XA350C-D1-100 Technical Specifications

Contents

1． Specifications

Model	XA350C-D1-100	**Power**	12HP
Displacement(m^3/h)	27.3	**Refrigerant**	R410A
Cooling Cap.(W) [a]	42656	**Input Power(W)** [a]	12916
Rated Load Amps(A) [a]	39.0	**COP** [a]	3.30
Max. Vibration(mm) [a]	<0.10	**Sound Level (dBA)** [a]	78
Test Power Source [a]	60Hz-220V	**Rated Speed （RPM）** [a]	3500
Max. Moisture (mg)	< 500	**Max. Impurity (mg)**	< 100
Oil Circulation (%) [a]	<1%	**Weight （kg，With Oil)**	56.8
Electrical Specification	Power Source	208V-230V/3Ph/60Hz	
	Run Capacitor	\	
	Min. Operation Voltage(V) [b]	187	
	Max. Operation Voltage(V)	253	
	Min. Starting Voltage(V) [c]	177	
	Lock Rotor Amps(A)	239.00	
	Max. Operation Current[d]	48.9 (A)	
	Motor Insulation Temp.(℃)	130	
Terminal Resistance (Ω) (± 10%) At 25 ℃	**T1(C)-T2(S)**	0.26	
	T2(S)-T3(R)	0.26	
	T3(R)-T1(C)	0.26	
Lubrication	**Oil Type**	POE(32cSt)	
	Initial Charge(L)	3.5	
	Recharge(L)	3	
Electrical Safety	**Insulation Voltage(V)**	2500	
	Leakage Current(mA)	≤5	
	Insulation Resistance(MΩ)	>20	
	Ground Resistance(Ω)	<0.1	
Max. Operation Pressure	**High Side(MPa)**	4.3	
	Low Side(MPa)	2.0	

Notes:

a) Test Condition: Based On Test Power Voltage，First Rated Condition;

b) Test Condition: ET 13℃，CT 65℃，SH 11.1K

c) Test Condition: Discharge/Suction Pressure Set To Refrigeration Saturation Pressure At 40℃.

d) Test Condition: ET 13℃，CT 65℃，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（℃）

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;

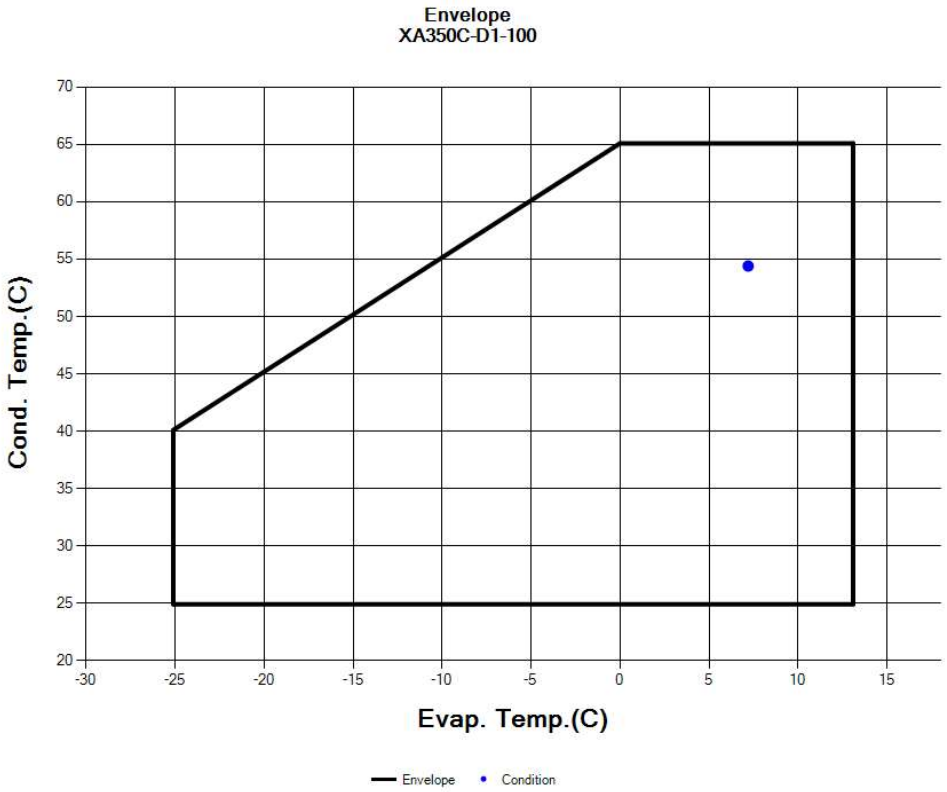
b) Internal Pressure Release Valve，Open Range（Pressure Difference Between Discharge And Suction）: 3.96—4.31Mpa

