

SPEC NO : QAHGC012

DATE JAN.30.2013

REV. : 00

FOR APPROVAL

SPECIFICATION OF HERMETIC COMPRESSOR

MODEL NO. K2-C262GEFC-F

Attached Accessories

1.Refrigerant Oil

Charged

2.Electrical Components

Thermo-state

1 pce/set

Terminal cover

1 pce/set

Packing

1 pce/set

Packing

1 pce/set

Holder

1 pce/set

Flange nut

1 pce/set

3.Mounting components

Rubber mount

3 pcs/set

CUSTOMER
APPROVAL

THE SPECIFICATION FOR K2-C262GEFC-F COMPRESSOR

2013.01.30

文管中心

General specification

TCSM 002

1.Application

Evaporating temp. range

-10~+15°C

Refrigerant

R22 (CHClF₂) , 1.30Kg max.

2.Compressor data

Outline dwg.

DA100D095

Design

Rolling piston type rotary

Displacement

26.2 cc/rev.

Number of cylinder

1

Oil charge

4GSD 400 c.c.

Weight

17.0 kgws.

3.Performance

Performance curve

TCC162

Refrigerating capacity

5220/5310 W ± 5%

Current

8.75/8.07 A ± 5%

Motor input

1800/1820 W ± 5%

Notes:Conditions

Evaporating temp.

7.2 °C (45 °F)

Condensing temp.

54.4°C (130 °F)

Return gas temp.

35.0°C (95 °F)

Ambient temp.

35.0°C (95 °F)

Liquid temp.

46.1°C (115 °F)

4.Motor data

Wiring diagram

DA200D002

Motor type

Permanent split capacitor

Output

1500 W

Rated voltage

208V/230 V

Rated frequency

60 Hz

Phase

Single

Locked rotor current

43.0 A ± 5% (at 230V)

Motor resistance (at 20°C)

Main winding 1.30 Ω ± 5%

Aux. winding 2.54 Ω ± 5%

Insulation class

E

5.Electrical components

Motor protector

MRA12078-9054 DA205D025 (23)

※Running capacitor

35μF 440 VAC

6.Terminal parts accessories

Terminal part assy

DA400D041

Terminal cover

1 pce.

DA405Q001

Protector holder

1 pce.

DA406D035

Packing

1 pce.

DA408D043

Packing

1 pce.

DA408D031

Flange nut

1 pce.

DA904D025

7.Mounting accessories

Compr. mounting

DA300D003

Rubber mount

3 pcs.

DA306D011

8.Optional parts

Nameplate

1 pce.

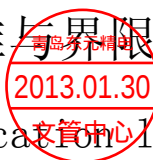
DA912D045

※The product recognized by International Safety-standard is recommended.

