

**SANYO**

# SANYO SCROLL COMPRESSORS

**Code : 809 191 88**

**Model : C-SCN673H8H**



DALIAN SANYO COMPRESSOR CO.,LTD.

Rev.2009-12

## **SANYO Scroll Compressor**



**Model** C-SCN673H8H

**Electrical** 380-415 Volts 3 Phase 50Hz

**Refrigerant** R134a

### **Nominal Performance at ARI**

Power Source 50Hz-380V

Capacity (W) 18000

Power (W) 5550

Current (A) 10.1

COP (W/W) 3.24

Mass Flow (kg/h) -

### **Rating Conditions**

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**

**50Hz**

Voltage Range(V) 342-456

RLA (A) -

MCC (A) -

LRA (A) 80

RPM (min<sup>-1</sup>) 2900

### **Compressor**

Maximum Discharge Temp(°C) 135

Displacement (cm<sup>3</sup>/rev) 148.8

Weight (with oil kg) 67

### **Oil**

Oil Type FV68S

Initial Charge (ml) 2800

Re-charge (ml) 2600

### **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)	<b>C-SCN673H8H (809 191 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	8,750	10,700	12,210	15,990	19,080	21,360	23,900	25,910
45.0	8,290	10,140	11,570	15,140	18,060	20,210	22,620	24,510
50.0	7,810	9,550	10,890	14,250	16,990	19,000	21,260	23,030
54.4	7,410	9,050	10,330	13,500	16,100	18,000	20,130	21,800
60.0		8,470	9,660	12,610	15,030	16,800	18,780	20,340
65.0			9,090	11,870	14,140	15,800	17,660	19,120
70.0				11,180	13,310	14,870	16,620	17,990

**POWER(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
40.5	4,020	4,070	4,110	4,190	4,240	4,270	4,310	4,330
45.0	4,350	4,420	4,460	4,550	4,610	4,650	4,680	4,710
50.0	4,770	4,840	4,890	4,990	5,060	5,110	5,150	5,180
54.4	5,170	5,250	5,310	5,420	5,500	5,550	5,600	5,640
60.0		5,820	5,880	6,020	6,110	6,170	6,230	6,270
65.0			6,450	6,600	6,700	6,770	6,840	6,880
70.0				7,220	7,340	7,420	7,490	7,550

