



SPECIFICATIONS OF COMPRESSOR

Model No: C-SCP315H38A

Output : 10 HP



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

22-Nov-10

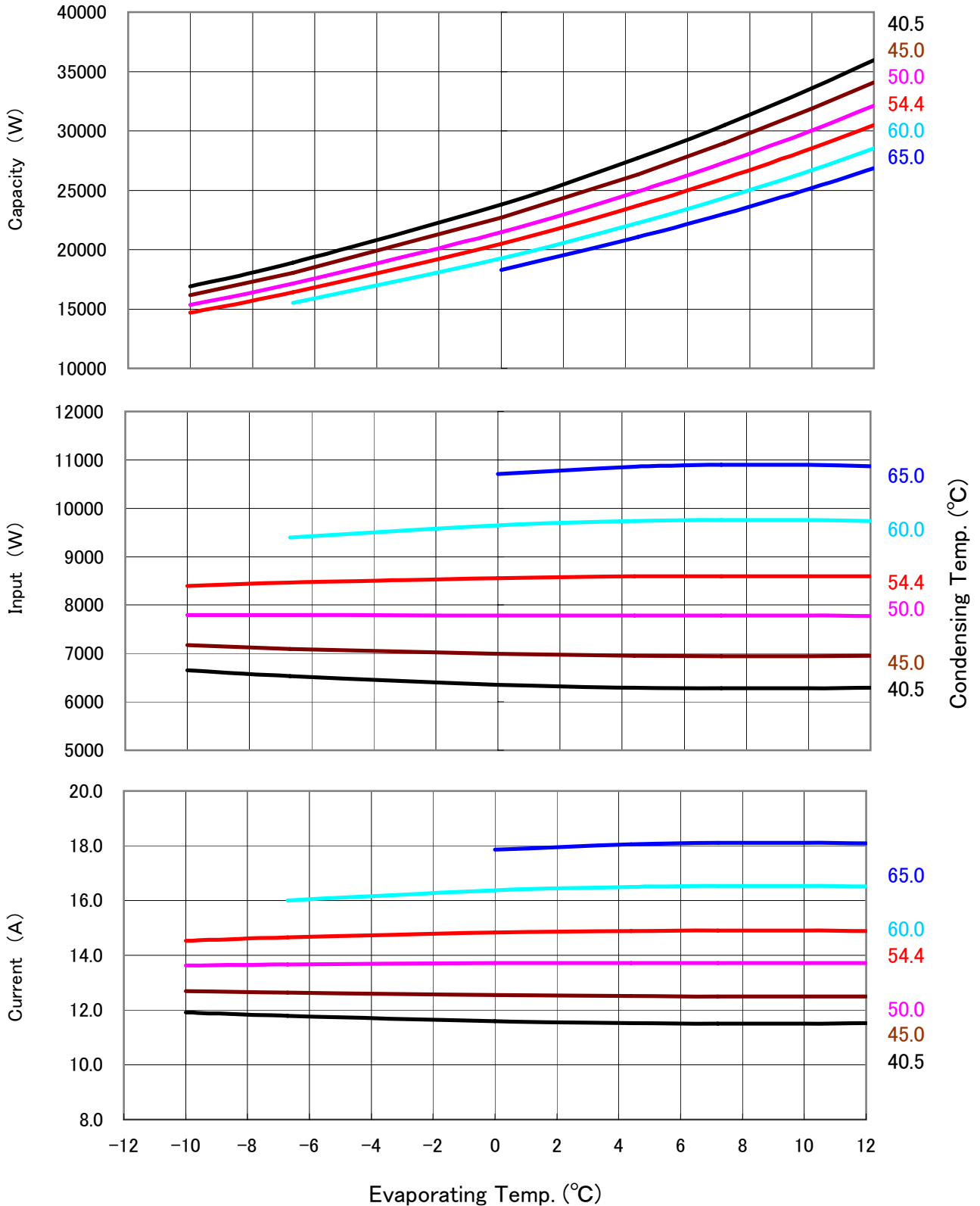
GENERAL SPECIFICATIONS

Model No:	C-SCP315H38A	
Application		
Evaporating Temp Range	(°C)	-15.0 ~ 12.0
Refrigerant	R410A	
Compressor Cooling	Natural Cooling	
Rated Performance		
Capacity	(W)	26000 / 31400
Input	(W)	8600 / 10400
Current	(A)	14.9 / 15.3
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)	104.1
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.
SANYO Electric Co.,Ltd.