TCSC083

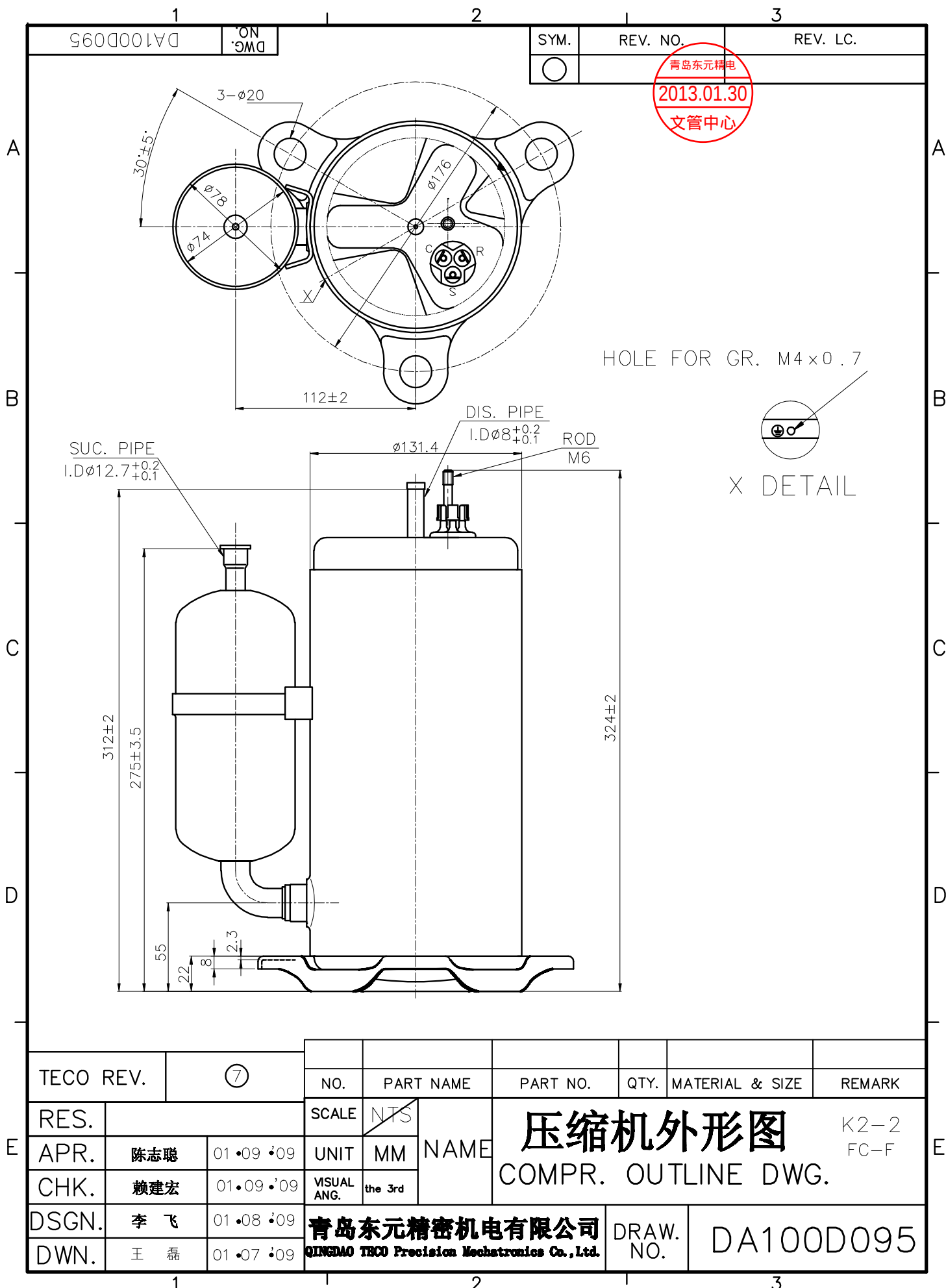
Rev.03

K1、K2、K0系列压缩机使用基准与界限



K1, K2、K0 series rotary compressor application limitations

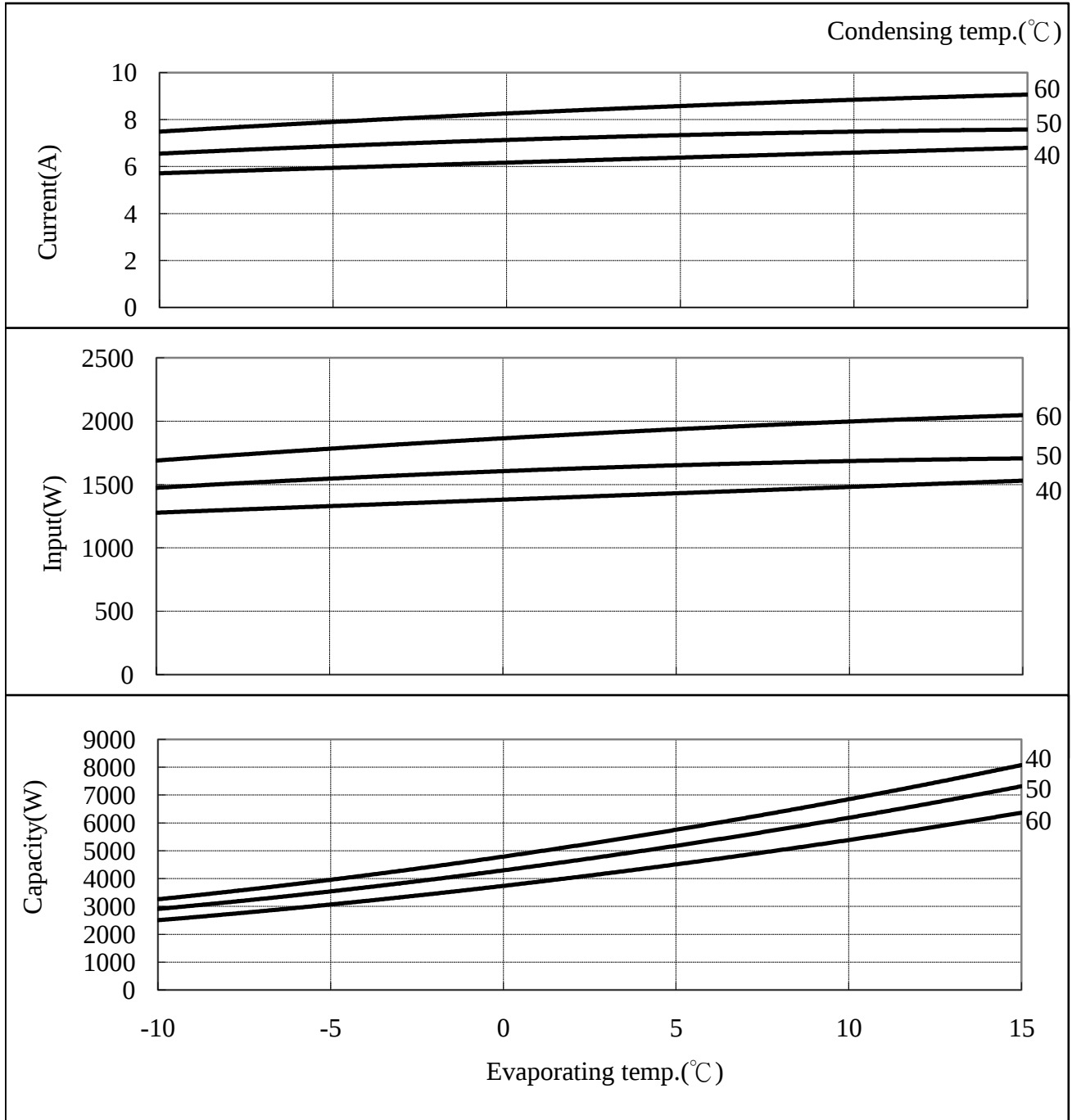
No.	项目 Item	标准条件 Standard condition	过载条件 Overload Condition	备注 Remarks
1	使用冷媒 Refrigerant	R22(使用冷媒质量, 适用JIS K1519规范)		
2	蒸发温度范围 Evaporating	-10~+15℃ (2.61~7.05kg/cm ² G)	-20℃以上 (1.5kg/cm ² G MIN)	
3	凝缩温度范围 Condensing	+28~+65℃ (10.5~26.51kg/cm ² G)	+68℃以下 (28kg/cm ² G MAX)	压缩机设计压力30kg/cm ² G The design pressure for our compressor is 30kg/cm ² G
4	压缩比 Compressing ratio	6以下 6MAX	8以下 8MAX	
5	马达线圈温度 Motor coil temperature	100℃以下 100℃MAX	125℃以下 125℃MAX	
6	压缩机底壳温度 Comp. bottom temp.	100℃以下 100℃MAX		
7	排出气体温度 Dis. gas temp.	100℃以下 100℃MAX	115℃以下 115℃MAX	排放管量测 measured at dis. pipe
8	吸入气体温度 Suc. gas temp.	吸入气体过热度+2℃以上 Superheat must be over +2℃	不可发生吸入液体之回流 No liquid-back	
9	供应电压 Voltage range	额定电压±10%以内 Rated voltage ±10%		压缩机端子电压 measured at comp. terminal
10	供应频率 Frequency range	额定频率±2%以内 Rated frequency ±2%		
11	ON-OFF频率 ON-OFF Cycle	每循环3分钟以上运转, 3分钟以上停止 3 min-ON, 3 min-OFF/cycle at least.		
12	冷媒充填 Refrigerant charging	冷冻油/冷媒之重量比, 需保持在0.4以上。 液态充填冷媒, 当系统有泄漏时, 需完全排放后重新充填。 The weight ratio of oil to refrigerant must be over 0.4. The refrigerant must be charged in liquid state.No additional charge before total discharge while system leaks.		冷冻油密度: 0.877g/cm ³ The density of the oil charged is 0.877g/cm ³ .
