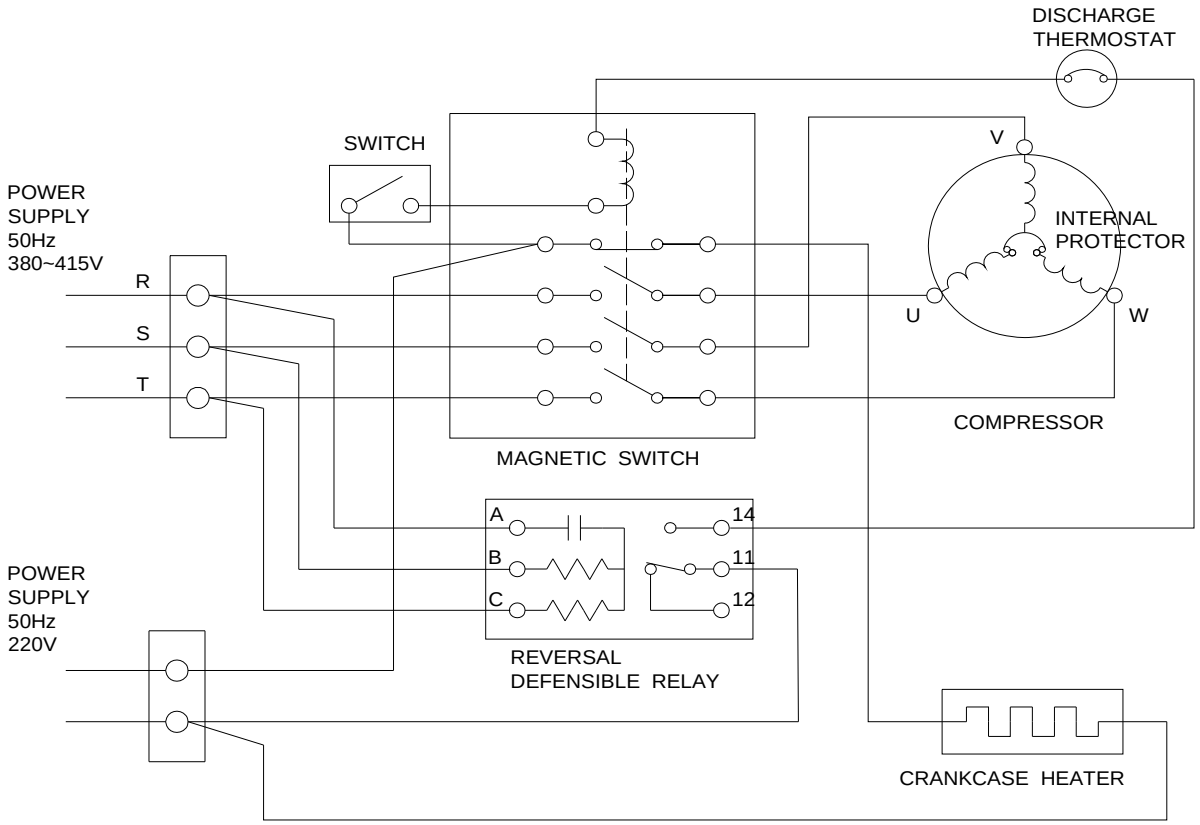
TERMINAL

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