PERFORMANCE CURVE

Code No.	C-SCP315H38A
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



PERFORMANCE DATA

Code No.	C-SCP315H38A
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

Capacity (W)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	16,878	18,907	23,808	27,699	30,500	33,584	35,976
	45.0	16,144	18,061	22,679	26,338	28,967	31,859	34,100
	50.0	15,364	17,161	21,484	24,899	27,350	30,042	32,125
	54.4	14,707	16,406	20,483	23,697	26,000	28,527	30,481
	60.0		15,494	19,278	22,253	24,381	26,712	28,513
	65.0			18,269	21,045	23,028	25,198	26,872

Input (W)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	6,656	6,532	6,356	6,295	6,279	6,280	6,292
	45.0	7,170	7,097	6,993	6,956	6,945	6,945	6,951
	50.0	7,796	7,793	7,786	7,783	7,781	7,779	7,778
	54.4	8,395	8,463	8,560	8,592	8,600	8,598	8,590
	60.0		9,395	9,645	9,732	9,755	9,754	9,738
	65.0			10,711	10,854	10,894	10,894	10,869

Current (A)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	11.91	11.78	11.59	11.52	11.50	11.50	11.52
	45.0	12.70	12.63	12.54	12.51	12.50	12.50	12.50
	50.0	13.64	13.67	13.71	13.72	13.72	13.72	13.72
	54.4	14.52	14.65	14.82	14.88	14.90	14.90	14.88
	60.0		15.99	16.37	16.50	16.53	16.53	16.51
	65.0			17.86	18.06	18.11	18.11	18.08

Coefficients of Polynomial Formula

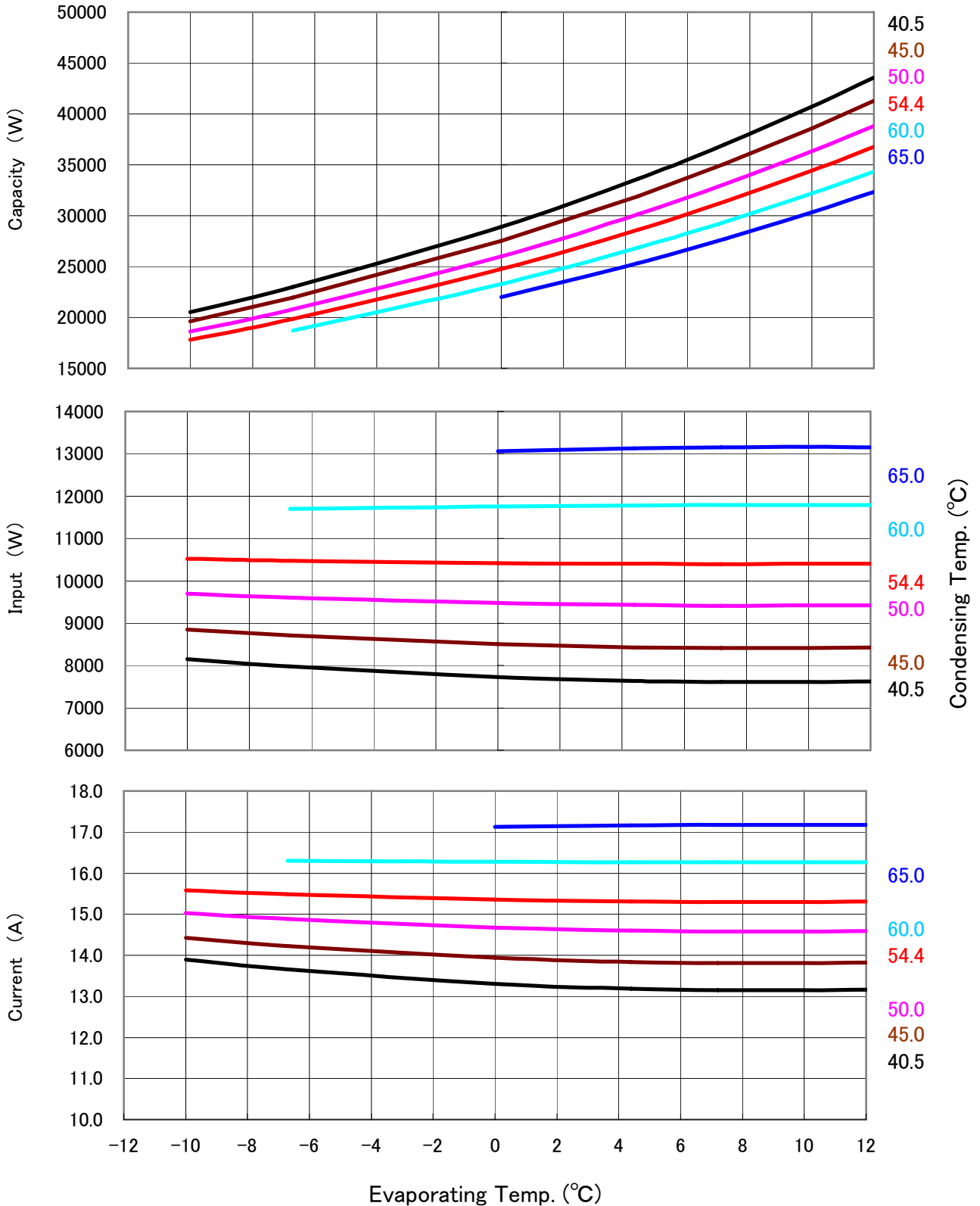
	Capacity (W)	Input (W)	Current (A)
C1	3.735621E+04	4.167729E+03	7.212811E+00
C2	1.226742E+03	-1.102378E+02	-1.430702E-01
C3	-4.021217E+02	-2.325106E+01	1.555649E-02
C4	2.113153E+01	6.233160E+00	8.099607E-03
C5	-1.005607E+01	2.244689E+00	3.003962E-03
C6	1.681204E+00	1.909445E+00	2.283856E-03
C7	1.265966E-01	-1.311006E-02	-1.197110E-05
C8	-1.728815E-01	-1.240986E-01	-1.677022E-04
C9	3.146374E-07	-1.289246E-06	-1.259029E-09
C10	-3.920115E-06	-1.725538E-06	-1.924604E-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-SCP315H38A
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