13	最低起动电压 Minimum starting voltage	1. 0.8E, 额定电压0.8倍. Rated voltage*0.8. 2. 环境温度20~35℃. Ambient temp. 20~35℃. 3. 高/低压力平衡. Balanced pressure.		
14	压缩机内油面 Oil level	稳定运转时, 油面需高于汽缸下缘5mm. At steady state, oil level must be 5mm above the bottom of cylinder.		
15	异常压力上升Abnormal pressure raising	40 Kg/mm ² G以下 40 Kg/mm ² G MAX		冷却风扇停止时 Fan-block condition
16	配管应力(铜管) Allowable stress of tube (Copper tube)	起动、停止及运输时: 3.0 Kg/mm ² G以下 starting, stopping and transportation: 3.0 Kgf/mm ² G MAX.		
		运转时: 2.0 Kg/mm ² G以下 operating: 2.0 Kgf/mm ² G MAX.		
17	水分 Residual moisture	系统中的水分需在100mg以下 100 mg MAX.		
18	真空度 Vacuum Pressure	系统真空度需在0.35mmHg以下 The vacuum pressure in system must be less than 0.35mmHg.		
19	倾斜 Tilt in operating	安装于系统时, 压缩机的倾斜度需在5° 以内 The compressor incline angle must be less than 5° .		
20	橡皮塞拔除 Rubber remove	橡皮塞需从排放管侧先拔除, 橡皮塞拔除后压缩机需于10分钟内安装于系统 The compressor should be installed in 10 minutes after rubber removed.		避免冷冻油喷出以及水分、杂质入侵 Avoid the oil loss and foreign body in.
21	储存 Storage	压缩机需储存于室内, 避免日晒雨淋, 环境温度-10~+65℃ The compressor should be indoor storage and the ambient temperature is between -10 to +65℃ to avoid poor climate.		



K2-C262GE Performance Curve

Rating condition : 11 deg. return gas superheated
 8.3 deg. liquid subcooled
 35 deg. ambient ; forced air flow