**CURRENT(A)** @380V

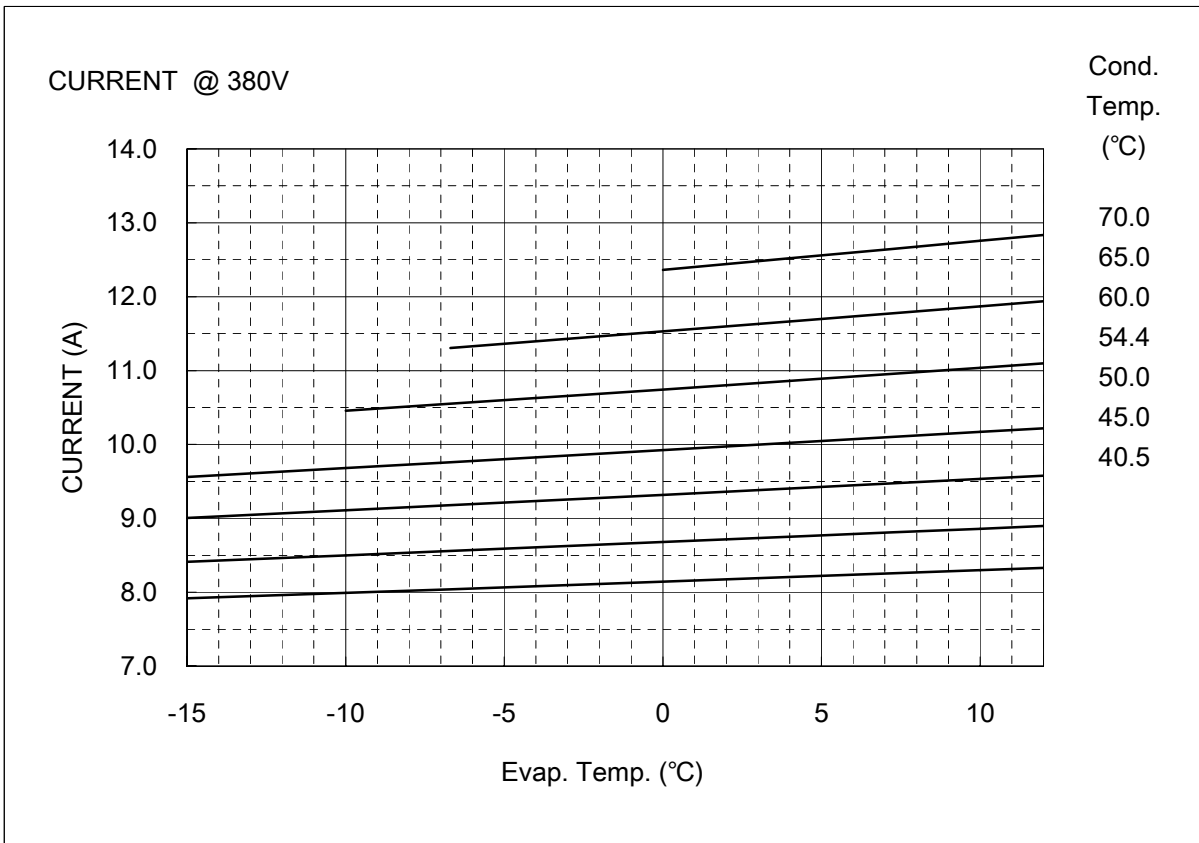
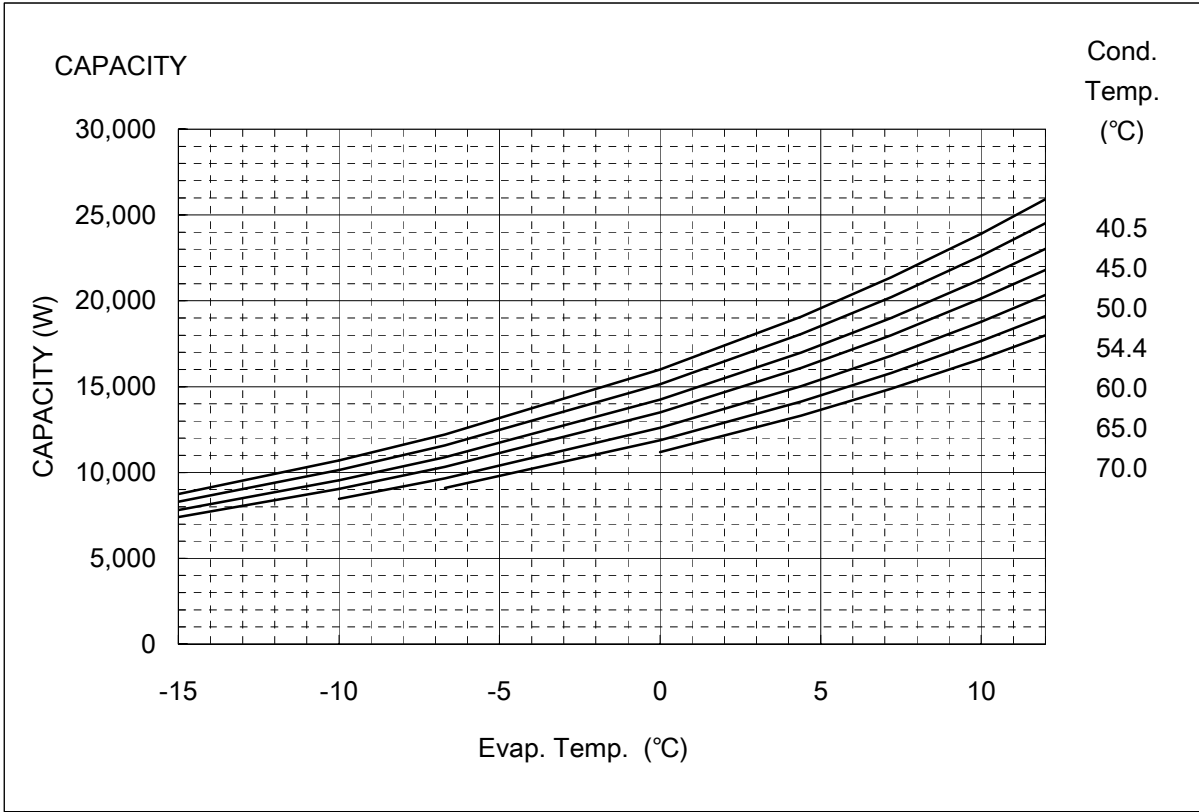
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
40.5	7.9	8.0	8.0	8.1	8.2	8.3	8.3	8.3
45.0	8.4	8.5	8.6	8.7	8.8	8.8	8.9	8.9
50.0	9.0	9.1	9.2	9.3	9.4	9.5	9.5	9.6
54.4	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2
60.0		10.5	10.6	10.7	10.9	11.0	11.0	11.1
65.0			11.3	11.5	11.7	11.8	11.9	11.9
70.0				12.4	12.5	12.6	12.8	12.8

**NOTE:**

\* The performance values subject to change without notice.