PERFORMANCE DATA

Code No.	C-SCP315H38A
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	20,546	22,999	28,920	33,615	36,992	40,709	43,590
	45.0	19,623	21,937	27,510	31,919	35,086	38,567	41,263
	50.0	18,643	20,811	26,018	30,128	33,076	36,311	38,815
	54.4	17,820	19,866	24,771	28,634	31,400	34,433	36,778
	60.0		18,728	23,273	26,842	29,393	32,186	34,342
	65.0			22,019	25,345	27,718	30,313	32,315

Input (W)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	8,157	7,979	7,725	7,636	7,611	7,611	7,627
	45.0	8,851	8,708	8,503	8,432	8,412	8,412	8,424
	50.0	9,701	9,608	9,475	9,429	9,416	9,416	9,425
	54.4	10,519	10,479	10,423	10,404	10,400	10,402	10,406
	60.0		11,694	11,755	11,779	11,788	11,792	11,791
	65.0			13,063	13,132	13,155	13,162	13,156

Current (A)

		Evaporating Temp. (°C)						
		-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	40.5	13.90	13.65	13.30	13.18	13.15	13.14	13.16
	45.0	14.42	14.22	13.94	13.83	13.81	13.81	13.82
	50.0	15.03	14.88	14.68	14.60	14.58	14.58	14.59
	54.4	15.59	15.49	15.36	15.31	15.30	15.30	15.31
	60.0		16.30	16.27	16.26	16.26	16.27	16.27
	65.0			17.13	17.16	17.17	17.18	17.18

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)
C1	4.590093E+04	5.032435E+03	9.203960E+00
C2	1.490293E+03	-9.563903E+01	-1.080205E-01
C3	-5.050526E+02	-2.798741E+01	6.702326E-02
C4	2.544146E+01	5.115448E+00	5.842729E-03
C5	-1.237031E+01	1.676186E+00	1.740244E-03
C6	2.132908E+00	2.334091E+00	8.459142E-04
C7	1.498678E-01	-1.125351E-02	-8.710858E-06
C8	-2.097371E-01	-8.528698E-02	-9.025220E-05
C9	3.069633E-08	-2.685929E-07	3.681537E-10
C10	-4.854818E-06	-1.418622E-06	-6.753649E-10

Note: The polynomial coefficients subject to change without notice.

