

# XA235C-D1-100 Technical Specifications

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## 1 . Specifications

Model	XA235C-D1-100	<b>Power</b>	8HP
<b>Displacement(m<sup>3</sup>/h)</b>	18.1	<b>Refrigerant</b>	R410A
<b>Cooling Cap.(W) <sup>(a)</sup></b>	28838	<b>Input Power(W) <sup>(a)</sup></b>	9003
<b>Rated Load Amps(A) <sup>(a)</sup></b>	27.2	<b>COP <sup>(a)</sup></b>	3.20
<b>Max. Vibration(mm) <sup>(a)</sup></b>	<0.10	<b>Sound Level (dBA) <sup>(a)</sup></b>	78
<b>Test Power Source <sup>(a)</sup></b>	60Hz-220V	<b>Rated Speed (RPM) <sup>(a)</sup></b>	3500
<b>Max. Moisture (mg)</b>	< 500	<b>Max. Impurity (mg)</b>	< 100
<b>Oil Circulation (%) <sup>(a)</sup></b>	<1%	<b>Weight (kg, With Oil)</b>	53.0
<b>Electrical Specification</b>	Power Source	208V-230V/3Ph/60Hz	
	Run Capacitor	\	
	Min. Operation Voltage(V) <sup>(b)</sup>	187	
	Max. Operation Voltage(V)	253	
	Min. Starting Voltage(V) <sup>(c)</sup>	177	
	Lock Rotor Amps(A)	232.00	
	Max. Operation Current <sup>(d)</sup>	34.1 (A)	
	Motor Insulation Temp.(°C)	130	
<b>Terminal Resistance (Ω) ( ± 10%) At 25 °C</b>	<b>T1(C)-T2(S)</b>	0.282	
	<b>T2(S)-T3(R)</b>	0.278	
	<b>T3(R)-T1(C)</b>	0.278	
<b>Lubrication</b>	<b>Oil Type</b>	POE(32cSt)	
	<b>Initial Charge(L)</b>	3.5	
	<b>Recharge(L)</b>	3	
<b>Electrical Safety</b>	<b>Insulation Voltage(V)</b>	2500	
	<b>Leakage Current(mA)</b>	≤5	
	<b>Insulation Resistance(MΩ)</b>	>20	
	<b>Ground Resistance(Ω)</b>	<0.1	
<b>Max. Operation Pressure</b>	<b>High Side(MPa)</b>	4.3	
	<b>Low Side(MPa)</b>	2.0	

Notes:

- a) Test Condition: Based On Test Power Voltage, First Rated Condition;
- b) Test Condition: ET 13°C, CT 65°C, SH 11.1K
- c) Test Condition: Discharge/Suction Pressure Set To Refrigeration Saturation Pressure At 40°C.
- d) Test Condition: ET 13°C, CT 65°C, SH11.1K, 90% Min. Rated Voltage;

## 2 . Configuration

Suction/Discharge	Injection	Sight Glass	Thermal Tube
Welded Fittings	NONE	NONE	NONE

### 3 . Attachments

Name	Part Number	Description	Qty.
Screws	100-0006-00	Flange Screw, M5x8,GB/T5789	7
Mount Ground	200-0001-00		4
Mount Sleeve	019-0002-00		4
Terminal Cover	017-0002-00		1
Terminal Fence	017-0001-00		1
Terminal Cover Seal	009-0025-00		1
Fusite Seal	009-0023-00		1
DTC Valve			NONE
DTC Seal			NONE
Suction Valve Seal			NONE
Discharge Valve Seal			NONE

### 4 . First Test Condition (°C)

Cooling Cap. and COP No Less Than **95%** of Nominal Value, Power and Current No More Than 105% of Nominal Value (Performance And Sound Power Need 24hrs Break In At High Load Running Condition)。

Item	Parameter	Value
1	Evaporating Temp.	7.2
2	Condensing Temp.	54.4
3	Ambient Temp.	35.0
4	Super Heat	11.1
5	Sub Cooling	8.3

