SANYO SCROLL COMPRESSORS

Code : 809 930 88

Model : C-SBN263H8A



DALIAN SANYO COMPRESSOR CO.,LTD.

Rev. 2007-5

SANYO Scroll Compressor

Model	C-SBN263H8A	**Electrical**	380-415 Volts 3 Phase 50Hz
Refrigerant	R407C		440-460 Volts 3 Phase 60Hz

Nominal Performance at ARI

Power Source		50Hz-380V	60Hz-440V
Capacity	(W)	9600	11800
Power	(W)	3350	4100
Current	(A)	6.2	6.4
COP	(W/W)	2.87	2.88
Mass Flow	(kg/h)	230	284

Rating Conditions (MID Point)

Condensing Temperature(℃)	54.4
Evaporating Temperature(℃)	7.2
Return Gas temperature(℃)	18.3
Liquid Temperature(℃)	43.8
Ambient Temperature(℃)	35

Motor

	50Hz	60Hz
Voltage Range(V)	342-456	396-506
RLA (A)	7.3	
MCC (A)	10.2	
LRA (A)	48	51
RPM (min^{-1})	2900	3450

Compressor

Maximum Discharge Temp(℃)	130
Displacement (cm^3/rev)	55.7
Weight (with oil kg)	36.5

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-SBN263H8A (809 930 88)**
Power Source	**3PH 50Hz 380-415V**
Suction Gas Superheat(K)	**9**
Sub Cooling(K)	**8.3**
Compressor Cooling	**Natural Cooling**
Refrigerant	**R407C**

CAPACITY(W)

Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	5,260	6,420	7,330	9,590	11,440	12,800	14,320	15,520
40.5	4,790	5,870	6,710	8,810	10,540	11,810	13,230	14,360
45.0	4,430	5,440	6,240	8,220	9,850	11,050	12,400	13,460
50.0	4,060	5,010	5,740	7,600	9,120	10,250	11,520	12,520
54.4		4,650	5,340	7,090	8,530	9,600	10,800	11,750
60.0			4,880	6,490	7,830	8,830	9,950	10,840
65.0				6,010	7,270	8,200	9,260	10,100

POWER(W)

Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	2,160	2,170	2,170	2,160	2,150	2,140	2,120	2,110
40.5	2,440	2,440	2,440	2,440	2,430	2,410	2,400	2,390
45.0	2,700	2,710	2,710	2,700	2,690	2,680	2,670	2,660
50.0	3,030	3,040	3,040	3,040	3,030	3,020	3,010	3,000
54.4		3,360	3,370	3,370	3,360	3,350	3,340	3,330
60.0			3,830	3,840	3,830	3,820	3,810	3,800
65.0				4,300	4,290	4,290	4,280	4,270

CURRENT(A) @380V

Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3
40.5	4.7	4.7	4.8	4.8	4.8	4.8	4.7	4.7
45.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
50.0	5.8	5.8	5.8	5.7	5.7	5.7	5.7	5.7
54.4		6.4	6.3	6.3	6.2	6.2	6.2	6.2
60.0			7.1	7.0	6.9	6.9	6.9	6.9
65.0				7.7	7.6	7.6	7.6	7.6

NOTE:

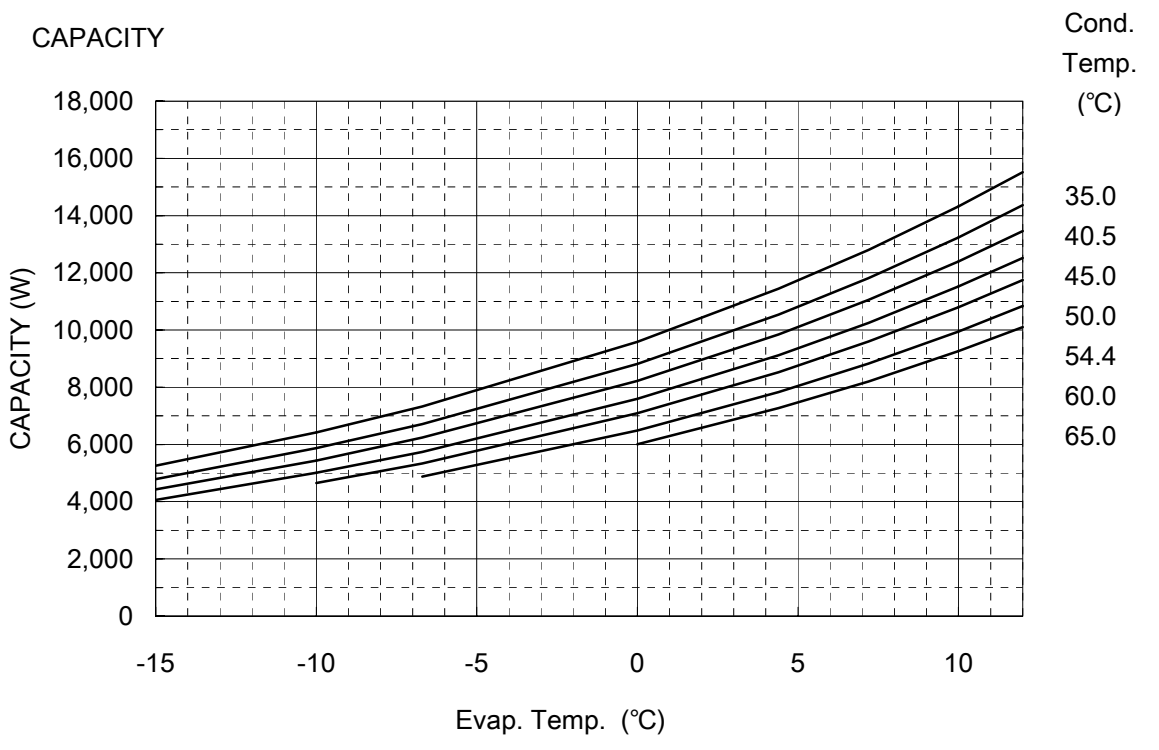
*** The performance values are based on MID point method.**

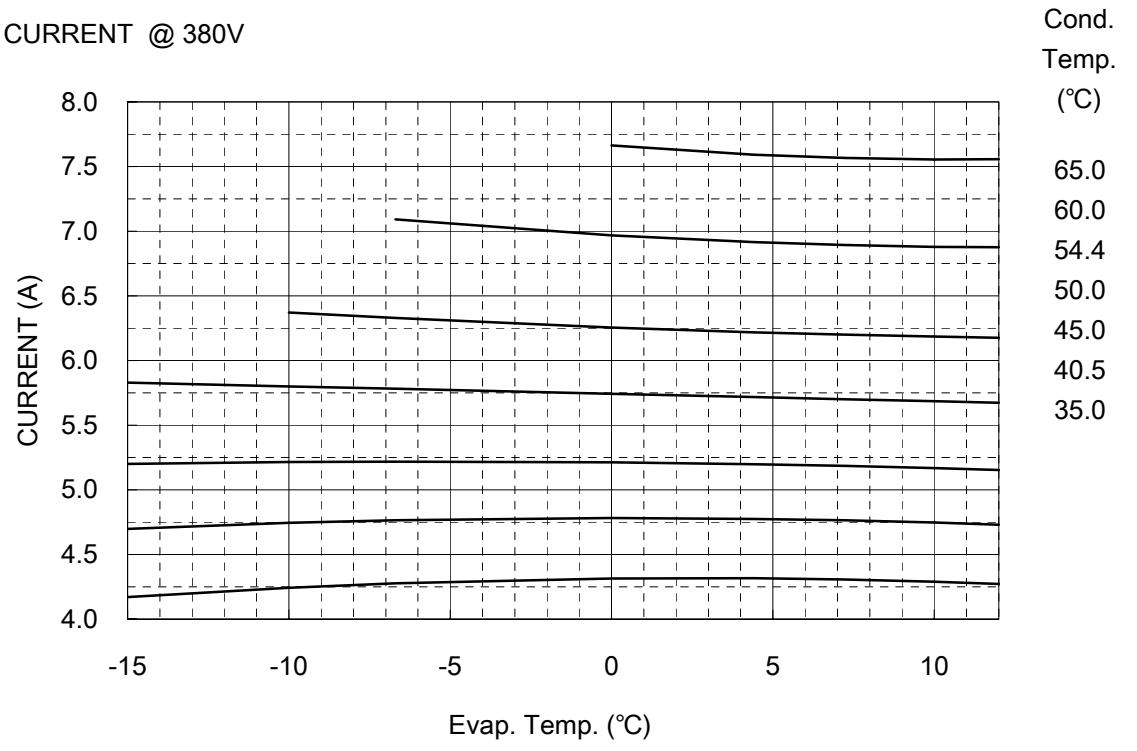
*** The performance values subject to change without notice.**

Dalian SANYO Compressor Co.,Ltd.