Compressor Model(Code)  
Power Source

C-SCN673H8H (809 191 88)  
3PH 50Hz 380-415V



## COEFFICIENTS OF PERFORMANCE CURVES



Compressor Model           **C-SCN673H8H (809 191 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

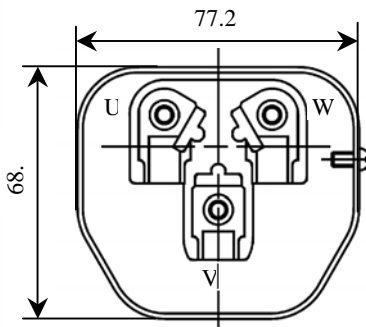
<b>380V-50Hz</b>	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	2.551420E+04	2.598129E+03	5.106030E+00
C2	1.076168E+03	3.957861E+00	6.653326E-03
C3	-2.775196E+02	2.454638E+00	3.565348E-02
C4	1.951991E+01	-1.055136E-01	-4.137167E-05
C5	-1.277893E+01	2.271250E-02	-1.143181E-04
C6	1.040279E+00	9.090654E-01	9.719174E-04
C7	1.512162E-01	-1.295098E-03	8.060717E-08
C8	-1.561636E-01	2.661643E-03	1.343911E-06
C9	5.317847E-02	4.215848E-03	8.133658E-06
C10	2.941203E-09	-4.277290E-09	1.998223E-12

Note:The polynomial coefficients subject to change without notice.

# DIMENSIONAL SKETCH

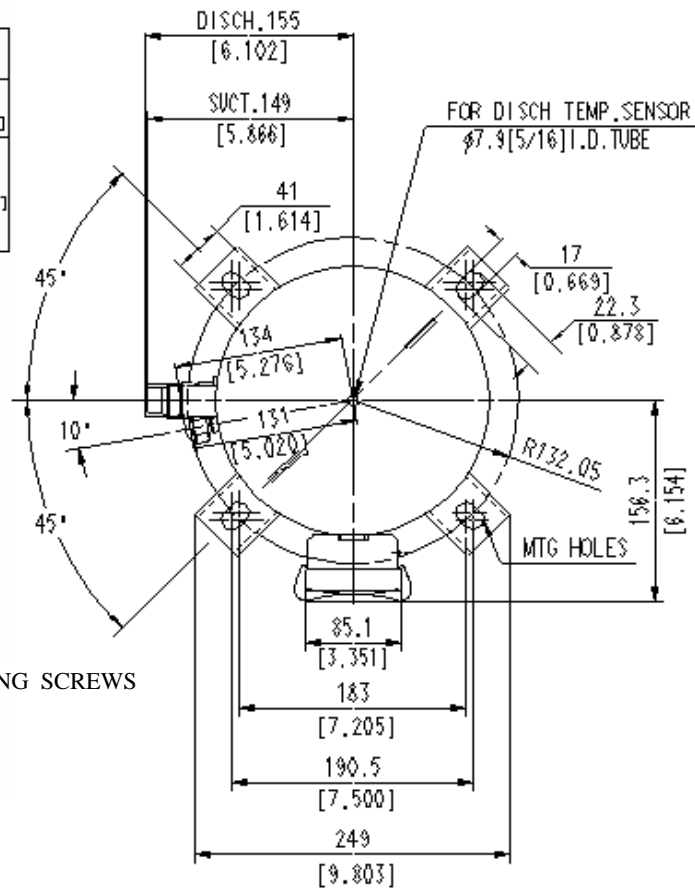
## C-SC Series

COMPRESSOR CODE	A	B	C	D	E
80919*8	538 [21.181]	284 [11.181]	486 [19.134]	7.9 [0.311]	289 [11.378]
80920*8*				9 [0.354]	
80910*8*	553 [21.772]	299 [11.772]	501 [19.724]	8.7 [0.342]	304 [11.969]
80922*8*					
80912*8*					