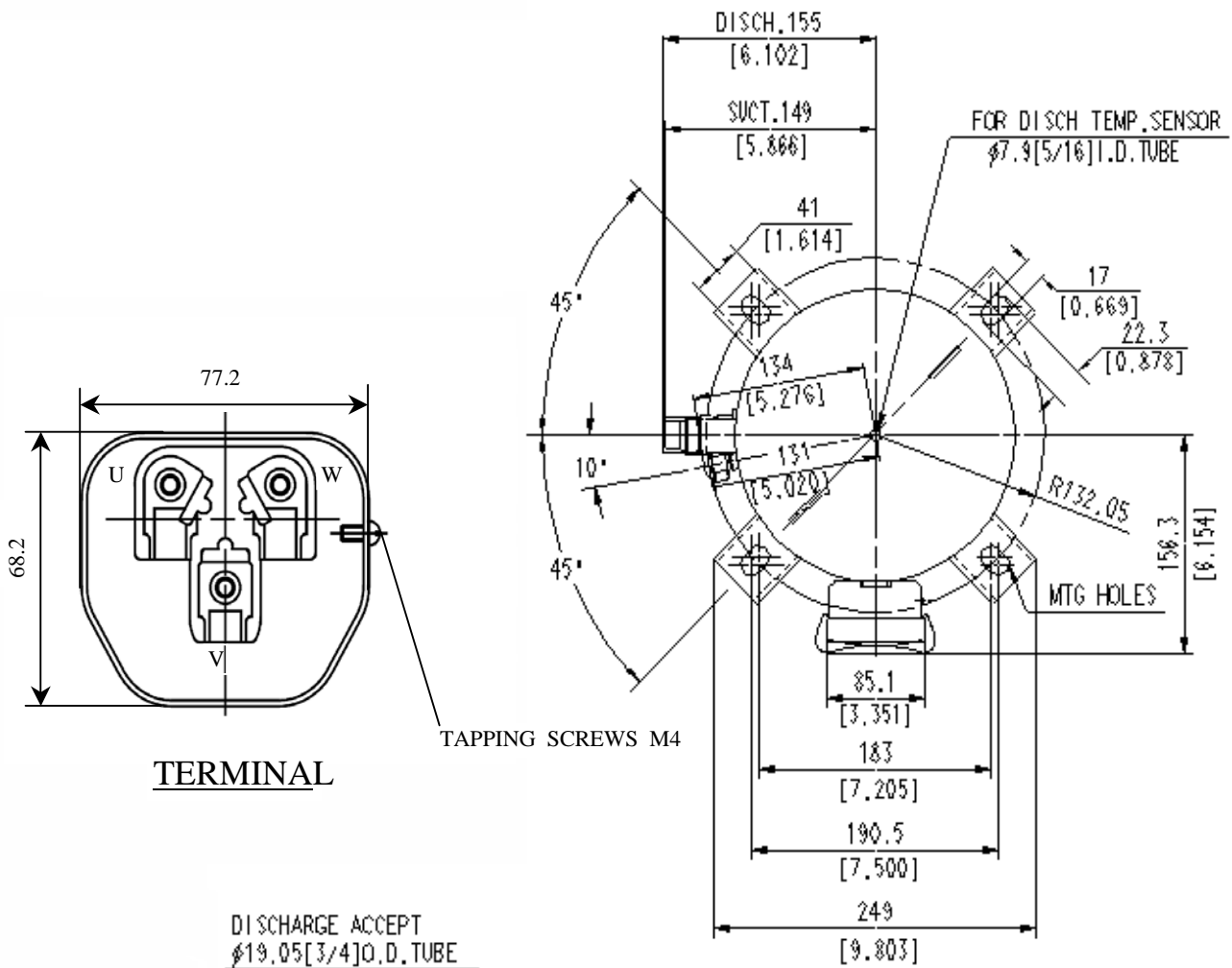
$$X = C1 + C2*(S) + C3*D + C4*(S^2) + C5*(S*D) + C6*(D^2) + C7*(S^3) + C8*(D*S^2) + C9*(S*D^2) + C10*(D^3)$$