### 5 . Internal Protection Parts

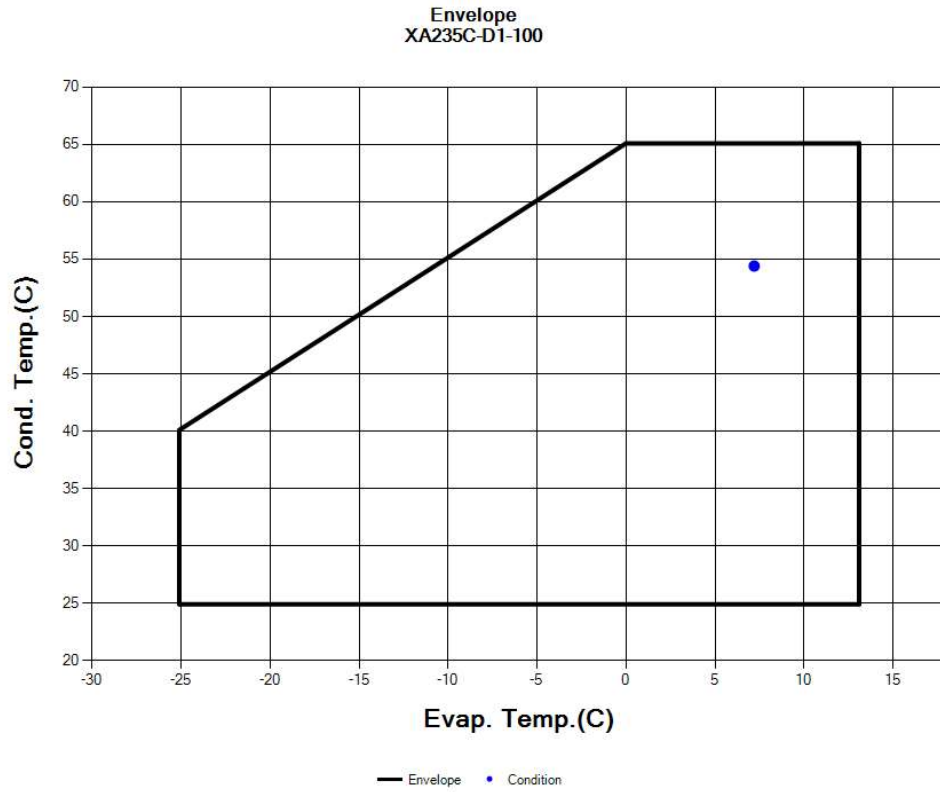
- a) Internal Motor Protector;
- b) Internal Pressure Release Valve, Open Range (Pressure Difference Between Discharge And Suction) : 3.96—4.31Mpa

## 6. Performance Data

kW	Temp. Cond.( °C)	Temp. Evap. (°C)								
		-25	-20	-15	-10	-5	0	5	10	13
Cooling Cap.	65						17.94	21.80	26.32	29.46
	60					16.46	20.11	24.25	29.11	32.50
	55				14.73	18.18	22.03	26.42	31.59	35.22
	50			12.84	16.11	19.71	23.74	28.35	33.82	37.69
	45		10.88	13.95	17.34	21.08	25.28	30.11	35.88	39.99
	40	8.92	11.79	14.98	18.48	22.36	26.72	31.78	37.88	42.26
	35	9.70	12.67	15.96	19.58	23.60	28.15	33.47	39.95	44.64
	30	10.47	13.55	16.95	20.70	24.89	29.66	35.31	42.25	47.30
	25	11.28	14.47	18.01	21.93	26.33	31.39	37.44	44.95	50.45
Input Power	65						12.05	11.91	11.82	11.78
	60					10.69	10.54	10.42	10.35	10.32
	55				9.53	9.38	9.26	9.17	9.11	9.10
	50			8.55	8.40	8.27	8.18	8.11	8.08	8.07
	45		7.69	7.55	7.43	7.34	7.26	7.22	7.20	7.21
	40	6.91	6.80	6.69	6.60	6.53	6.48	6.46	6.46	6.47
	35	6.10	6.02	5.94	5.88	5.83	5.80	5.80	5.81	5.84
	30	5.36	5.31	5.26	5.22	5.20	5.19	5.20	5.23	5.26
	25	4.66	4.63	4.62	4.60	4.60	4.61	4.64	4.68	4.71

