



SPECIFICATIONS OF COMPRESSOR

Model No: C-SCP270H38A

Output : 8 HP



DALIAN SANYO COMPRESSOR Co.,Ltd.
SANYO Electric Co.,Ltd.

22-Nov-10

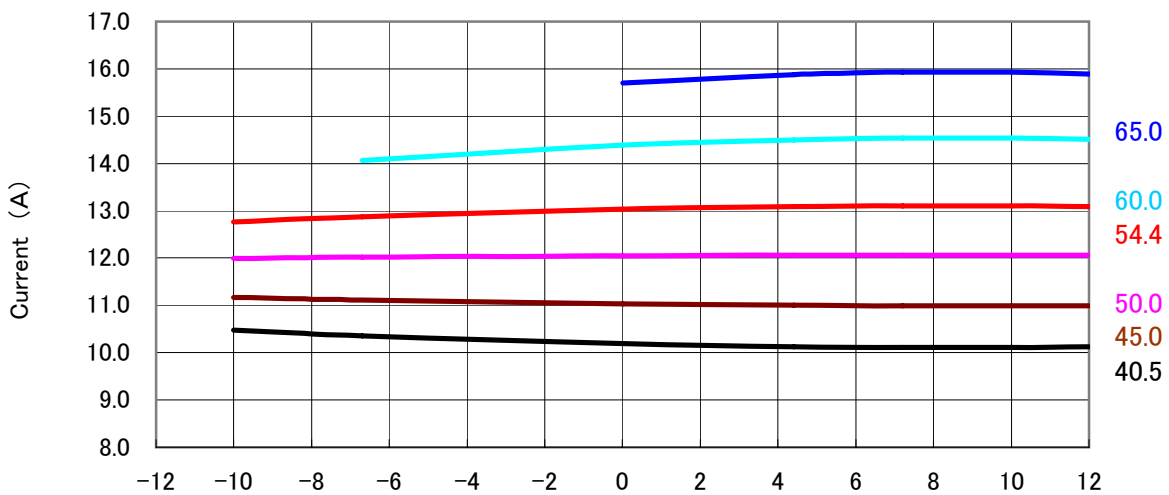
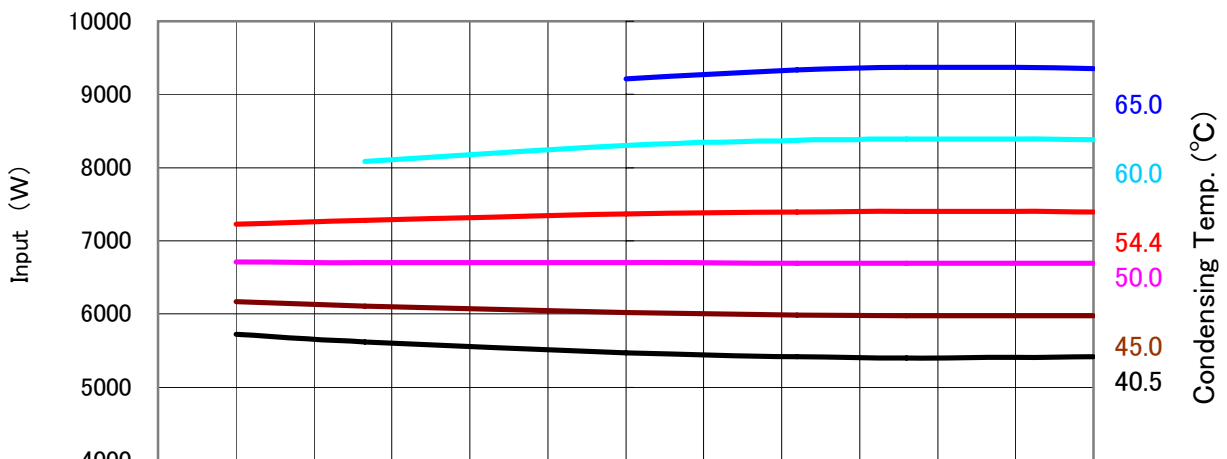
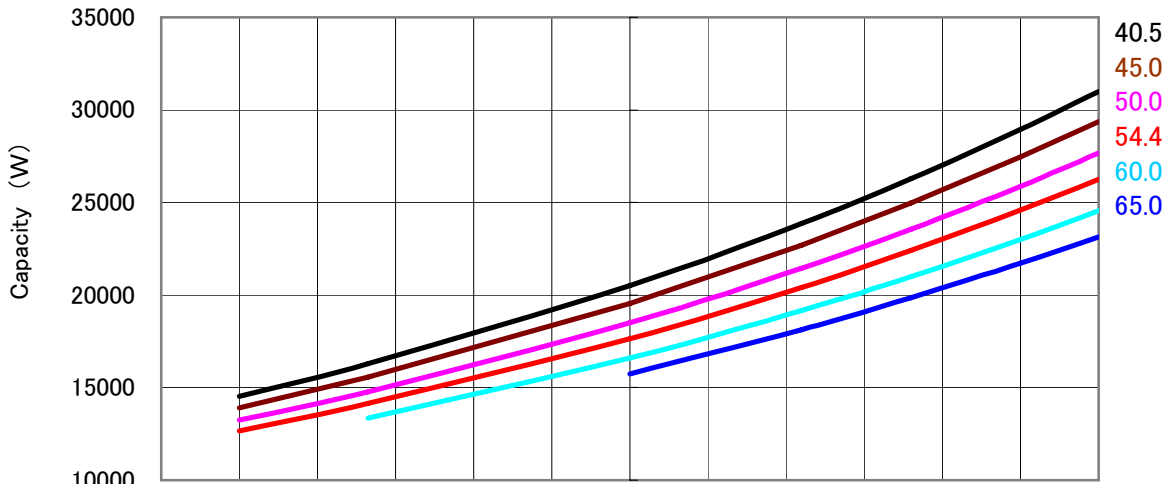
GENERAL SPECIFICATIONS