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

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C

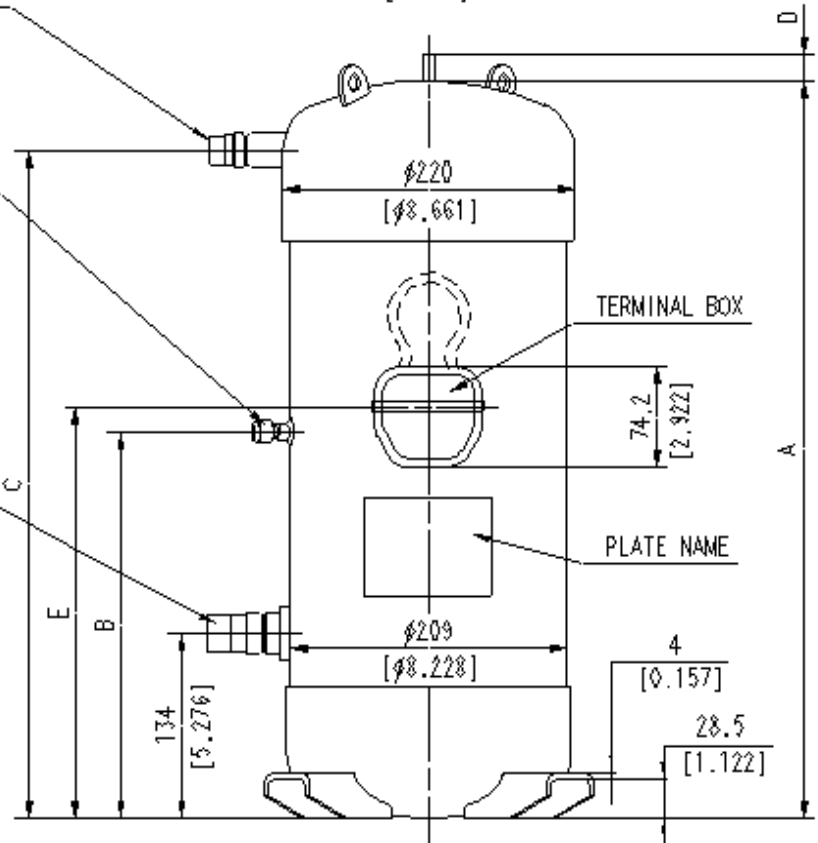
Compressor Outline Drawing



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

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

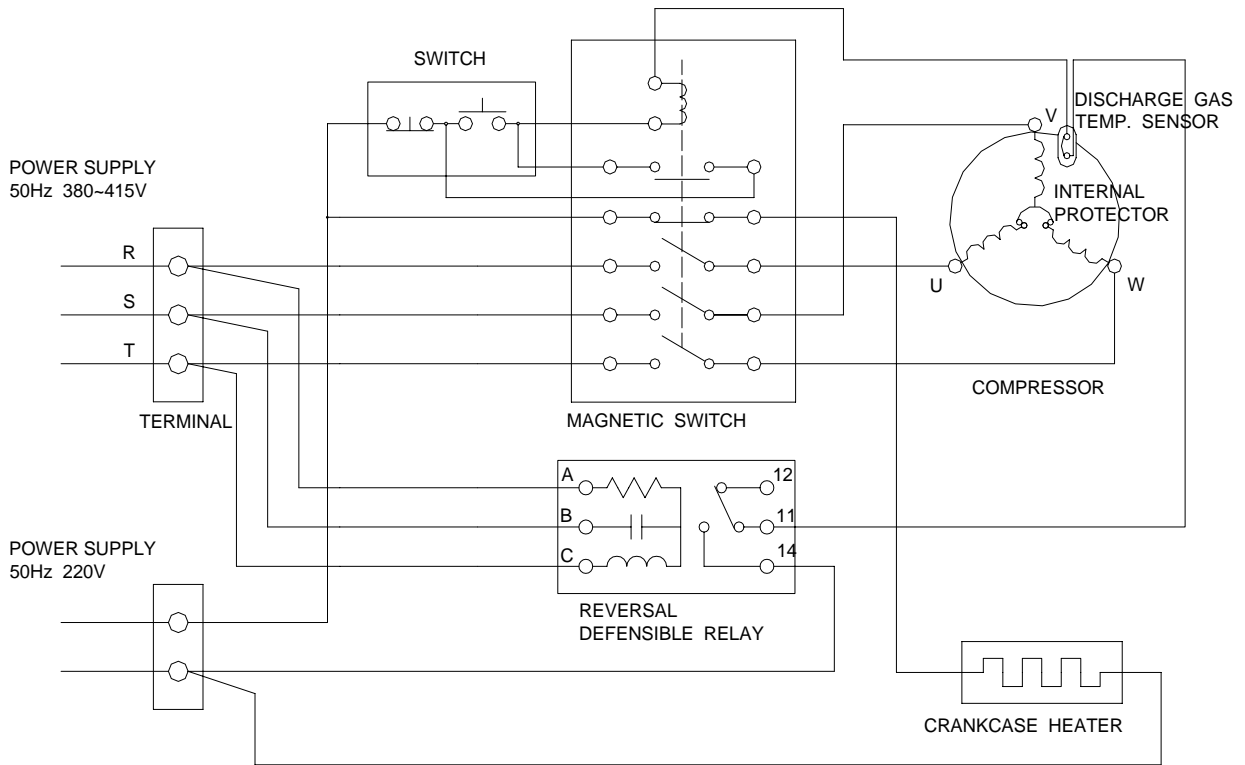
SUCTION ACCEPT
 $\phi 25.4 [1]$ O.D. TUBE



A	B	C	D	E
553	299	501	9	304

WIRING & MOUNTING SKETCH

WIRING DIAGRAM C-SC Series 3phase



MOUNTING SKETCH

