

**SANYO**

# SANYO SCROLL COMPRESSORS

**Code : 809 942 88**

**Model : C-SBN353H8A**



DALIAN SANYO COMPRESSOR CO.,LTD.

## **SANYO Scroll Compressor**

Made by: Dalian **SANYO** Compressor Co., Ltd.

**Model:** C-SBN353H8A      **Electrical:** 380-415 Volts 3 Phase 50Hz      **R134a**

### **Nominal Performance at ARI and 50Hz-380V**

Capacity	(W)	9300
Power	(W)	2940
Current	(A)	5.6
COP	(W/W)	3.16
Mass Flow	(kg/h)	

### **Rating Conditions at ARI**

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

### **Motor**

	<b>50Hz</b>
Operating Voltage Range(V)	342-456
Locked Rotor Amps(A)	55
Maximum Continuous Current(A)	-
RPM(min <sup>-1</sup> )	2900

### **Compressor**

Maximum Discharge Temp(°C)	130
Displacement (cm <sup>3</sup> /rev)	66.8
Weight (with oil kg)	38
CCC File Number	2002020704000230

### **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



**PERFORMANCE DATA (PRELIMINARY DATA)**

Compressor Model(Code)	<b>C-SBN353H8A (809 942 88)</b>
Power Source	<b>3PH 50Hz 380-415V</b>
Suction Gas Superheat(K)	<b>11.1</b>
Sub Cooling(K)	<b>8.3</b>
Compressor Cooling	<b>Natural Cooling</b>
Refrigerant	<b>R134a</b>

**CAPACITY(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
40.5	4,730	5,730	6,510	8,410	9,960	11,090	12,340	13,330
45.0	4,430	5,380	6,110	7,920	9,400	10,480	11,680	12,620
50.0	4,110	5,010	5,700	7,410	8,810	9,830	10,980	11,870
54.4	3,850	4,700	5,360	6,990	8,320	9,300	10,390	11,250
60.0		4,340	4,950	6,480	7,740	8,660	9,700	10,510
65.0			4,620	6,070	7,260	8,140	9,120	9,890
70.0				5,680	6,810	7,650	8,580	9,320

**POWER(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
40.5	2,140	2,180	2,190	2,200	2,200	2,190	2,180	2,160
45.0	2,360	2,390	2,400	2,420	2,410	2,410	2,390	2,380
50.0	2,620	2,650	2,670	2,680	2,680	2,680	2,670	2,660
54.4	2,880	2,910	2,920	2,940	2,940	2,940	2,940	2,930
60.0		3,270	3,280	3,300	3,310	3,310	3,310	3,310
65.0			3,630	3,660	3,670	3,680	3,680	3,690
70.0				4,040	4,060	4,070	4,090	4,100