6. Performance Data

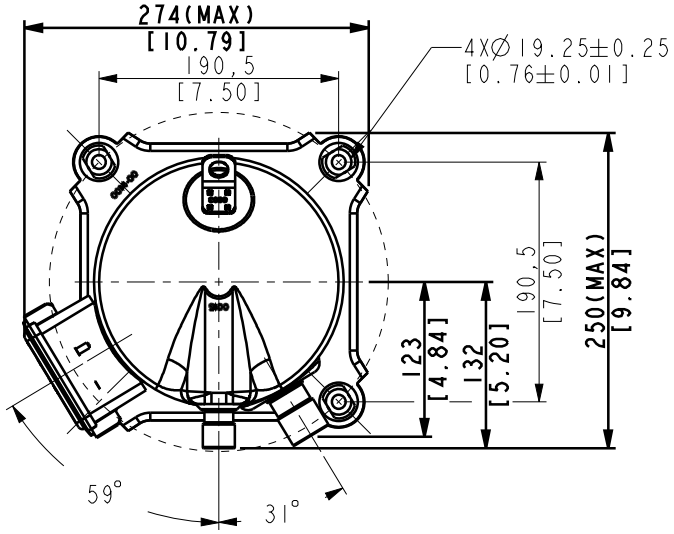
kW	Temp. Cond.(°C)	Temp. Evap. (°C)								
		-25	-20	-15	-10	-5	0	5	10	13
Cooling Cap.	65						26.53	32.25	38.93	43.57
	60					24.35	29.74	35.87	43.06	48.08
	55				21.79	26.89	32.59	39.08	46.73	52.10
	50			18.99	23.82	29.15	35.11	41.93	50.03	55.75
	45		16.09	20.64	25.65	31.19	37.39	44.53	53.08	59.15
	40	13.19	17.45	22.16	27.34	33.07	39.52	47.00	56.03	62.50
	35	14.34	18.74	23.61	28.96	34.90	41.63	49.51	59.10	66.02
	30	15.49	20.04	25.07	30.62	36.81	43.88	52.23	62.50	69.97
	25	16.68	21.41	26.64	32.43	38.94	46.44	55.38	66.49	74.62
Input Power	65						17.29	17.09	16.95	16.90
	60					15.33	15.12	14.95	14.85	14.81
	55				13.67	13.46	13.28	13.15	13.07	13.06
	50			12.26	12.05	11.87	11.73	11.63	11.59	11.58
	45		11.03	10.83	10.66	10.52	10.42	10.35	10.33	10.34
	40	9.92	9.75	9.60	9.48	9.37	9.30	9.26	9.27	9.29
	35	8.75	8.63	8.52	8.44	8.37	8.33	8.32	8.34	8.37
	30	7.69	7.61	7.55	7.50	7.46	7.45	7.46	7.50	7.55
	25	6.68	6.65	6.62	6.61	6.60	6.62	6.65	6.71	6.76