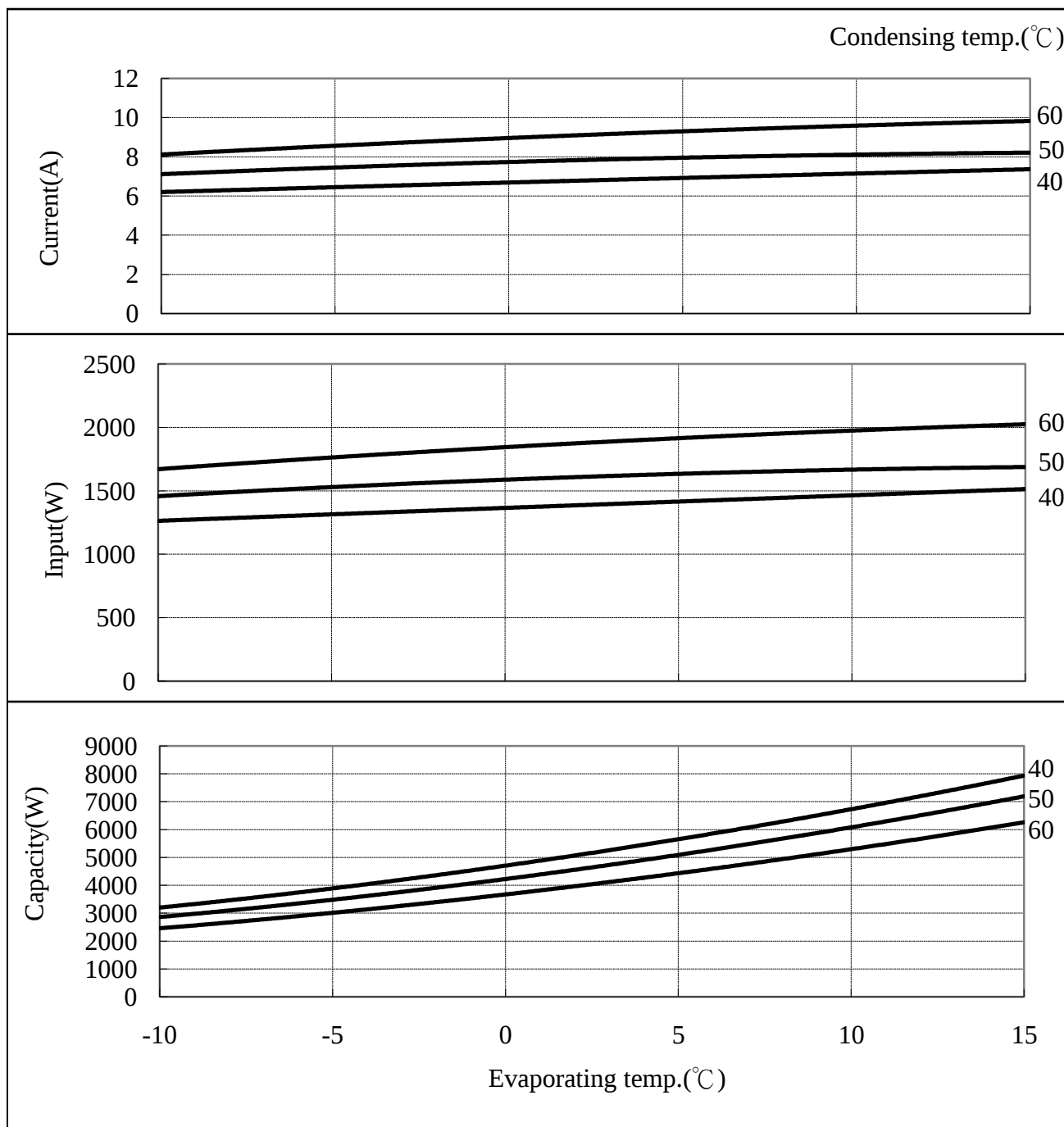
1 ϕ 230V 60Hz

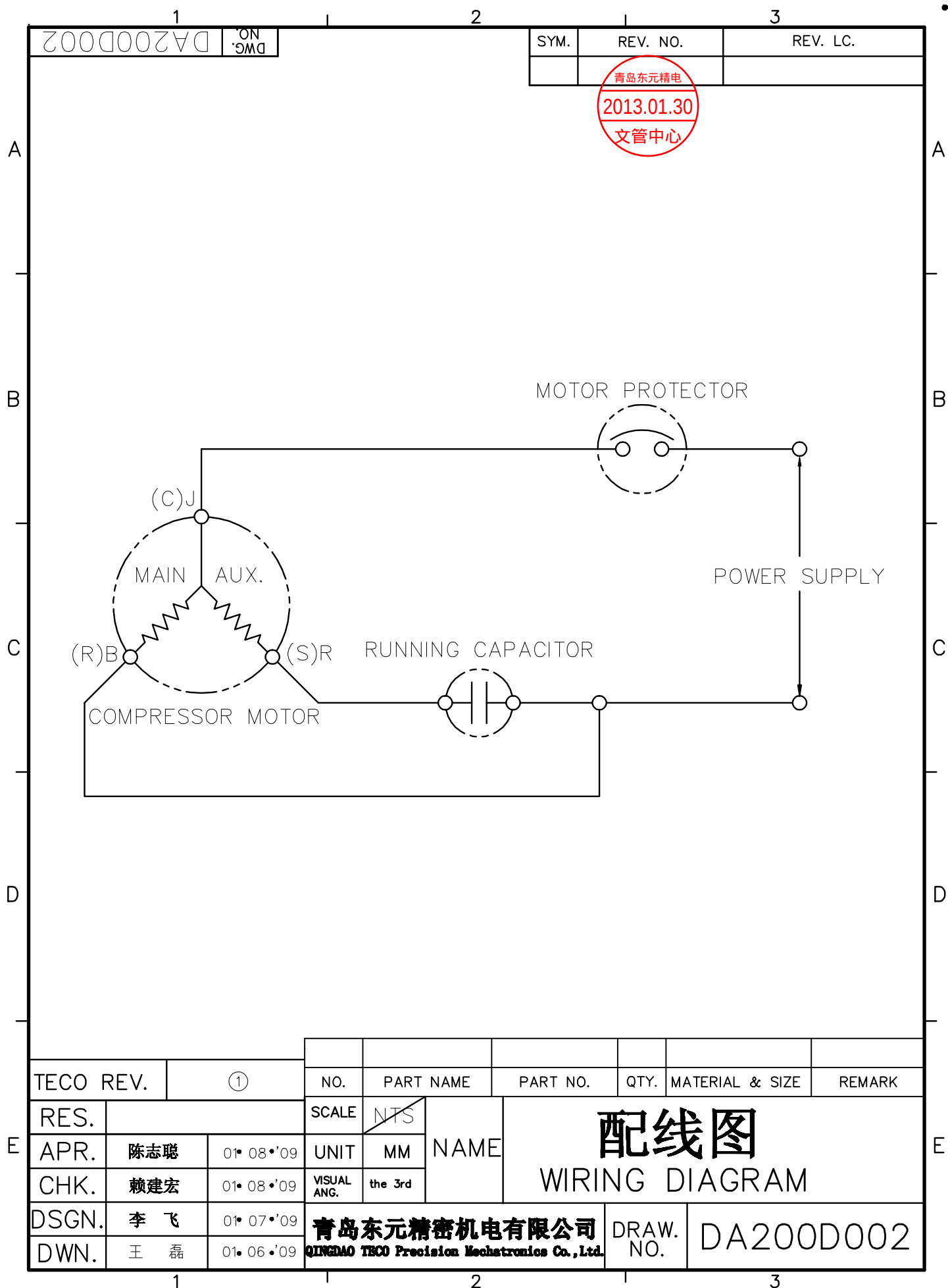


K2-C262GE Performance Curve

Rating condition : 11 deg. return gas superheated
8.3 deg. liquid subcooled
35 deg. ambient ; forced air flow

1 ϕ 208V 60Hz



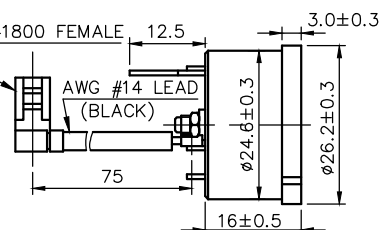
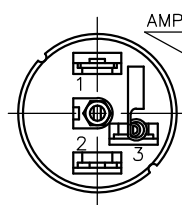
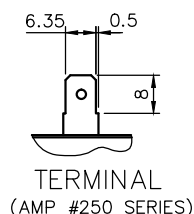
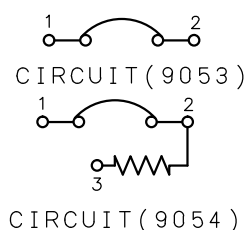


1	2	3
5Z0D90ZV0	台 图	版数
DA205D025	设 变 单 号	设 变 位 置
⑧	QYQ12012M	青岛东元精密电
		2013.01.30
		文管中心
		未标示之尺寸公差 (CNS标准)
		铁铸件 精级 粗级
		机械切削 精级 中级 粗级
		冲 压 精级 中级 粗级
		金属烧结 精级 中级 粗级

注：1. 电木底盖需盖紧，以不影响动作特性
及外观尺寸，其形状不予限制。

1.THE O.L.P. BOTTOM COVER SHOULD BE TIGHTLY FASTENED AND SHOULD NOT AFFECT ITS PERFORMANCE CHARACTERISTICS AND OUTLIN SPECIFICATIONS,BUT THE SHAPE IS NOT RESTRICTED.

ITEM	TYPE	OVERL TRIP CURRENT (@100℃) A±15%	LOCKED TRIP CURRENT(@25℃) A sec	OPEN TEMP. ℃	CLOSE TEMP. ℃	
01	MRA99069-9054	5.5	14.5 6~16	150± 7	80±11	
02	MRA99070-9053	10.3	23.5 6~16	155± 5	80±11	
03	MRA99071-9054	6.0	14.5 6~16	150± 7	75±11	
04	MRA99072-9053	14.0	26.0 6~16	160± 7	85±11	
05	MRA99073-9053	13.0	24.5 6~16	160±10	85±11	
