SPECIFICATIONS OF COMPRESSOR

Model No: 5CF227SA04

Output : 20 HP

Temporary

Panasonic Appliances Compressor (Dalian) Co., Ltd.

20-Jul-21

GENERAL SPECIFICATIONS

Model No:		5CF227SA04
Application		
Evaporating Temp Range	(℃)	-25.0 ～ 20.0
Refrigerant		R410A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	61670
Input	(W)	18780
Current	(A)	32.9
Revolution	(min^{-1})	2920
Sound Level	(dB(A))	
Rating Conditions		
Power Source		3-PH 50Hz 380V
Evaporating Temp	(℃)	7
Condensing Temp	(℃)	54.5
Suction Gas Temp	(℃)	18.3
Liquid Temp	(℃)	46.1
Ambient Temp	(℃)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm3)	227.0
Suction Line Connection	(Φmm OD)	41.2
Discharge Line Connection	(Φmm OD)	34.9
Oil	(ml)	4500 (FV68S)
Mass(Incl.Oil)	(kg)	100
Motor		
Type		3-PH Induction Motor(3IR)
Pole		2
Rated Power Source		3-PH 50Hz 380-415
Voltage Range	(V)	342～456
Starting Current	(A)	—

Panasonic Appliances Compressor (Dalian) Co., Ltd.

PERFORMANCE DATA

Compressor Model	**5CF227SA04**
Power Source	**3PH 50Hz 380V**
Suction Gas Superheat(K)	**11.1**
Sub Cooling(K)	**8.3**
Compressor Cooling	**Natural Cooling**
Refrigerant	**R410A**

CAPACITY(W)

Condensing	Evaporating Temperature(℃)							
Temperature(℃)	-15	-10	-6.7	0	4.4	7.2	10	15
35.0	36,340	43,450	48,890	62,120	72,700	80,360	88,810	106,190
40.5	33,940	40,530	45,560	57,780	67,540	74,600	82,390	98,370
45.0	32,080	38,260	42,980	54,430	63,560	70,160	77,430	92,360
50.0	30,120	35,880	40,280	50,920	59,400	65,510	72,260	86,070
54.4		33,910	38,030	48,010	55,950	61,670	67,980	80,890
60.0			35,360	44,560	51,860	57,120	62,910	74,750
65.0				41,710	48,490	53,370	58,730	69,700

POWER(W)

Condensing	Evaporating Temperature(℃)							
Temperature(℃)	-15	-10	-6.7	0	4.4	7.2	10	15
35.0	12,340	12,440	12,500	12,640	12,720	12,780	12,840	12,940
40.5	13,780	13,870	13,940	14,070	14,150	14,210	14,260	14,360
45.0	15,120	15,210	15,280	15,400	15,480	15,540	15,590	15,690
50.0	16,790	16,870	16,930	17,050	17,130	17,180	17,240	17,330
54.4		18,490	18,540	18,660	18,730	18,780	18,830	18,910
60.0			20,800	20,900	20,970	21,010	21,050	21,130
65.0				23,090	23,150	23,190	23,220	23,290