Compressor Model(Code) **C-SBN263H8A (809 930 88)**

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





COEFFICIENTS OF PERFORMANCE CURVES

Compressor Model	**C-SBN263H8A (809 930 88)**
Power Source	**3PH 50Hz 380-415V**
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

380V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	1.584856E+04	1.591341E+03	3.013003E+00
C2	5.966492E+02	-1.417228E+00	7.185024E-04
C3	-2.110736E+02	-1.335040E+01	-2.619542E-03
C4	1.051167E+01	-1.355647E-01	-1.999940E-03
C5	-6.994694E+00	-6.796510E-02	4.221289E-04
C6	9.185084E-01	8.458923E-01	1.142654E-03
C7	9.328952E-02	-1.479324E-03	3.080586E-06
C8	-7.498673E-02	-4.564635E-04	4.116685E-05
C9	2.775751E-02	1.362023E-03	-1.112836E-05
C10	6.936612E-09	-1.539886E-09	-1.357605E-11

Note:The polynomial coefficients subject to change without notice.

PERFORMANCE DATA

Compressor Model(Code)	**C-SBN263H8A (809 930 88)**
Power Source	**3PH 60Hz 440-460V**
Suction Gas Superheat(K)	**9**
Sub Cooling(K)	**8.3**
Compressor Cooling	**Natural Cooling**
Refrigerant	**R407C**

CAPACITY(W)

Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	6,480	7,880	8,970	11,650	13,840	15,440	17,230	18,630
40.5	5,920	7,230	8,240	10,760	12,810	14,320	16,010	17,330
45.0	5,500	6,730	7,680	10,070	12,020	13,460	15,060	16,330
50.0	5,060	6,210	7,110	9,350	11,190	12,550	14,070	15,270
54.4		5,790	6,640	8,760	10,510	11,800	13,250	14,400
60.0			6,080	8,060	9,700	10,910	12,280	13,360
65.0				7,490	9,040	10,190	11,480	12,500

POWER(W)

Condensing Temperature(℃)	Evaporating Temperature(℃)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	2,720	2,720	2,720	2,710	2,700	2,690	2,690	2,680
40.5	3,020	3,030	3,030	3,030	3,030	3,020	3,010	3,010
45.0	3,290	3,320	3,330	3,340	3,340	3,330	3,320	3,320
50.0	3,630	3,670	3,700	3,720	3,720	3,720	3,710	3,700
54.4		4,020	4,050	4,090	4,100	4,100	4,090	4,080
60.0			4,560	4,620	4,640	4,630	4,630	4,610
65.0				5,140	5,160	5,160	5,150	5,140

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	4.5	4.5	4.5	4.5
40.5	4.9	4.9	5.0	5.0	5.0	4.9	4.9	4.9
45.0	5.3	5.3	5.4	5.4	5.4	5.4	5.4	5.4
50.0	5.7	5.8	5.8	5.9	5.9	5.9	5.9	5.9
54.4		6.3	6.3	6.4	6.4	6.4	6.4	6.4
60.0			7.0	7.1	7.1	7.1	7.1	7.1
65.0				7.7	7.8	7.8	7.8	7.8

NOTE:

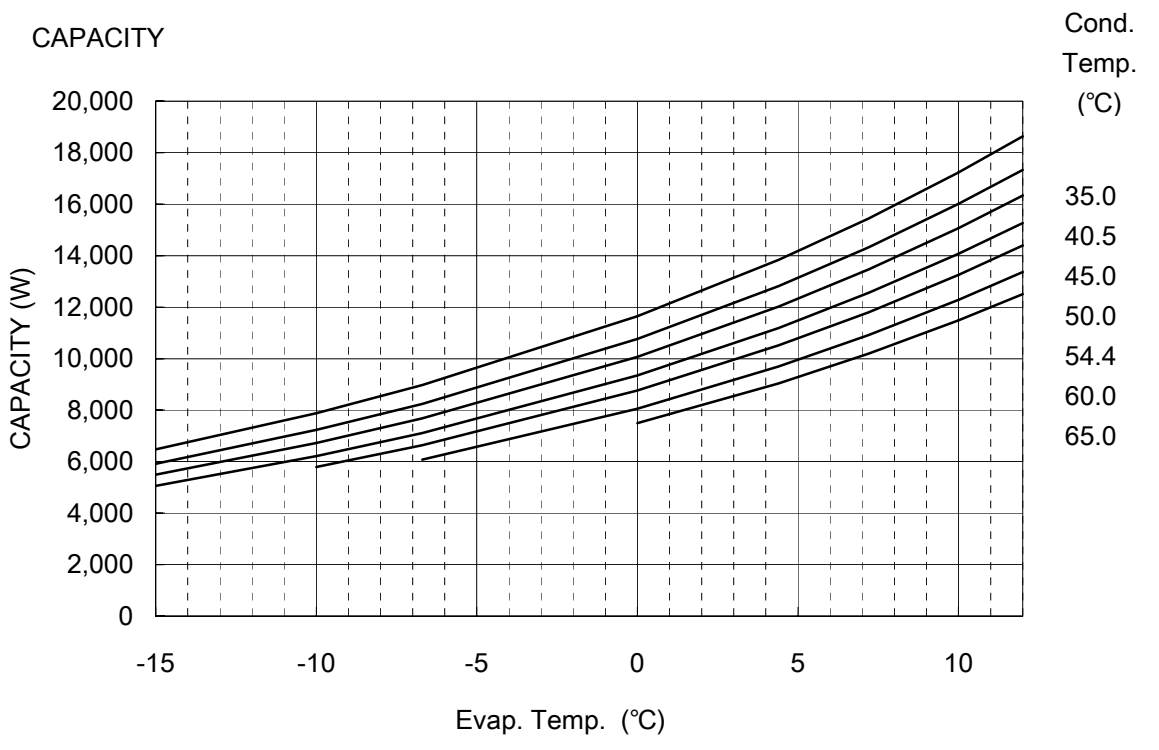
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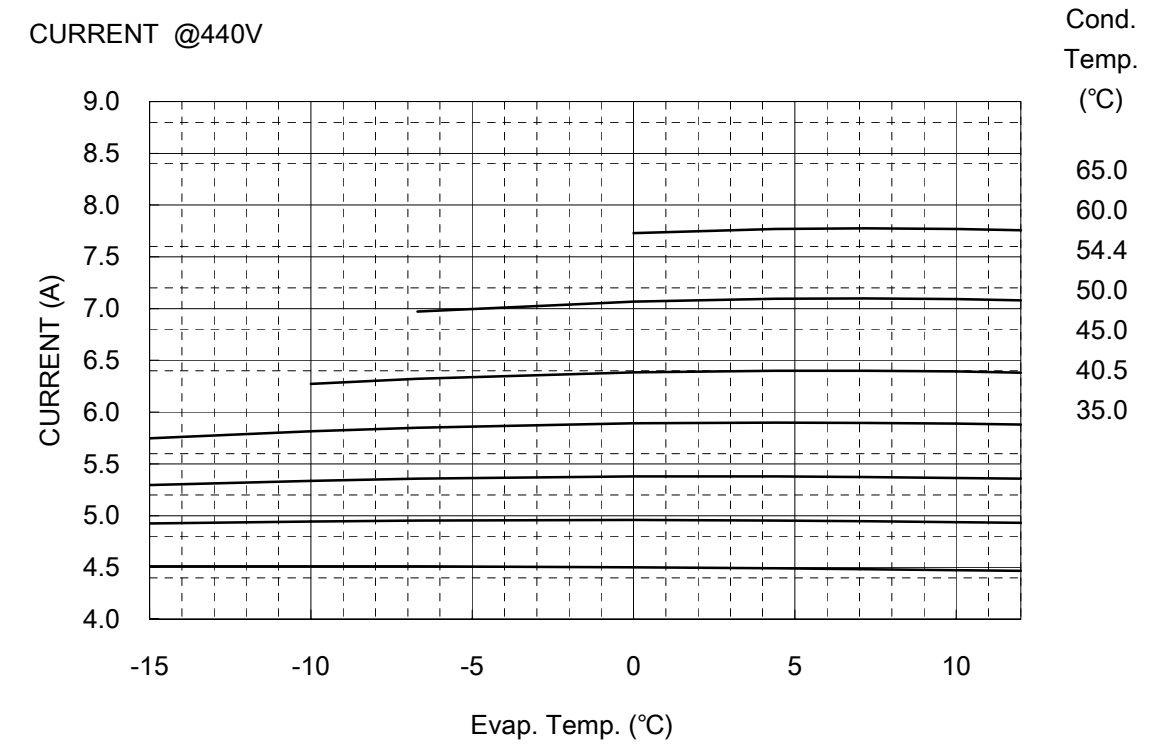
*** The performance values subject to change without notice.**

Dalian SANYO Compressor Co.,Ltd.