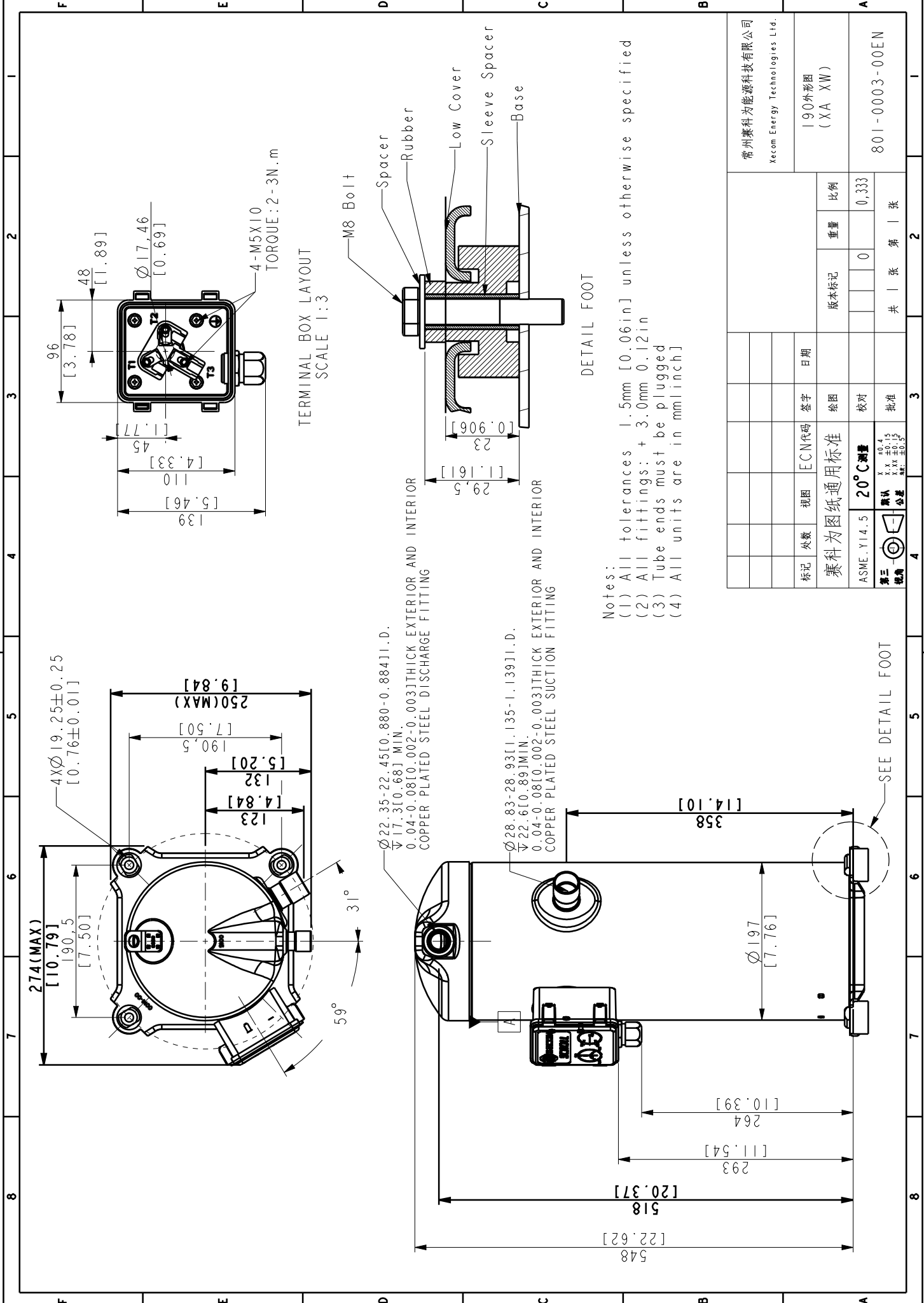
Notes: Capacity Calculation Based On SH=11.1K,SC=8.3K