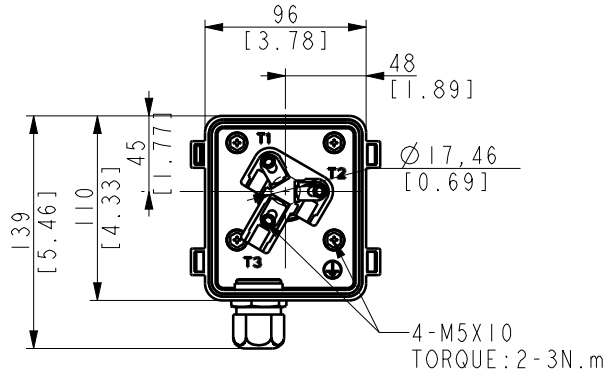
Notes: Capacity Calculation Based On SH=11.1K,SC=8.3K

7. Application Envelope

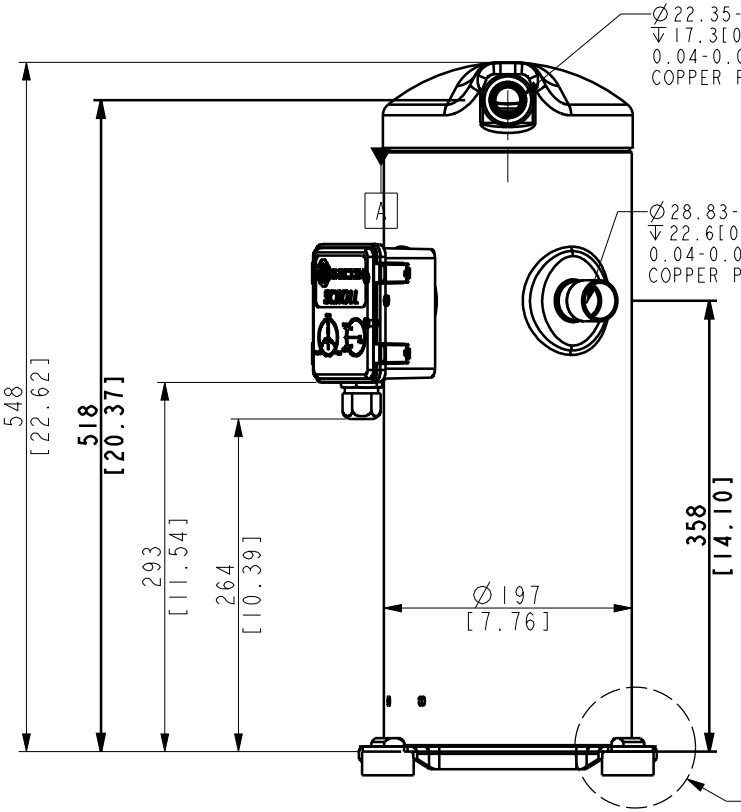


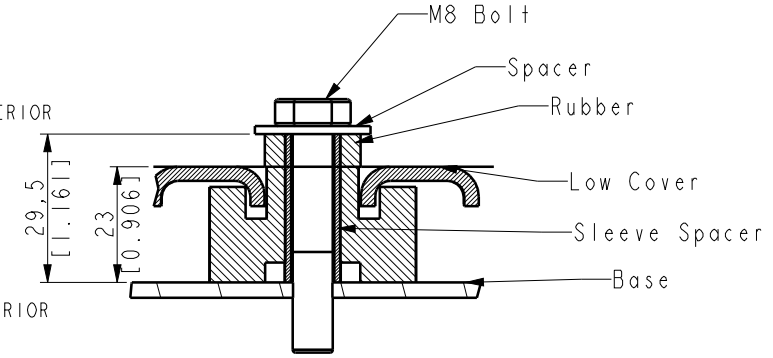
8. Drawing





TERMINAL BOX LAYOUT
SCALE 1:3

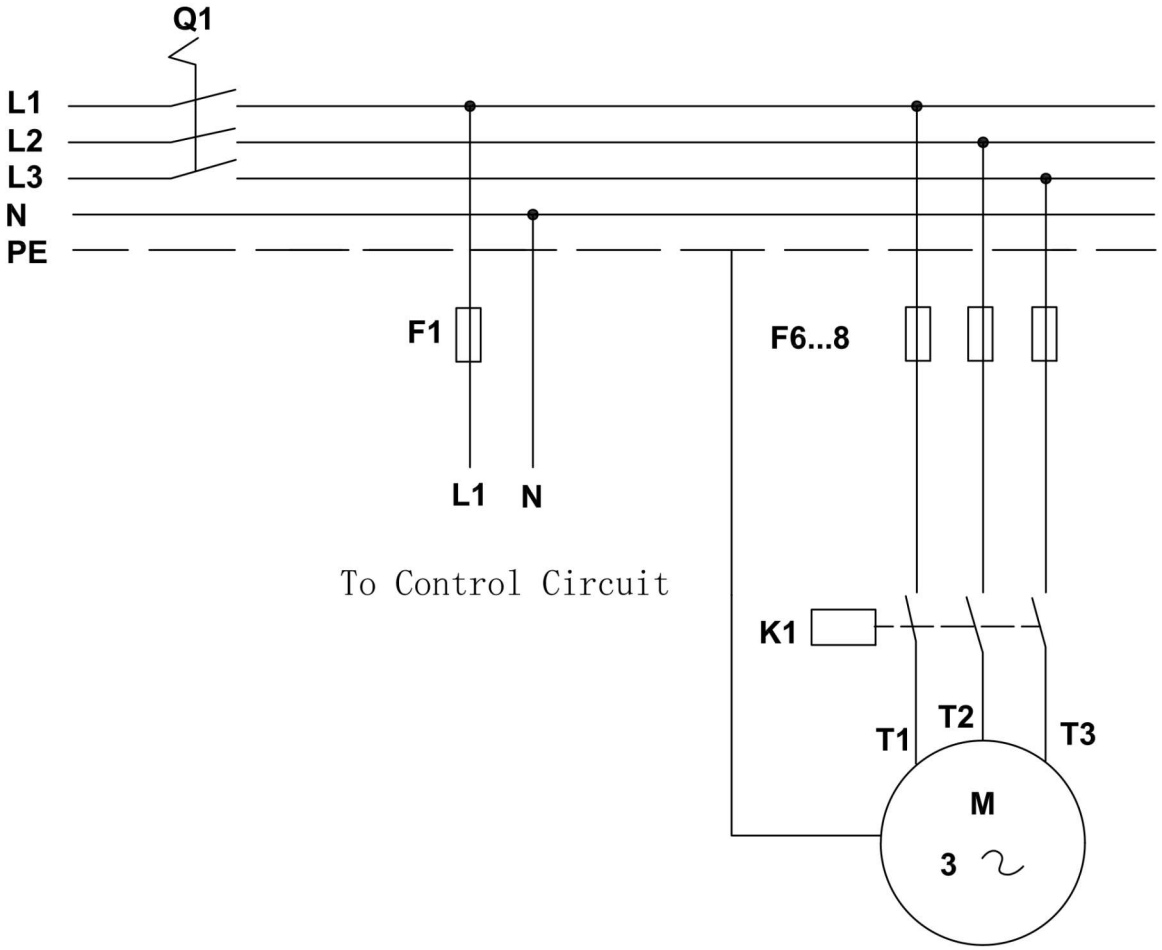




DETAIL FOOT

Notes:
(1) All tolerances 1.5mm [0.06in] unless otherwise specified
(2) All fittings: + 3.0mm 0.12in
(3) Tube ends must be plugged
(4) All units are in mm[inch]

标记	处数	视图	ECN代码	签字	日期	常州赛科为能源科技有限公司 Xecom Energy Technologies Ltd.	
赛科为图纸通用标准				绘图		版本标记 / 重量 / 比例	190外形图 (XA XW)
ASME.Y14.5		20°C测量		校对		0 / 0,333	801-0003-00EN
第三视角		默认公差	X ±0.4 X.X ±0.15 X.XX ±0.15 角度: ±0.5°	批准		共 1 张 第 1 张	



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