**CURRENT(A)**

@380V

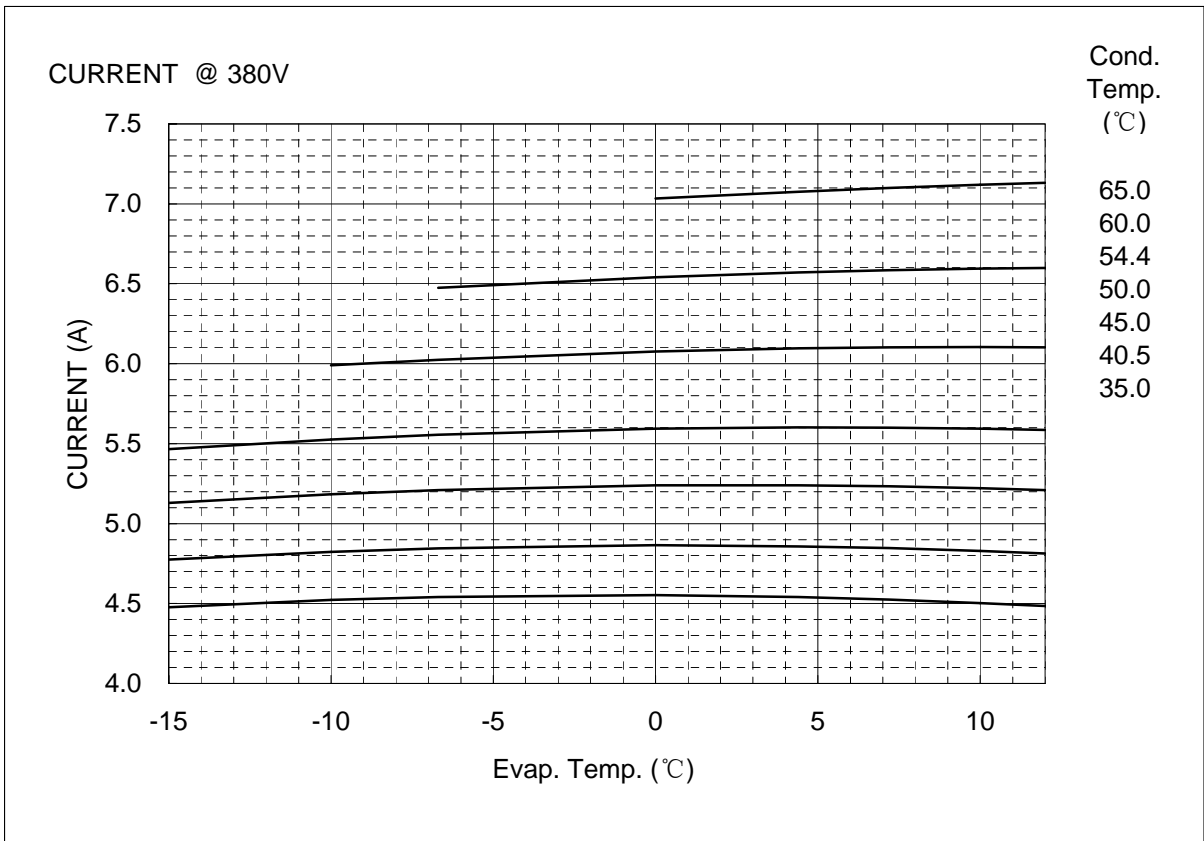
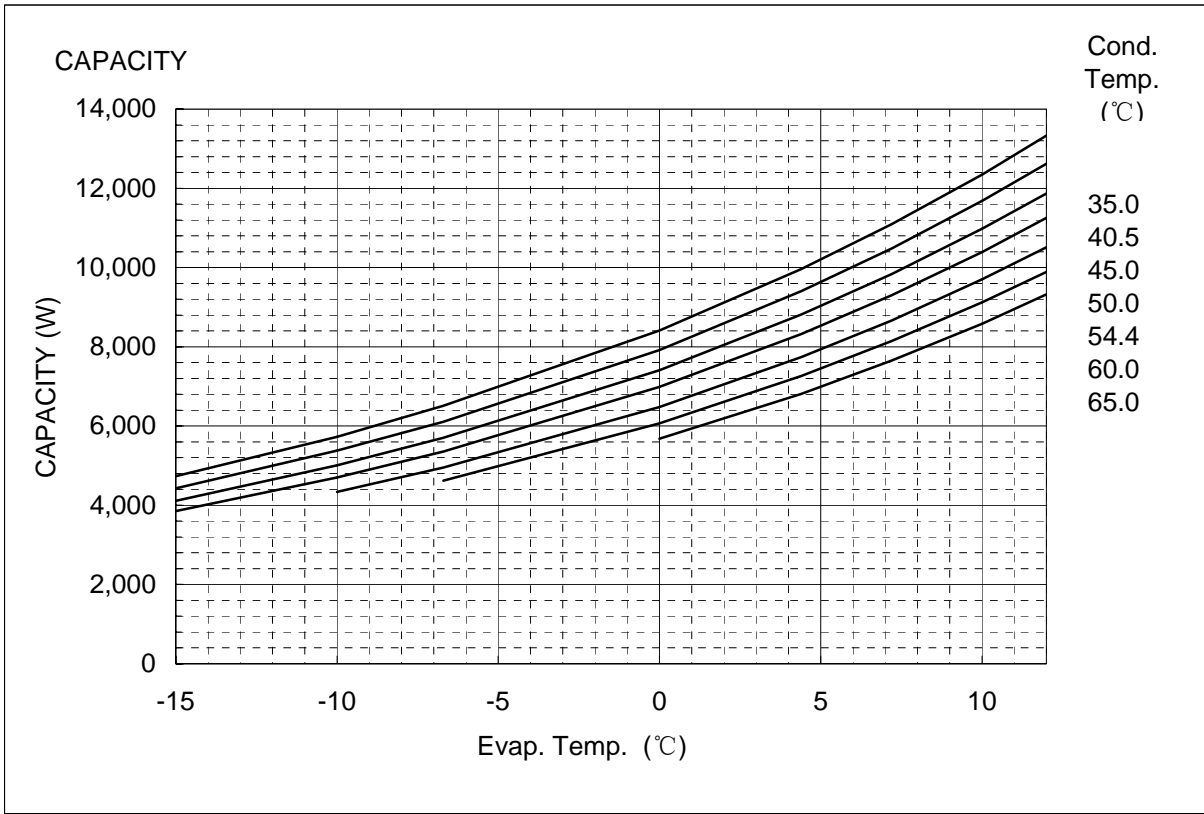
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
40.5	4.5	4.5	4.5	4.6	4.5	4.5	4.5	4.5
45.0	4.8	4.8	4.8	4.9	4.9	4.8	4.8	4.8
50.0	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2
54.4	5.5	5.5	5.6	5.6	5.6	5.6	5.6	5.6
60.0		6.0	6.0	6.1	6.1	6.1	6.1	6.1
65.0			6.5	6.5	6.6	6.6	6.6	6.6
70.0				7.0	7.1	7.1	7.1	7.1