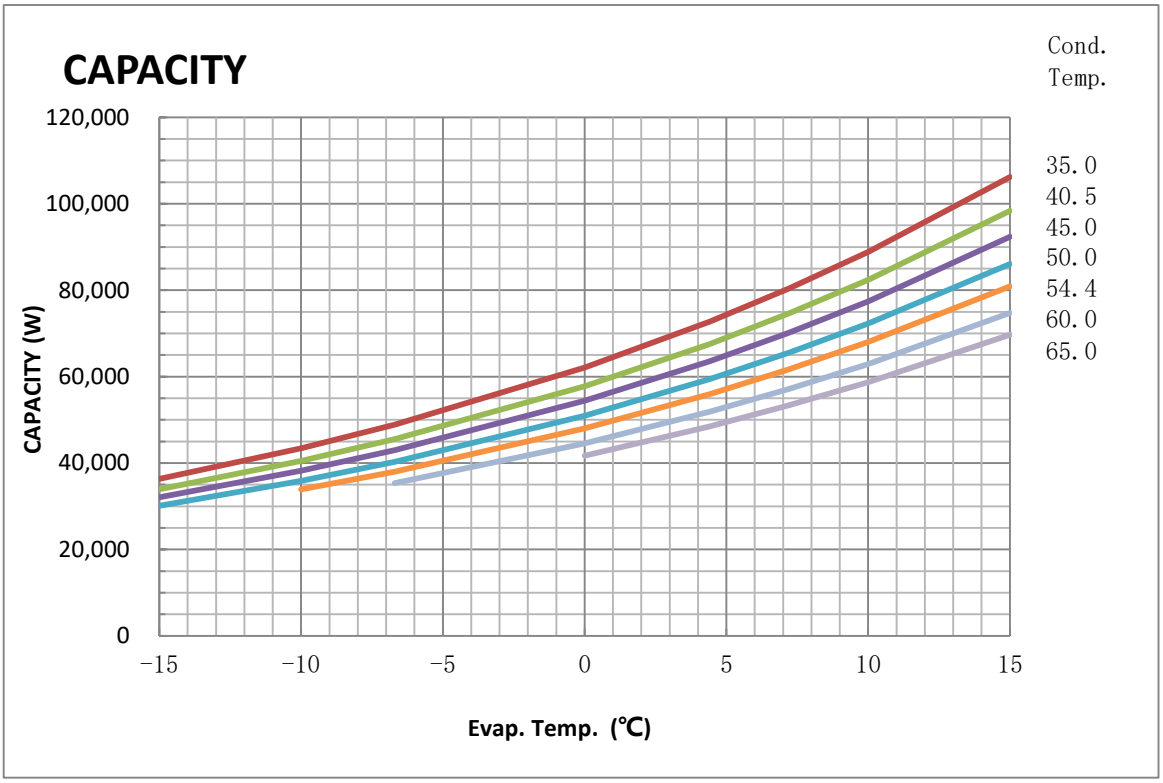
CURRENT(A)

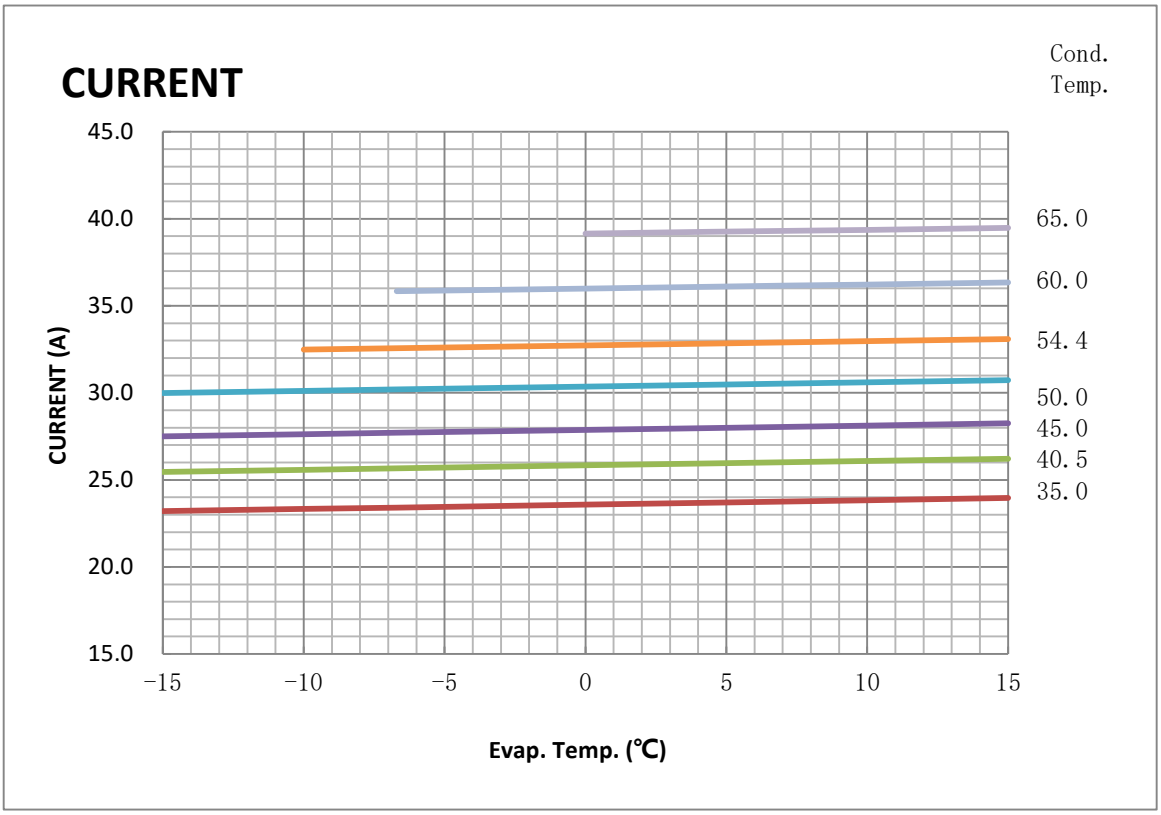
Condensing	Evaporating Temperature(℃)							
Temperature(℃)	-15	-10	-6.7	0	4.4	7.2	10	15
35.0	23.2	23.3	23.4	23.6	23.7	23.8	23.8	24.0
40.5	25.5	25.6	25.7	25.8	25.9	26.0	26.1	26.2
45.0	27.5	27.6	27.7	27.9	28.0	28.1	28.1	28.3
50.0	30.0	30.1	30.2	30.4	30.5	30.5	30.6	30.7
54.4		32.5	32.6	32.7	32.8	32.9	33.0	33.1
60.0			35.8	36.0	36.1	36.2	36.2	36.3
65.0				39.1	39.2	39.3	39.4	39.5