Model No:		C-SCP270H38A
Application		
Evaporating Temp Range	(°C)	-15.0 ~ 12.0
Refrigerant		R410A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	22400 / 27200
Input	(W)	7400 / 8900
Current	(A)	13.1 / 13.4
Sound Level	(dB(A))	68 / 70
Rating Conditions		
Power Source		3-PH 50/60Hz 380/440V
Evaporating Temp	(°C)	7.2
Condensing Temp	(°C)	54.4
Suction Gas Temp	(°C)	18.3
Liquid Temp	(°C)	46.1
Ambient Temp	(°C)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm ³)	89.2
Suction Line Connection	(Φ mm OD)	25.4
Discharge Line Connection	(Φ mm OD)	19.05
Oil	(ml)	2800 (FV68S)
Mass(Incl.Oil)	(kg)	69
Motor		
Type		3-PH Induction Motor(3IR)
Pole		2
Rated Power Source		3-PH 50/60Hz 380,415/440V
Voltage Range	(V)	342~456 / 396~484
Starting Current	(A)	96, 102 / 101

DALIAN SANYO COMPRESSOR Co.,Ltd.
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PERFORMANCE CURVE

Code No.	C-SCP270H38A
Power Source	3-PH 50Hz 380V
Condensing Temp.(°C)	40.5, 45, 50, 54.4, 60, 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R410A



Evaporating Temp. (°C)
PERFORMANCE DATA

Code No.	C-SCP270H38A
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Compressor Cooling	Natural Cooling
Refrigerant	R410A

Capacity (W)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	14,541	16,289	20,512	23,864	26,277	28,934	30,994
	45.0	13,909	15,560	19,539	22,691	24,956	27,448	29,379
	50.0	13,237	14,785	18,509	21,451	23,563	25,882	27,677
	54.4	12,671	14,135	17,647	20,416	22,400	24,577	26,260
	60.0		13,349	16,609	19,172	21,005	23,014	24,565
	65.0			15,739	18,131	19,840	21,709	23,151