**NOTE:**

\* The performance values subject to change without notice.

Compressor Model(Code)  
Power Source

**C-SBN353H8A (809 942 88)**  
**3PH 50Hz 380-415V**



## COEFFICIENTS OF PERFORMANCE CURVES



Compressor Model           **C-SBN353H8A (809 942 88)**  
 Power Source               **3PH 50Hz 380-415V**  
 Suction Gas Superheat (K) **11.1**  
 Sub Cooling (K)           **8.3**  
 Compressor Cooling       **Natural Cooling**  
 Refrigerant                 **R134a**

$$X=C1+C2*(S)+C3*D+C4*(S^2)+C5*(S*D)+C6*(D^2)+C7*(S^3)+C8*(D*S^2)+C9*(S*D^2) +C10*(D^3)$$

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

S—EVAPORATING TEMP, °C

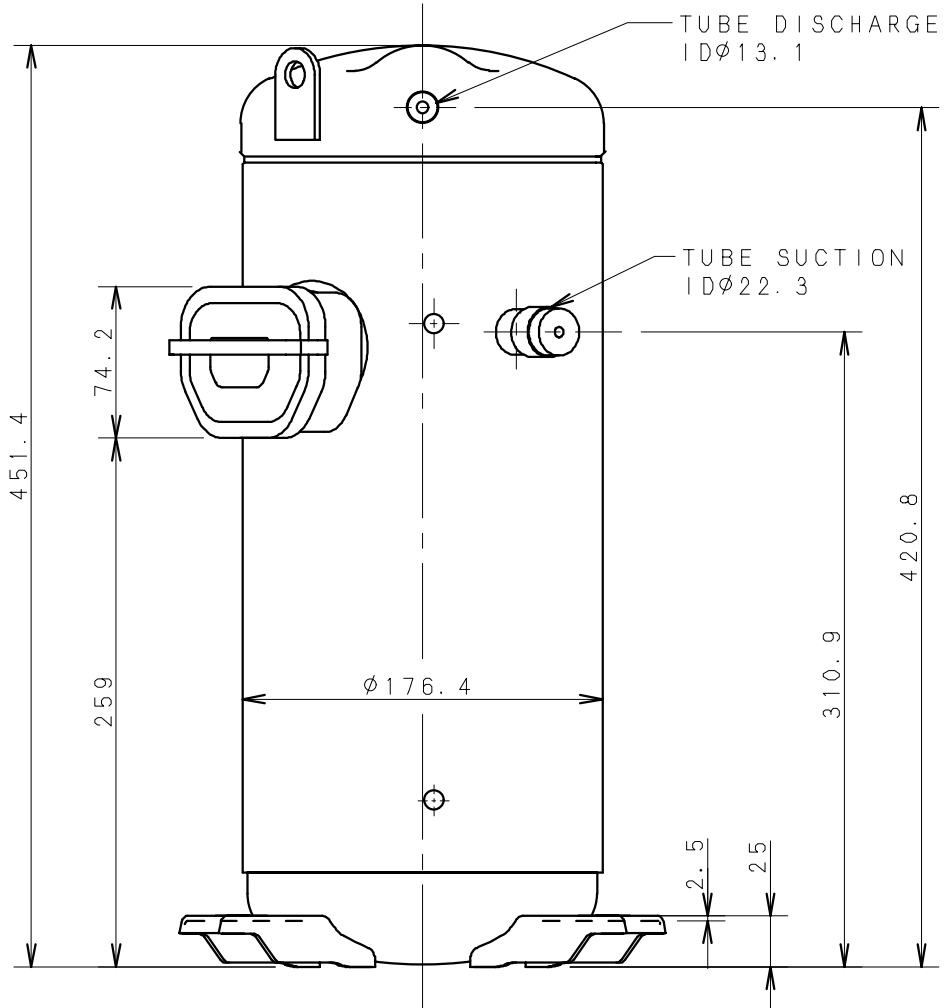
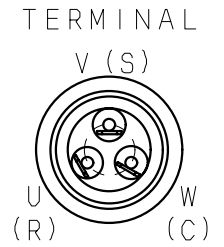
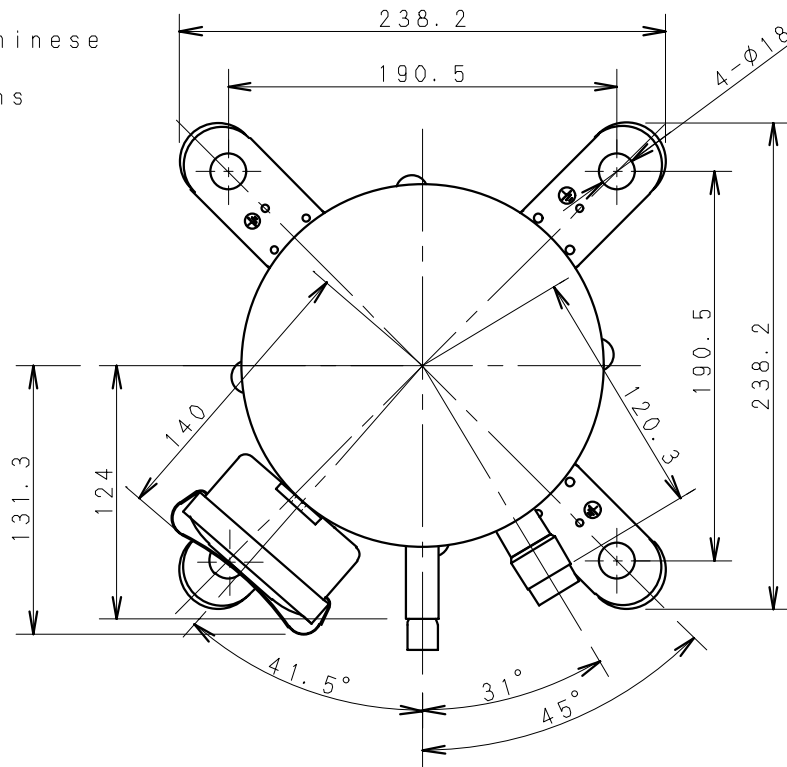
D—CONDENSING TEMP, °C

<b>380V-50Hz</b>	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	1.396611E+04	1.407462E+03	2.847108E+00
C2	4.991422E+02	4.332001E+00	-1.719867E-03
C3	-1.631284E+02	-4.923829E+00	1.783211E-02
C4	8.290057E+00	-6.831761E-01	-6.199513E-04
C5	-5.100647E+00	-2.648382E-01	-2.035574E-04
C6	6.398603E-01	6.079158E-01	5.998618E-04
C7	7.375208E-02	-1.277762E-04	3.646798E-07
C8	-4.883870E-02	9.550055E-03	5.311261E-06
C9	1.875147E-02	3.866742E-03	5.467529E-06
C10	-2.841918E-09	-4.446843E-10	-9.338447E-13

Note:The polynomial coefficients subject to change without notice.