06	MRA99074-9053	8.0	20.0 6~16	135± 7	70±11	
07	MRA99075-9053	9.0	20.0 6~16	140± 7	80±11	
08	MRA99076-9053	17.0	32.5 6~16	165±10	85±11	
09	MRA99077-9053	24.0	45.0 6~16	165±10	85±11	
10	MRA99083-9053	9.8	18.0 6~16	160±10	80±11	
11	MRA99084-9054	10.7	24.0 6~16	165±10	80±11	
12	MRA99085-9053	16.6	32.0 6~16	160±10	80±11	
13	MRA99086-9054	8.7	18.0 6~16	155±10	75±11	
14	MRA98881-9053	13.4	25.0 6~16	150±10	70±11	
15	MRA99091-9053	17.5	41.0 6~16	165± 7	90±11	
16	MRA99093-9053	6.8	14.0 6~16	140± 7	75±11	
17	MRA99232-9054	3.75(90℃)	12.5 6~16	140± 5	69±9	
18	MRA99245-9054	7.8	17.5 6~16	155± 5	70±11	
19	MRA99246-9054	7.7	17.5 6~16	155± 5	70±11	
20	MRA99255-9054	6.6	15.0 6~16	160± 5	70±11	
22	MRA12075-9053	14.0	26.0 6~16	160± 5	69±11	
23	MRA12078-9054	11.2	32.0 6~16	155± 7	69±11	
24	MRA12077-9054	7.7	17.0 6~16	155± 7	60±11	
25	MRA98965-9053	17(80℃)	31.5 6~16	160± 5	70±9	
26	MRA99866-9054	6.8	21.5 6~16	145± 5	60±11	
27	MRA12358-9054	4.1(90℃)	11.5 6~16	165± 5	69±9	
28	MRA12363-9053	13.4(100℃)	28 6~16	155± 5	69±9	
29	MRA12393-9053	8.1	17.5 6~16	160± 5	69±9	
30	MRA12410-9053	16.5	43 6~16	160± 5	69±9	
⑧ 31	MRA12423-9053	14	35.5 6~16	160± 5	69±9	