Input (W)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	5,727	5,620	5,469	5,417	5,403	5,404	5,414
	45.0	6,170	6,107	6,017	5,985	5,976	5,976	5,981
	50.0	6,708	6,705	6,700	6,697	6,695	6,694	6,693
	54.4	7,223	7,282	7,365	7,393	7,400	7,398	7,392
	60.0		8,084	8,299	8,374	8,394	8,393	8,379
	65.0			9,216	9,340	9,374	9,374	9,353

Current (A)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	10.47	10.36	10.19	10.13	10.11	10.11	10.12
	45.0	11.16	11.11	11.03	11.00	10.99	10.99	10.99
	50.0	11.99	12.02	12.05	12.06	12.07	12.06	12.06
	54.4	12.77	12.88	13.03	13.09	13.10	13.10	13.09
	60.0		14.06	14.39	14.50	14.53	14.53	14.51
	65.0			15.70	15.88	15.93	15.93	15.90

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)
C1	3.219596E+04	3.593062E+03	6.370747E+00
C2	1.056983E+03	-9.479755E+01	-1.256042E-01
C3	-3.469117E+02	-2.027454E+01	1.274237E-02
C4	1.819444E+01	5.358398E+00	6.906110E-03
C5	-8.665679E+00	1.930288E+00	2.638099E-03
C6	1.452823E+00	1.645550E+00	2.015232E-03
C7	1.089955E-01	-1.132851E-02	-1.130512E-05
C8	-1.487040E-01	-1.066712E-01	-1.433611E-04
C9	5.563710E-07	-6.273563E-07	-7.456751E-10
C10	-3.344003E-06	-1.454315E-06	-1.630045E-09

Note: The polynomial coefficients subject to change without notice.

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

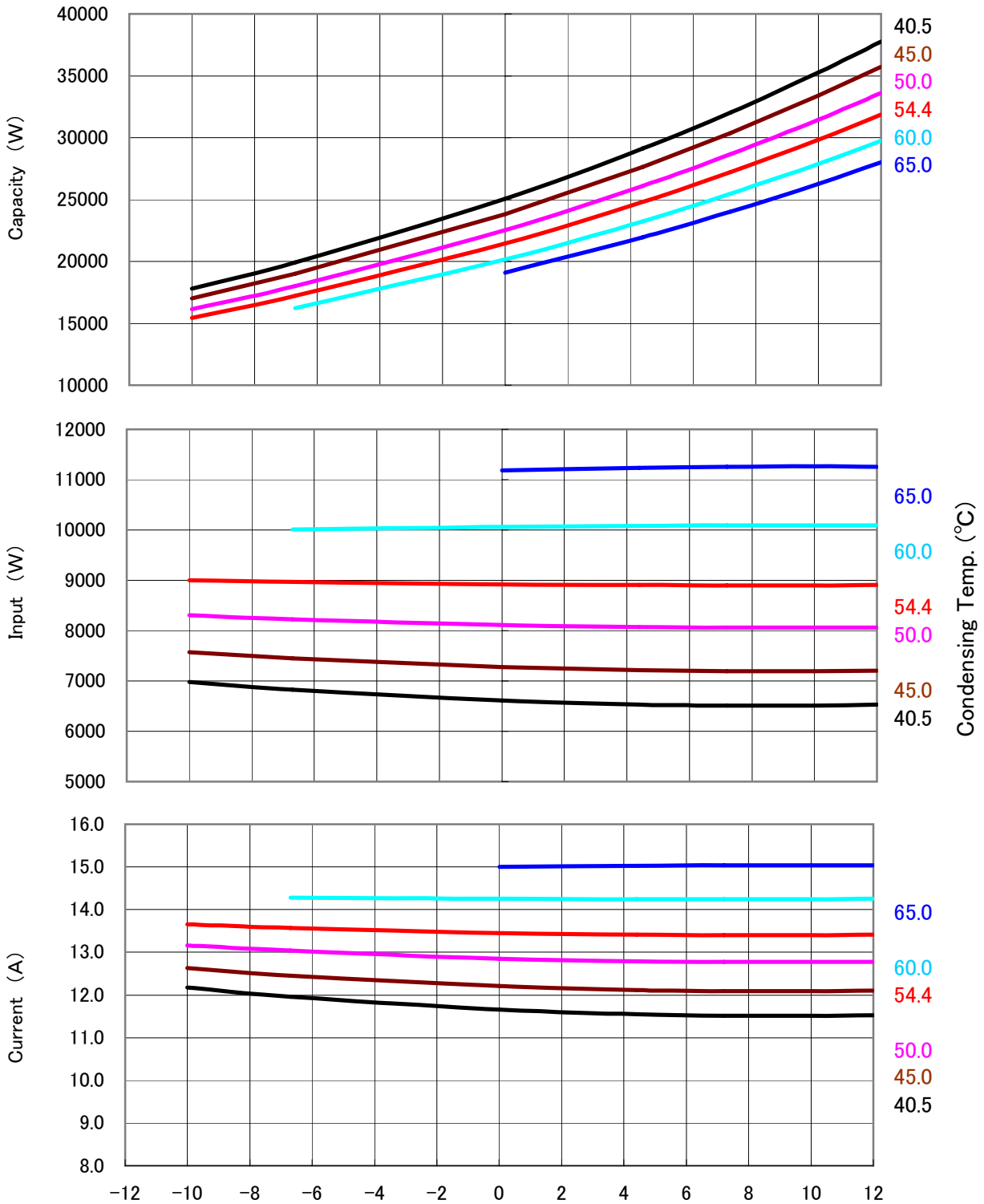
X—CAPACITY(W) OR POWER(W) OR CURRENT(A)