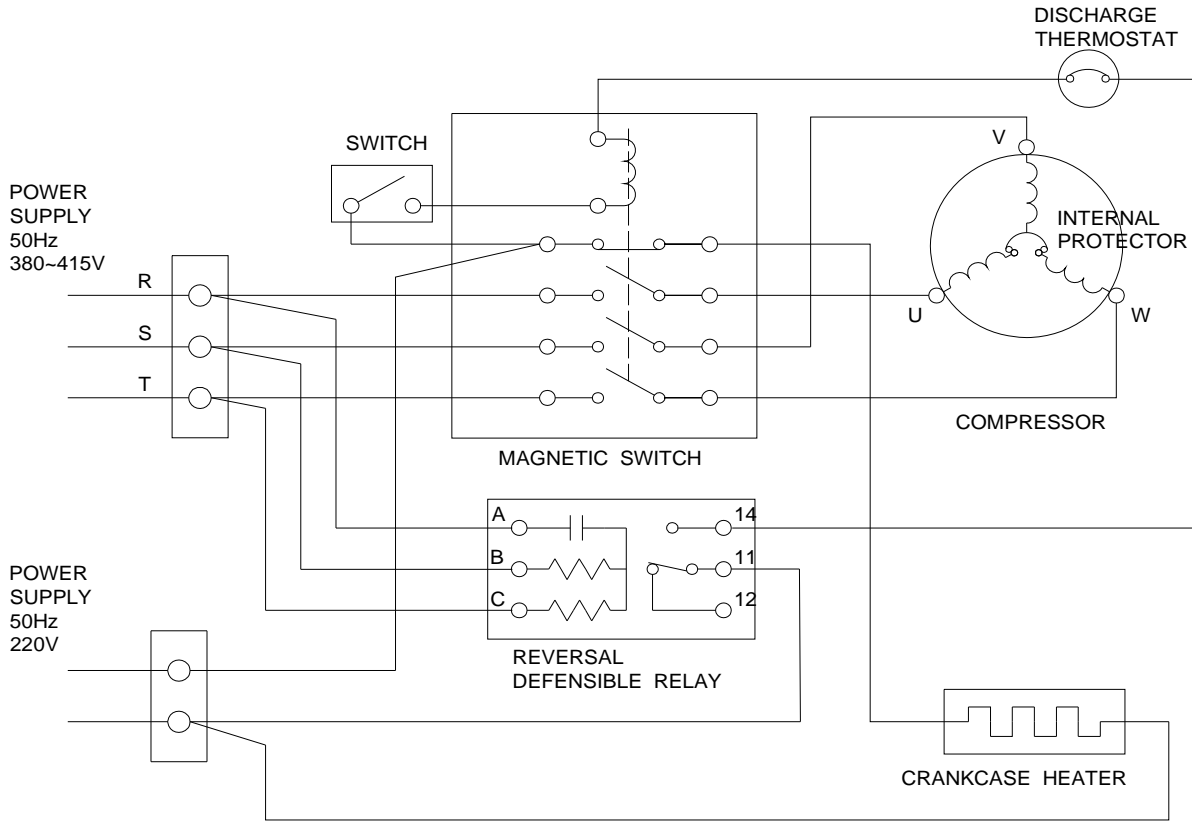
# DIMENSIONAL SKETCH

C-SB Series  
 2.6-4.5kW  
 European & Chinese  
 power supply  
 specifications  
 models



# WIRING & MOUNTING SKETCH

## WIRING DIAGRAM C-SB Series 3phase B8



## MOUNTING SKETCH