台湾东元版本号	⑮	项	件	名	件	号	件数	材质	尺	寸	重量	备注
规范	35012C149	比例	NTS	图	马达保护器							
核定	廖志勇	05.18.12	单位	MM								
审查	王磊	05.19.12	视角	第三视角	MOTOR PROTECTOR							
校对			青岛东元精密机电有限公司					设	图号	DA205D025		
制图	肖莹莹	05.18.12										

E

1		2		3	
1000050001		DWG. NO.		SYM.	
				REV. NO.	
				REV. LC.	

青岛东元机电
 2013.01.30
 文管中心

1. COLOR: BLACK

2. THE MATERIAL MUST BE HARD TO IGNITE (130~140℃), HEAT PROOF: NO LESS THAN 120℃.

3. INSULATION RESISTANCE: 30MΩ OR MORE AT D.C. 500V

4. VOLTAGE DURABILITY TEST: AT LEAST 1800V-SEC, OR 1500V-MIN.

SECTION AA

注: 1. 颜色: 黑色。

2. 难燃性材质 (130~140° C), 耐热性120° 以上。

3. 绝缘测试:
以DC500V绝缘抵抗须在30MΩ以上。

4. 耐压测试:
1500V-min, 1800V-sec合格。

SECTION BB

TECO REV.						PC500		t3.0	
		NO.		PART NAME		PART NO.		QTY.	
						MATERIAL & SIZE		REMARK	
RES.		35015Q001		SCALE		NTS		端子盖 K (UL) TERMINAL COVER	
APR.		陈志聪 04-29-10		UNIT		MM			
CHK.		. .		VISUAL ANG.		the 3rd			
DSGN.		李 飞 04-28-10		青岛东元精密机电有限公司 QINGDAO TECO Precision Mechatronics Co., Ltd.				DRAW. NO.	
DWN.		李 丽 04-27-10						DA405Q001	

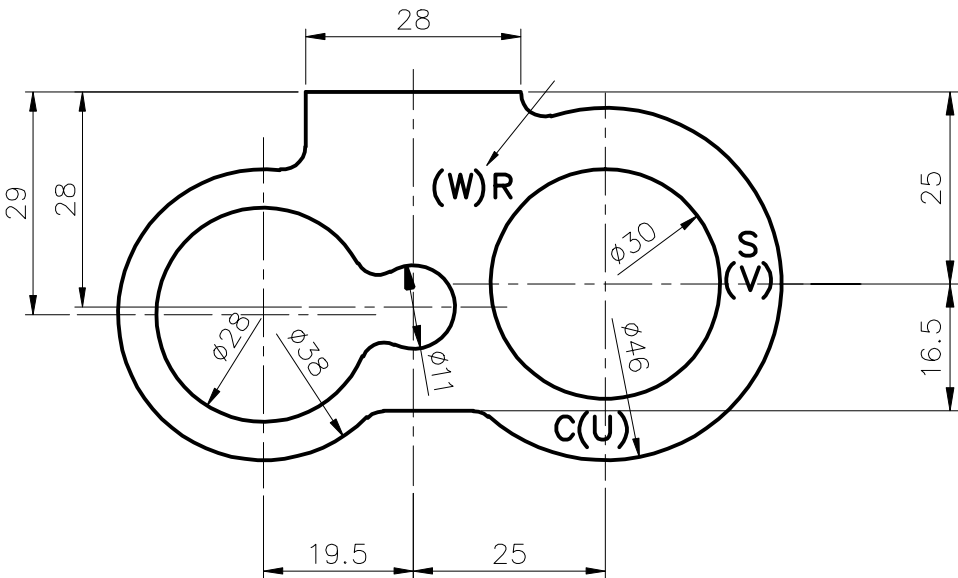
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DA406D035		DWG. NO.		SYM.	REV. NO.	REV. LC.	
						青岛东元机电 2013.01.30 文管中心	
A							A
B							B
C							C
D							D
E							E