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C

PERFORMANCE CURVE

Code No.	C-SCP270H38A
Power Source	3-PH 60Hz 440V
Condensing Temp.(°C)	40.5, 45, 50, 54.4, 60, 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R410A



Evaporating Temp. (°C)
PERFORMANCE DATA

Code No.	C-SCP270H38A
Power Source	3-PH 60Hz 440V
Condensing Temp.(°C)	40.5, 45, 50, 54.4, 60, 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R410A

Capacity (W)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	17,797	19,923	25,052	29,119	32,044	35,264	37,759
	45.0	16,998	19,003	23,830	27,650	30,393	33,408	35,744
	50.0	16,149	18,027	22,538	26,098	28,652	31,455	33,623
	54.4	15,437	17,209	21,458	24,804	27,200	29,828	31,858
	60.0		16,223	20,160	23,251	25,461	27,881	29,749
	65.0			19,074	21,955	24,010	26,259	27,992

Input (W)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	6,981	6,828	6,611	6,534	6,513	6,513	6,527
	45.0	7,574	7,452	7,277	7,215	7,198	7,198	7,209
	50.0	8,302	8,222	8,109	8,069	8,058	8,058	8,065
	54.4	9,002	8,968	8,920	8,904	8,900	8,901	8,905
	60.0		10,008	10,060	10,080	10,088	10,091	10,090
	65.0			11,179	11,238	11,258	11,263	11,259

Current (A)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	12.17	11.96	11.65	11.54	11.51	11.51	11.53
	45.0	12.63	12.46	12.21	12.12	12.09	12.09	12.11
	50.0	13.16	13.04	12.85	12.79	12.77	12.77	12.78
	54.4	13.65	13.57	13.45	13.41	13.40	13.40	13.41
	60.0		14.28	14.25	14.24	14.24	14.25	14.25
	65.0			15.00	15.03	15.04	15.04	15.04