Mass Flow(kg/h)

Condensing	Evaporating Temperature(℃)							
Temperature(℃)	-15	-10	-6.7	0	4.4	7.2	10	15
35.0	689	815	910	1,140	1,322	1,452	1,596	1,888
40.5	685	809	903	1,129	1,307	1,434	1,574	1,859
45.0	683	805	898	1,120	1,295	1,420	1,557	1,836
50.0	680	800	891	1,109	1,281	1,404	1,538	1,811
54.4		796	886	1,101	1,269	1,390	1,522	1,789
60.0			879	1,089	1,254	1,372	1,501	1,762
65.0				1,080	1,241	1,357	1,483	1,738

Compressor Model(Code)	**5CF227SA04**
Power Source	**3PH 50Hz 380V**





COEFFICIENTS OF PERFORMANCE CURVES

Compressor Model	**5CF227SA04**
Power Source	**3PH 50Hz 380V**
Suction Gas Superheat (K)	**11.1**
Sub Cooling (K)	**8.3**
Compressor Cooling	**Natural Cooling**
Refrigerant	**R410A**

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

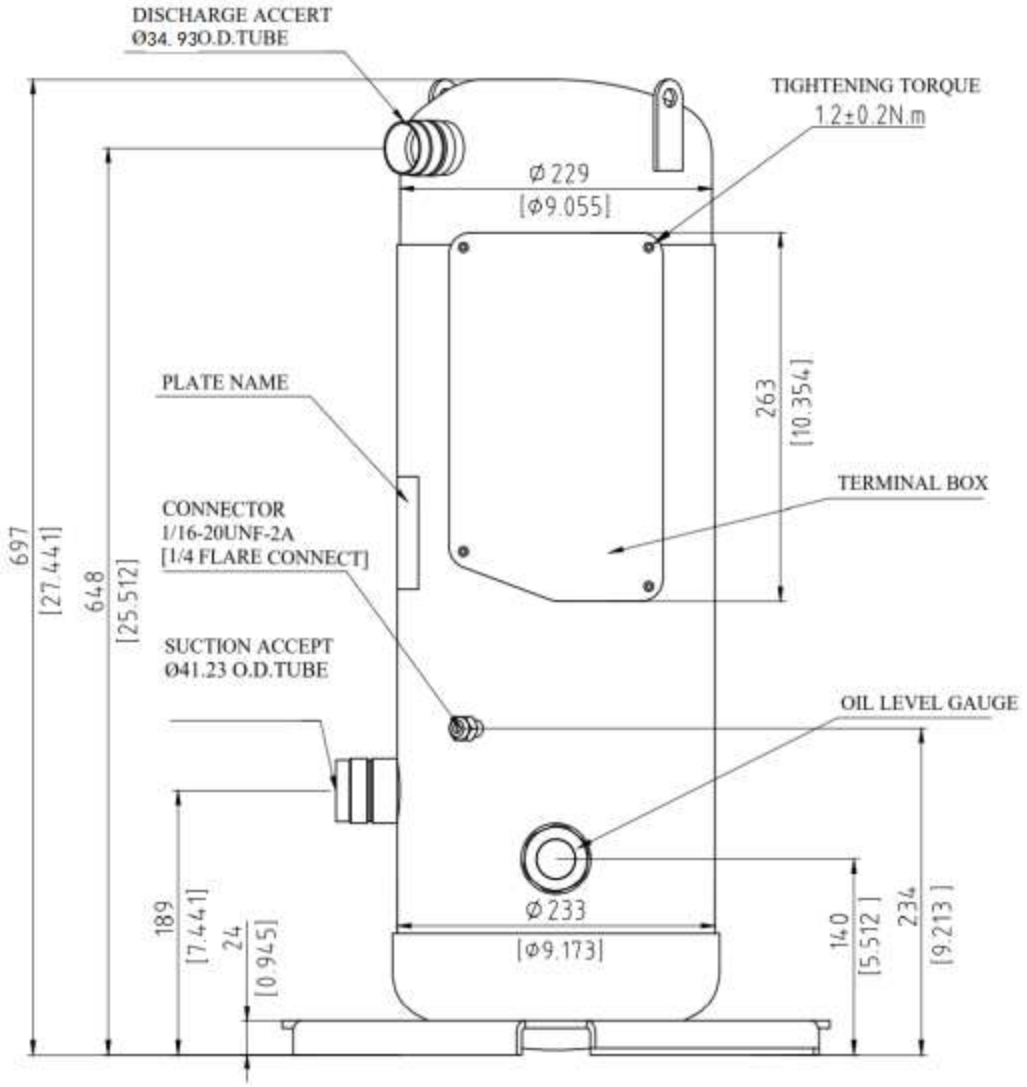
X——CAPACITY(W) OR POWER(W) OR CURRENT(A) OR MASS FLOW(kg/h)

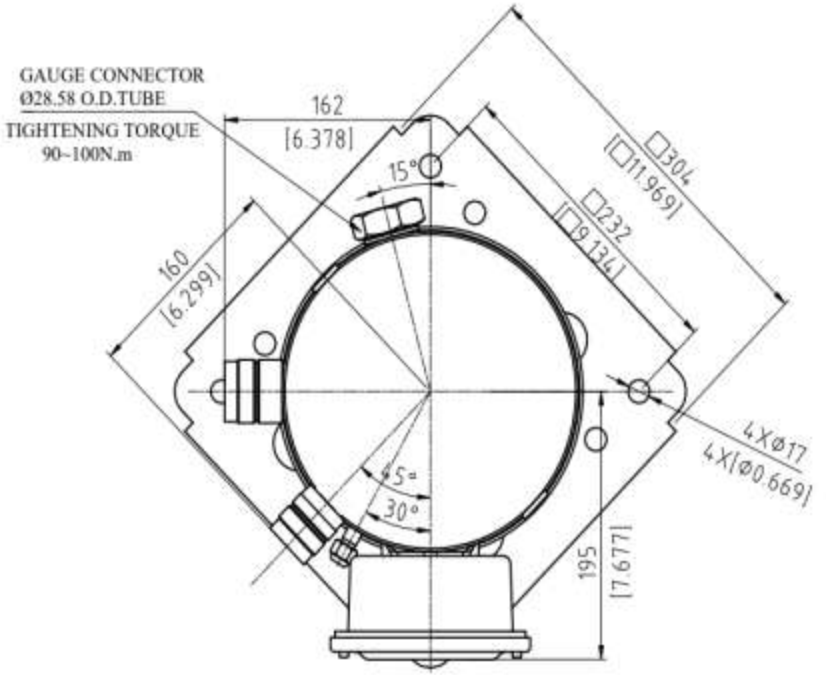
S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