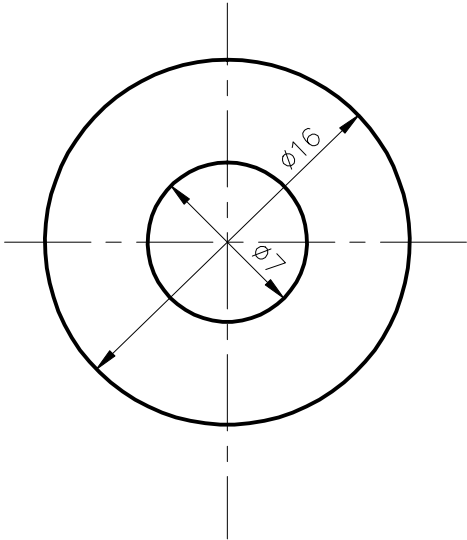
TECO REV.		③	NO.		PART NAME		PART NO.		QTY.		MATERIAL & SIZE		REMARK	
RES.	35014D320		SCALE	NTS	NAME		保护器固定座 ^K PROTEC HOLDER							
APR.	陈志聪	01.09.09	UNIT	MM	NAME									
CHK.	赖建宏	01.09.09	VISUAL ANG.	the 3rd	NAME									
DSGN.	李 飞	01.08.09	青岛东元精密机电有限公司				DRAW. NO.		DA406D035					
DWN.	王 磊	01.07.09	QINGDAO TECO Precision Mechatronics Co., Ltd.				DRAW. NO.		DA406D035					

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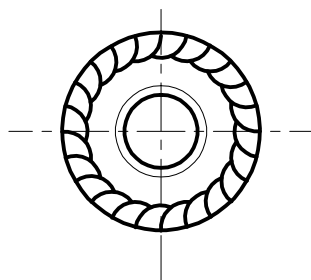
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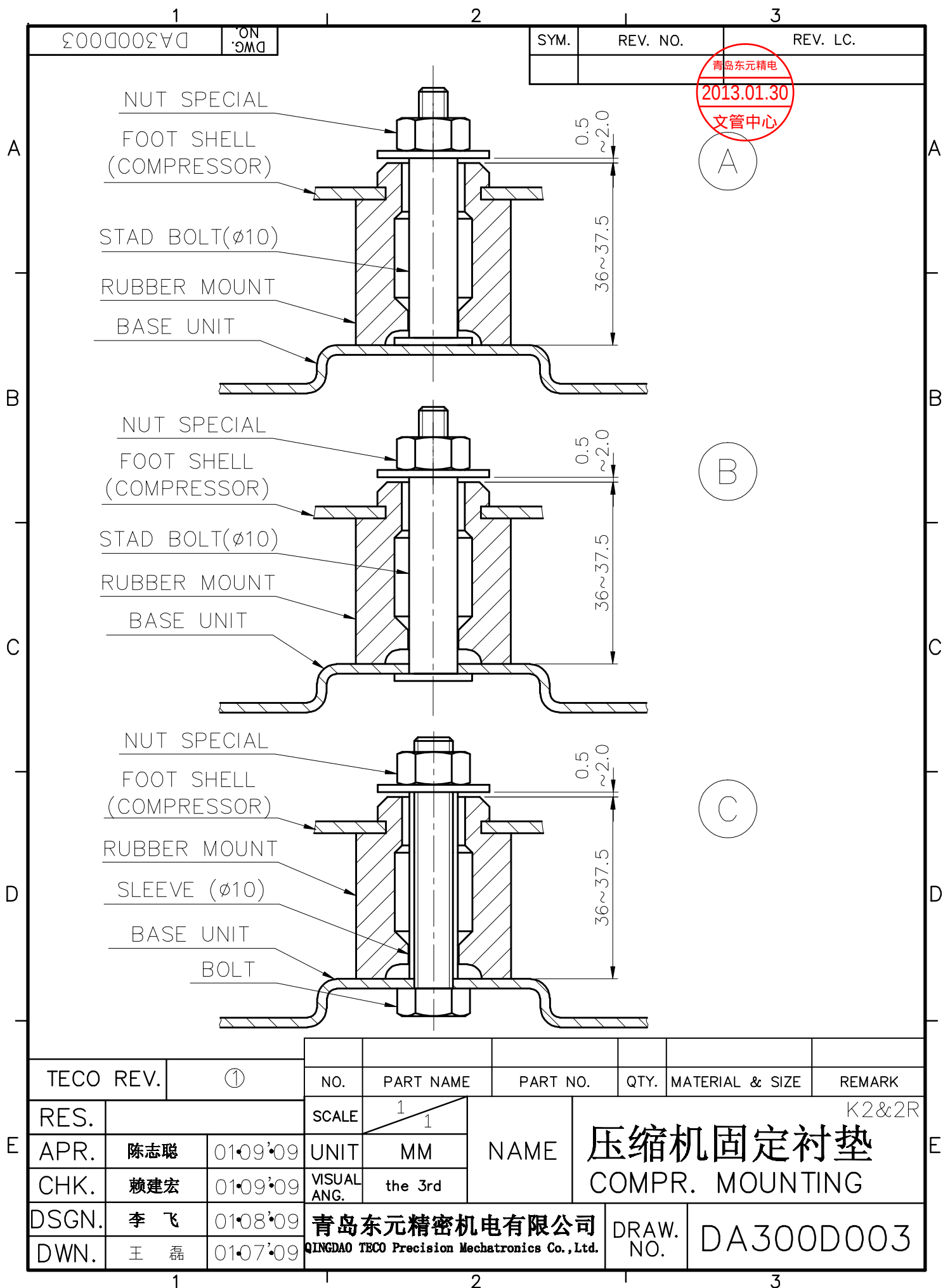
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DA408D043		DWG. NO.		SYM.																																																							
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B	注：1. 颜色：黑色。 2. 难燃性材质(145-160° C). 3. 绝缘测试： 以D. C. 500V绝缘抵抗须在30MΩ以上。 4. 耐压测试： 1200V-min, 1800C-sec合格。 5. 硬度：Hs70±5.					B																																																					
C	1. COLOR: BLACK 2. THE MATERIAL MUST BE HARD TO IGNITE (145~160℃). 3. INSULATION RESISTANCE: 30MΩ OR MORE AT D. C. 500V 4. VOLTAGE DURABILITY TEST: AT LEAST 1800V-SEC, OR 1200V-MIN. 5. HARDNESS HS: 70±5.					C																																																					
D						D																																																					
E	<table><tr><td colspan="2">TECO REV.</td><td>③</td><td colspan="2">NO.</td><td>PART NAME</td><td>PART NO.</td><td>QTY.</td><td>EPT T1.5</td><td>REMARK</td></tr><tr><td>RES.</td><td colspan="2">35023D553</td><td>SCALE</td><td>1/1</td><td rowspan="3">NAME</td><td colspan="4" rowspan="3">衬垫 PACKING</td><td rowspan="3">K</td></tr><tr><td>APR.</td><td>陈志聪</td><td>01·09·09</td><td>UNIT</td><td>MM</td></tr><tr><td>CHK.</td><td>赖建宏</td><td>01·09·09</td><td>VISUAL ANG.</td><td>the 3rd</td></tr><tr><td>DSGN.</td><td>李飞</td><td>01·08·09</td><td colspan="3">青島東元精密机电有限公司</td><td>DRAW. NO.</td><td colspan="4">DA408D043</td></tr><tr><td>DWN.</td><td>王磊</td><td>01·07·09</td><td colspan="3">QINGDAO TECO Precision Mechatronics Co., Ltd</td><td></td><td colspan="4"></td></tr></table>					TECO REV.		③	NO.		PART NAME	PART NO.	QTY.	EPT T1.5	REMARK	RES.	35023D553		SCALE	1/1	NAME	衬垫 PACKING				K	APR.	陈志聪	01·09·09	UNIT	MM	CHK.	赖建宏	01·09·09	VISUAL ANG.	the 3rd	DSGN.	李飞	01·08·09	青島東元精密机电有限公司			DRAW. NO.	DA408D043				DWN.	王磊	01·07·09	QINGDAO TECO Precision Mechatronics Co., Ltd								E
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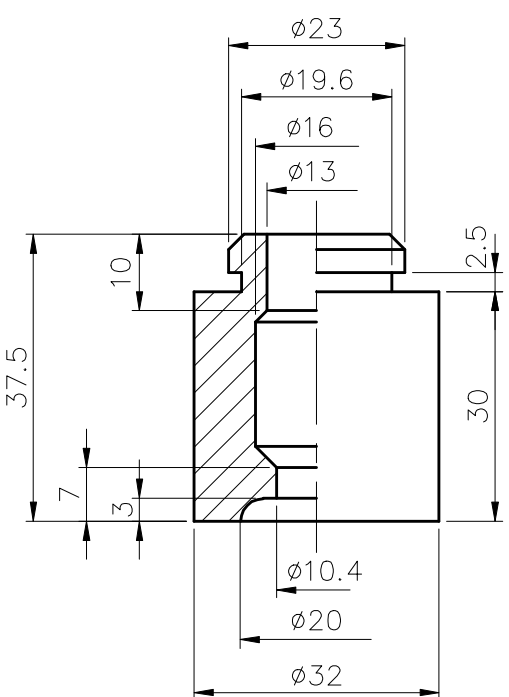
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DA408D031		DWG. NO.		SYM.	
				REV. NO.	
				REV. LC.	
				2013.01.30	
				文管中心	
注: 1. 材质为耐燃性 (145~160° C).					
1. THE MATERIAL MUST BE					
HARD TO IGNITE (145~160°C).					
					