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)
C1	3.976015E+04	4.303782E+03	8.003631E+00
C2	1.290943E+03	-8.187901E+01	-9.585807E-02
C3	-4.374492E+02	-2.384154E+01	6.095206E-02
C4	2.203655E+01	4.380577E+00	5.246918E-03
C5	-1.071547E+01	1.435100E+00	1.537340E-03
C6	1.847124E+00	1.996413E+00	7.199483E-04
C7	1.298342E-01	-9.605760E-03	-7.327542E-07
C8	-1.816481E-01	-7.304923E-02	-8.226773E-05
C9	-2.992893E-07	-2.858596E-07	-5.517621E-10
C10	-4.187043E-06	-1.213571E-06	-6.197435E-10

Note: The polynomial coefficients subject to change without notice.

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

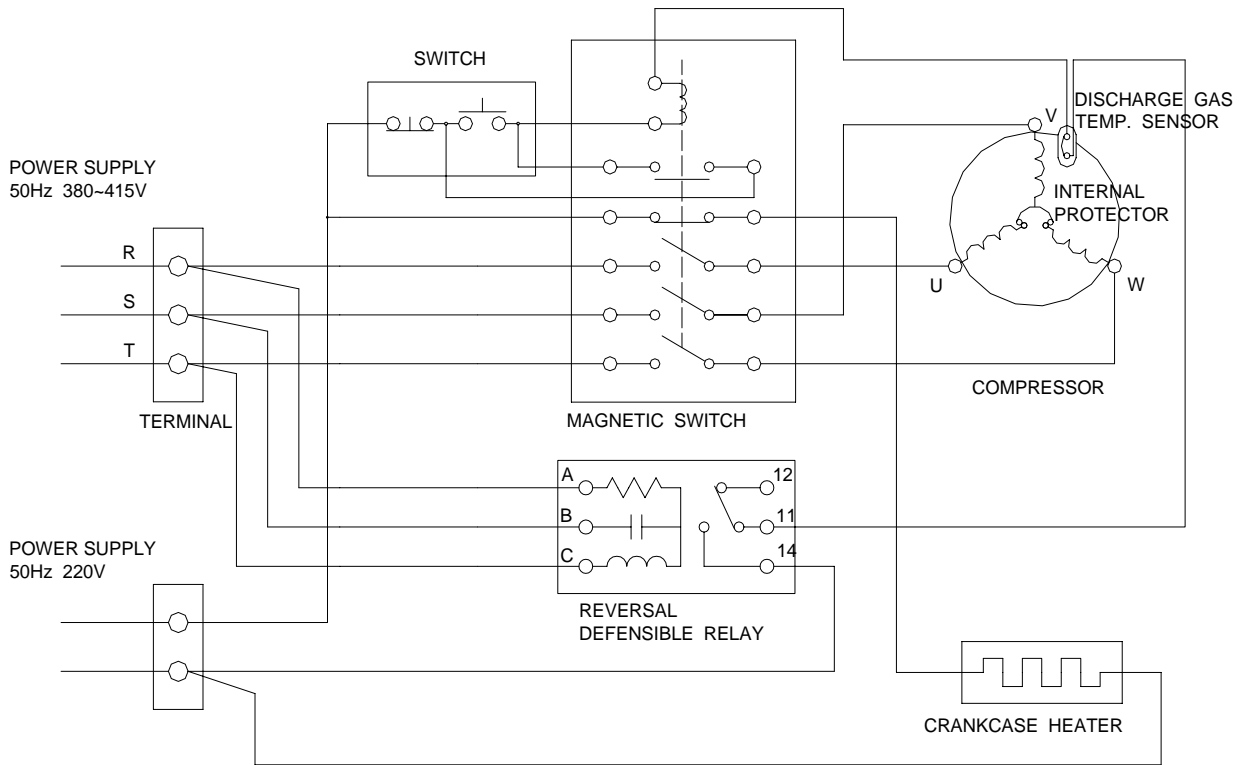
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WIRING & MOUNTING SKETCH

WIRING DIAGRAM C-SC Series 3phase



MOUNTING SKETCH