Compressor Model(Code) **C-SBN263H8A (809 930 88)**

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





COEFFICIENTS OF PERFORMANCE CURVES

Compressor Model	**C-SBN263H8A (809 930 88)**
Power Source	**3PH 60Hz 440-460V**
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

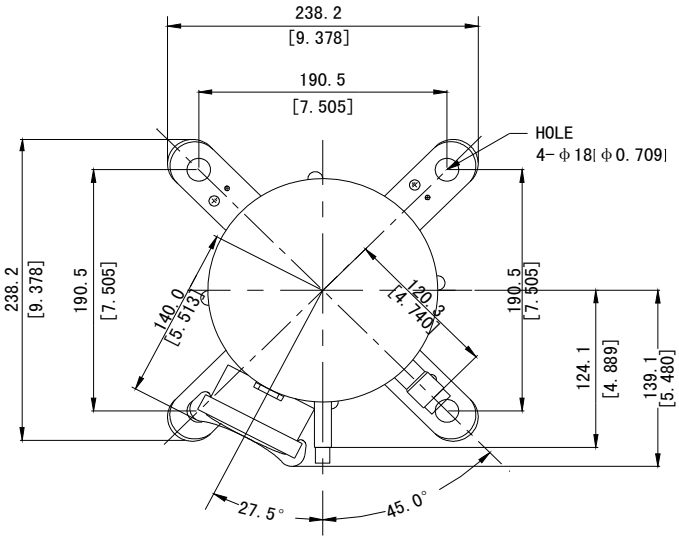
D——CONDENSING TEMP, °C

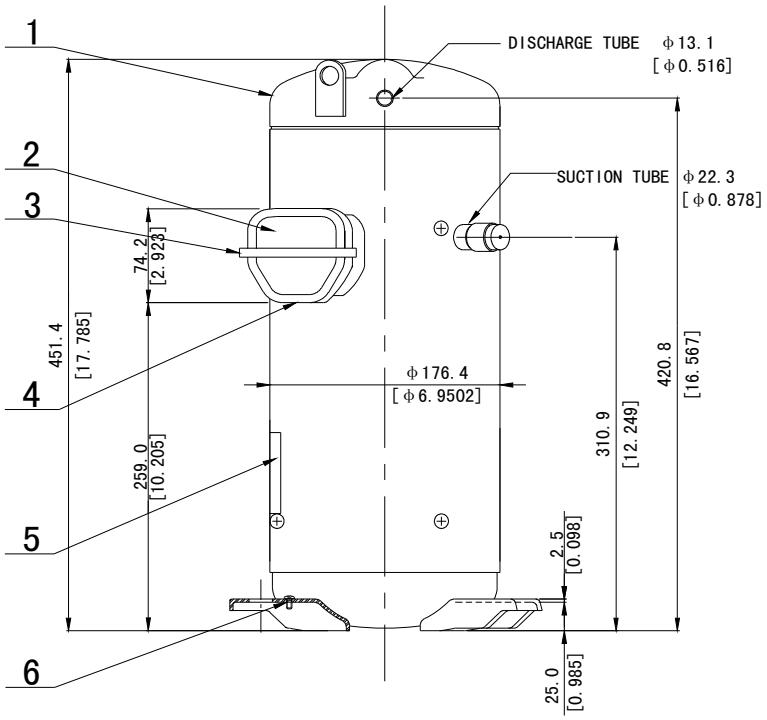
440V-60Hz	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	1.876717E+04	1.883485E+03	2.948552E+00
C2	6.753423E+02	-2.987259E-01	-2.086318E-03
C3	-2.383428E+02	-7.392815E+00	1.015761E-02
C4	1.163682E+01	6.334747E-01	7.854054E-04
C5	-7.131043E+00	-2.249525E-01	-2.326093E-04
C6	9.978926E-01	8.832812E-01	9.744790E-04
C7	1.073469E-01	-4.390099E-04	-1.167962E-06
C8	-7.256734E-02	-1.872041E-02	-2.394198E-05
C9	2.535770E-02	5.348912E-03	6.983738E-06
C10	-1.390836E-09	1.025294E-08	7.528350E-12