**TERMIN**

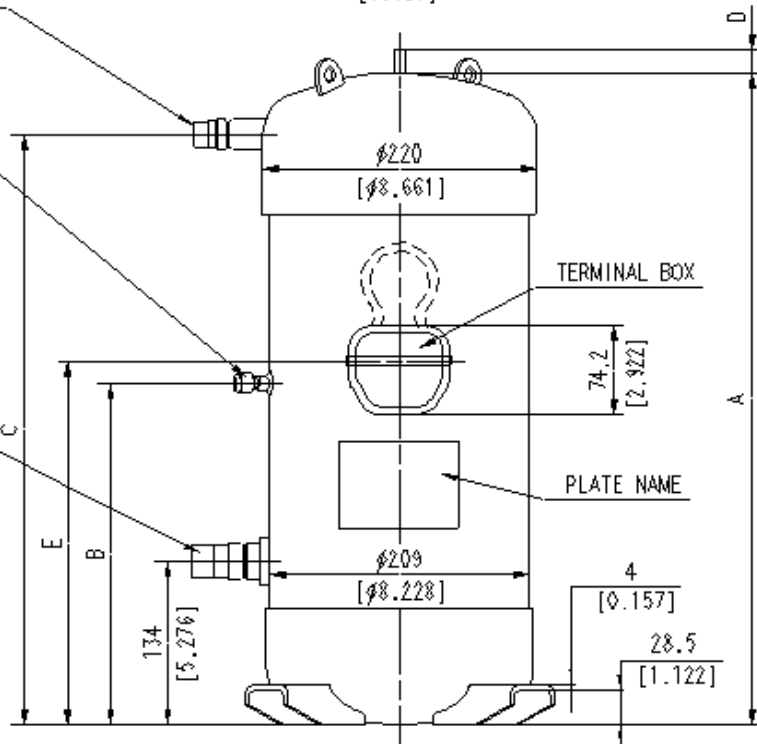
TAPPING SCREWS



DISCHARGE ACCEPT  
 $\phi 19.05 [3/4]$  O.D. TUBE

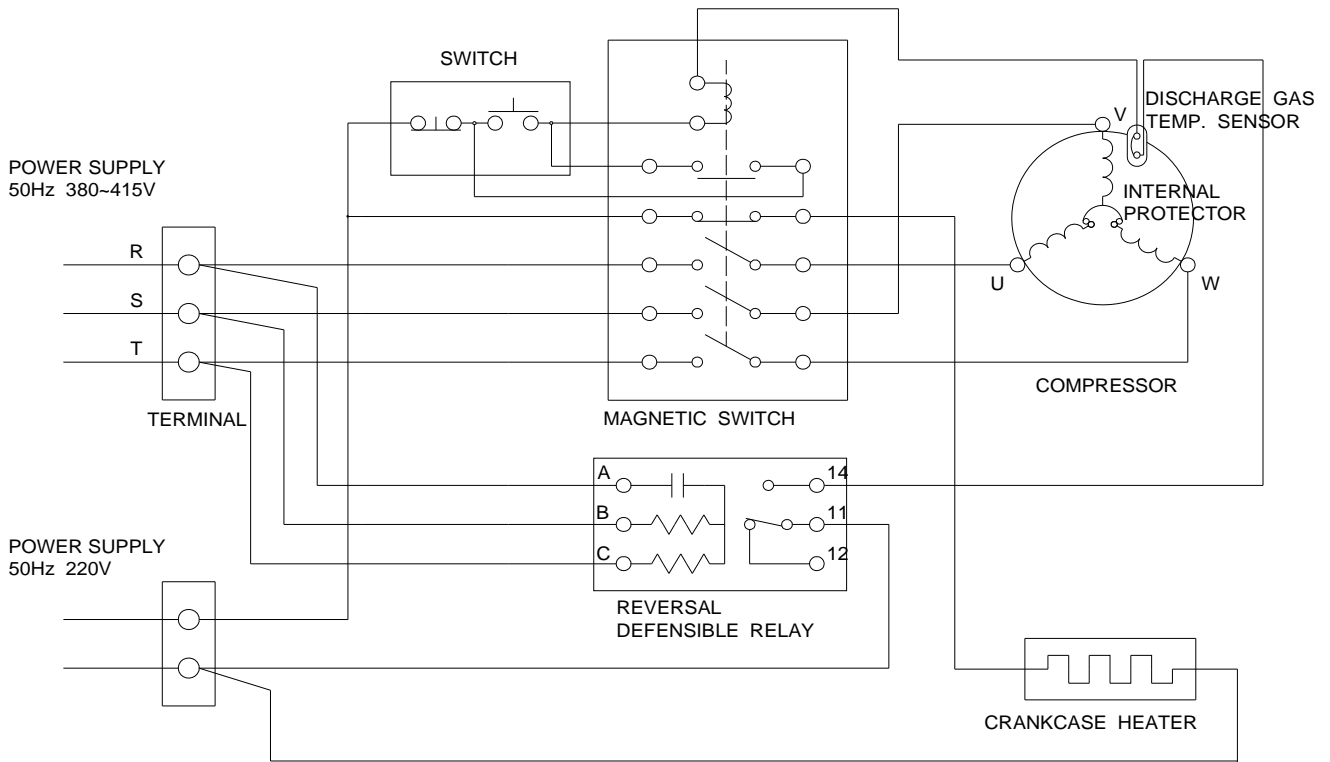
CONNECTOR  
 7/16-20UNF-2A  
 [1/4] FLARE CONNECT

SUCTION ACCEPT  
 $\phi 25.4 [1]$  O.D. TUBE



# WIRING & MOUNTING SKETCH

## WIRING DIAGRAM C-SC Series 3phase B8



## MOUNTING SKETCH