380V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)	MASS FLOW (kg/h)
C1	9.597763E+04	8.638326E+03	1.561747E+01	1.213078E+03
C2	3.711488E+03	1.211987E+01	1.839732E-02	4.430304E+01
C3	-1.125011E+03	-1.199174E+01	7.061926E-02	-2.157424E+00
C4	6.136768E+01	2.075279E-02	2.350162E-05	7.945544E-01
C5	-5.059060E+01	4.683859E-01	3.614520E-04	-1.829552E-01
C6	4.471919E+00	3.605568E+00	4.483092E-03	1.598050E-03
C7	4.141732E-01	-4.652641E-04	-3.972816E-08	6.742663E-03
C8	-5.915192E-01	-2.035478E-05	-2.784592E-07	-3.830342E-03
C9	2.375649E-01	-6.982637E-03	-4.744710E-06	4.238330E-04
C10	-7.767257E-08	-1.640922E-08	-1.656827E-11	9.781569E-10

Note: The polynomial coefficients subject to change without notice.





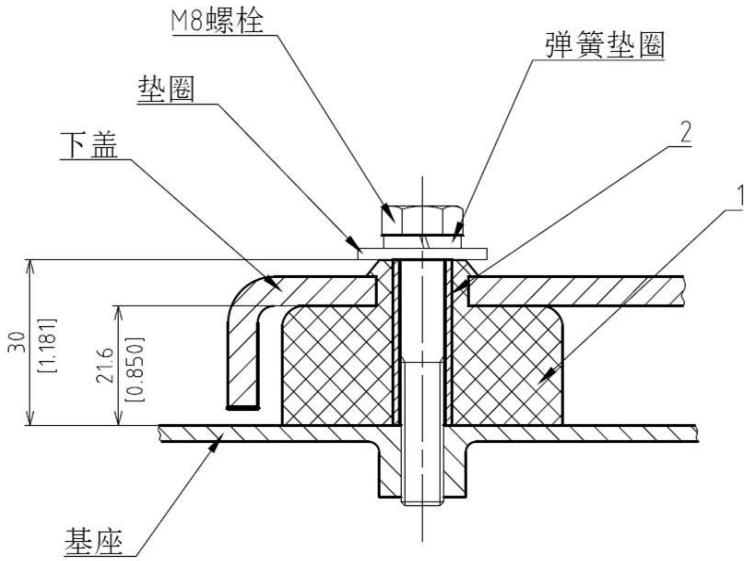
Part Code

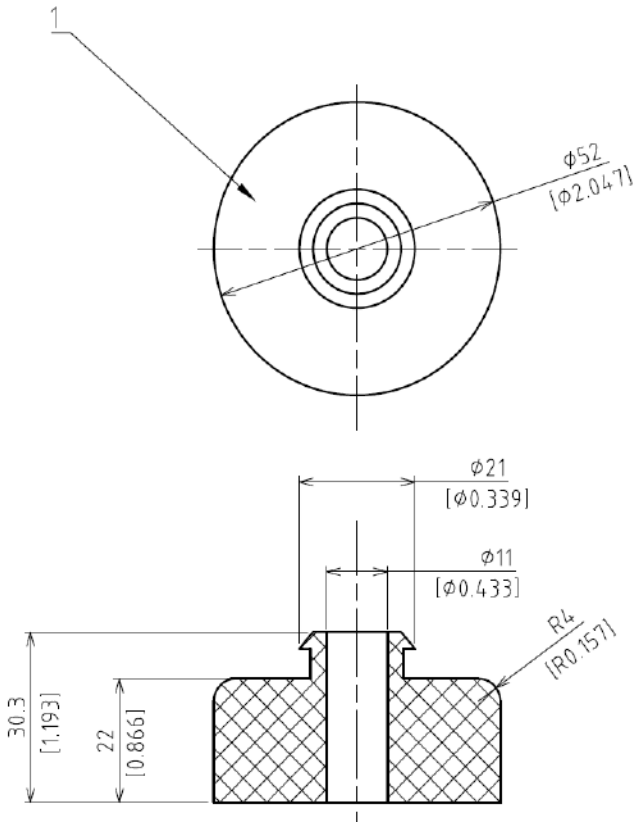
D-0105-DSF-0

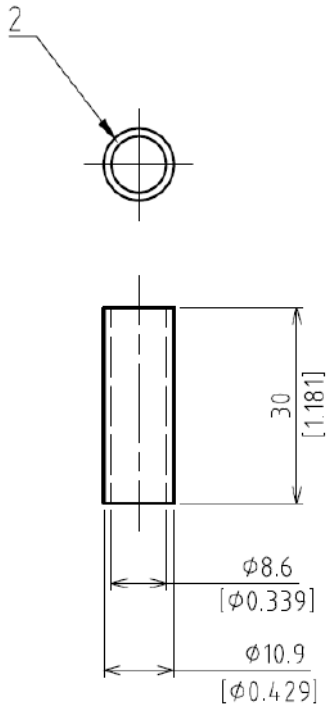
Name

Compressor Outline Drawing

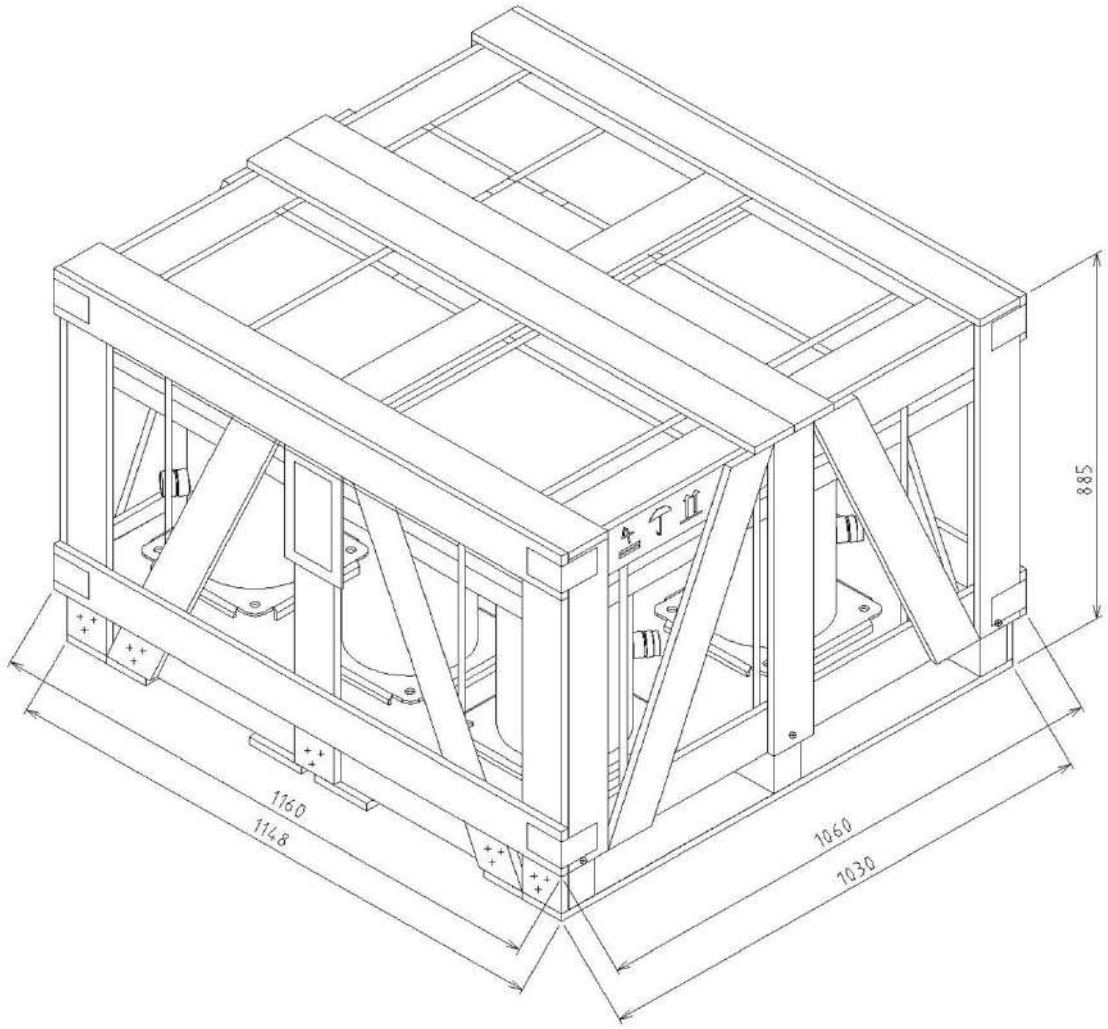
No.	QTY	Name
1	4	Cushion Rub.
2	4	Collar