## 7. Application Envelope

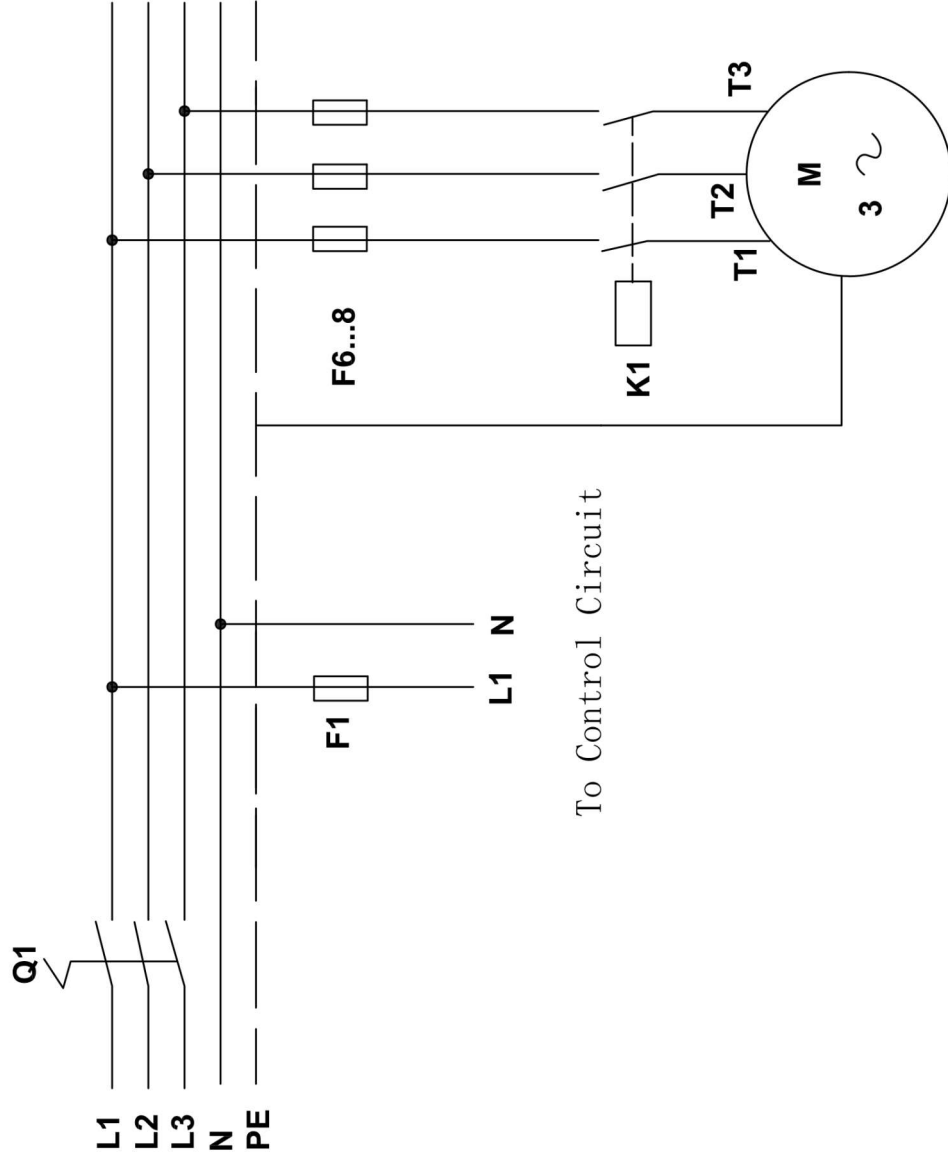


## 8. Drawing





常州赛科为能源科技有限公司 Xecom Energy Technologies Ltd.		190外形图 (XA XW)		比例	
标记	处数	视图	ECN代码	签字	日期
赛科为图纸通用标准			ECN代码	绘图	比例
ASME: Y14.5	20°C测量	ASME: Y14.5	20°C测量	校对	重量
第三版	公差	公差	公差	批准	共 1 张 第 1 张
					0
					0.333
					801-0003-00EN



Electrical Schematics

L1/L2/L3/N/PE: 3 Phase Lines (line/neutral/ground)

Q1: Manual Switch

F1/F6...8: Fuse

K1: Compressor Contactor

M: Compressor Motor

T1/T2/T3: Compressor Terminal



# General System Schematic