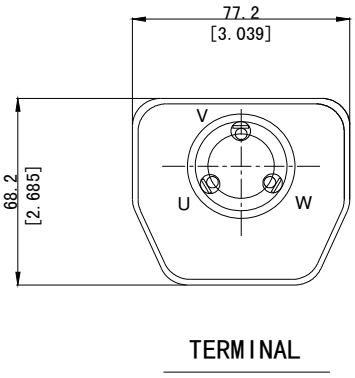
Note:The polynomial coefficients subject to change without notice.

DIMENSIONAL SKETCH

C-SB Series (3.5HP)







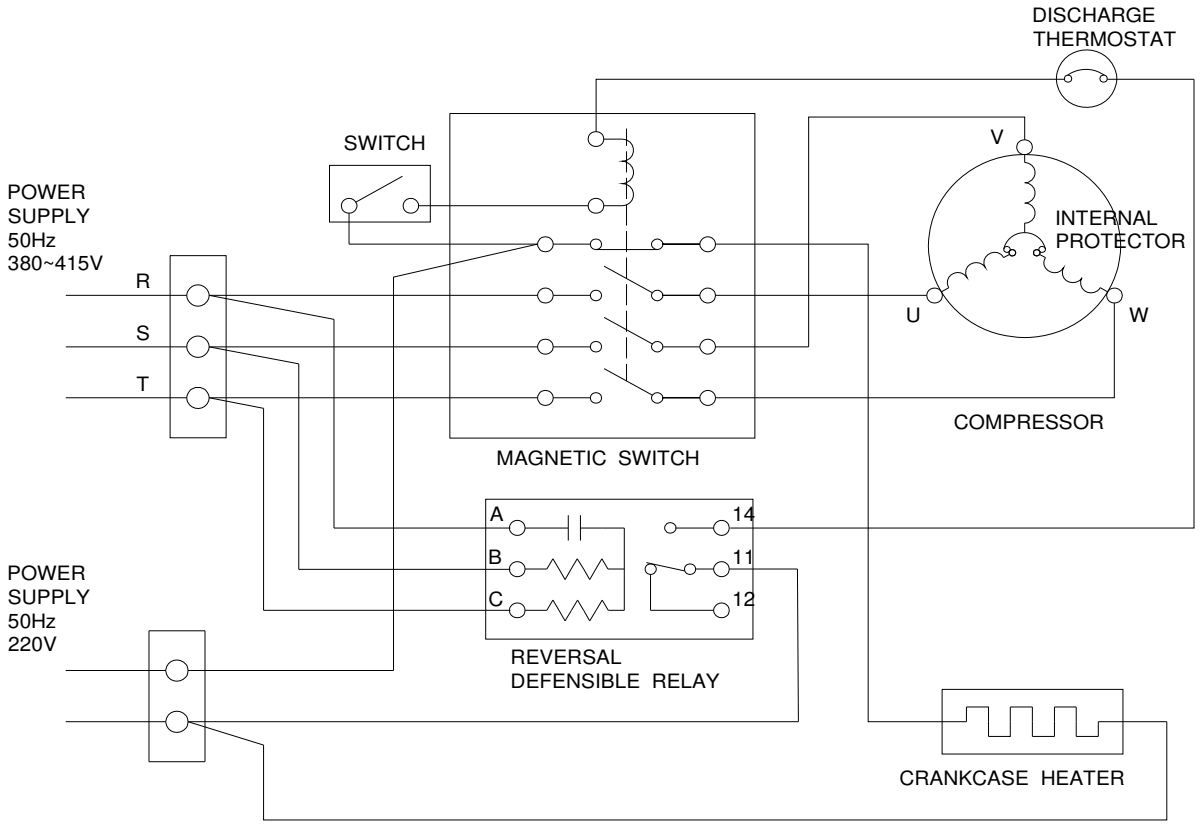
TERMINAL

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