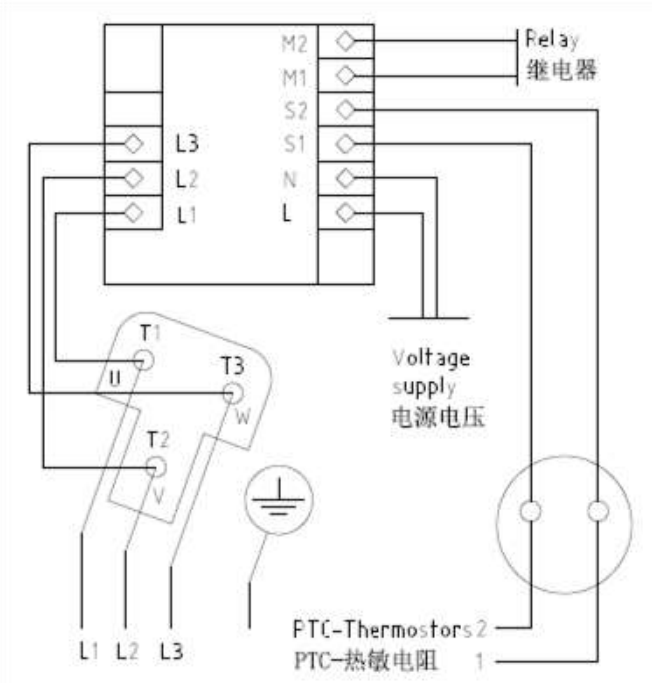


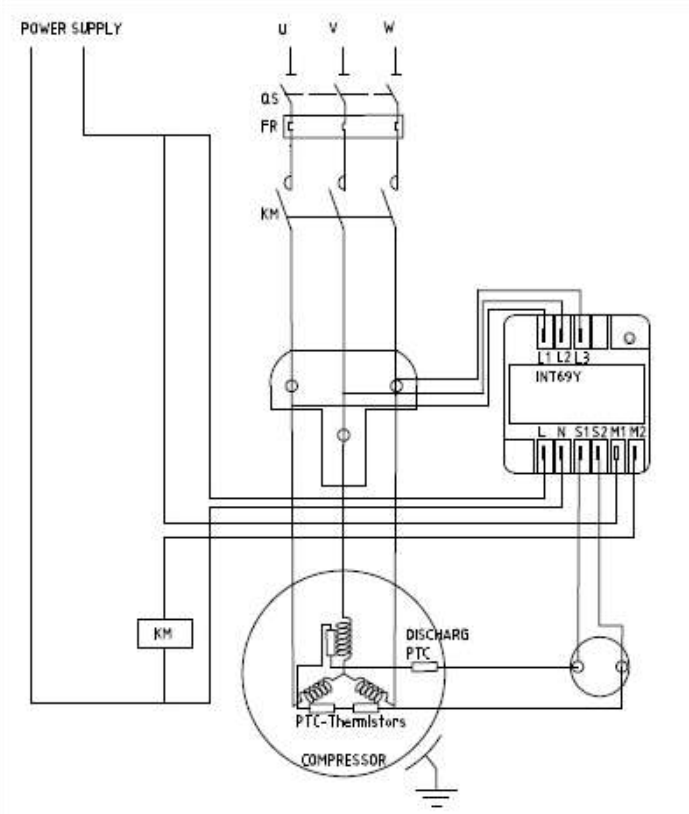


Part Code
M-5102-DSB-0
Name
Mounting Parts Listing



Part Code
D-0202-DSB
Name
Packing Dimensions





Part Code
E-0910-DSB
Name
Wiring Diagram

Operation Envelope

Suction Gas Superheat: 11.1K
Refrigerant:R410A