TECO REV.		②		EPT T1.5	
RES. 35023D254		NO.		PART NAME	
APR. 陈志聪		UNIT		PART NO.	
CHK. 赖建宏		VISUAL ANG.		QTY.	
DSGN. 李飞		SCALE		MATERIAL & SIZE	
DWN. 王磊		NTS		REMARK	
		MM		the 3rd	
		NAME		衬 垫	
		PACKING			
		青岛东元精密机电有限公司		DRAW. NO.	
		QINGDAO TECO Precision Mechatronics Co., Ltd.		DA408D031	
1		2		3	
E		E		E	

1.SURFACE WITH NICKELIZING (Cr^{+3}) TREATMENT.



TECO REV.			③		NO.	PART NAME	PART NO.	QTY.	MATERIAL & SIZE	REMARK
RES.					SCALE		NAME	凸缘螺帽 FLANGE NUT		
APR.	陈志聪	01·09'09	UNIT	MM						
CHK.	赖建宏	01·09'09	VISUAL ANG.	the 3rd						
DSGN.	李 飞	01·08'09	青 岛 东 元 精 密 机 电 有 限 公 司					DRAW. NO.	DA904D025	
DWN.	王 磊	01·07·09	QINGDAO TECO Precision Mechatronics Co.,Ltd.							



1			2			3												
DWG. NO. DA306D011			SYM.			REV. NO.		REV. LC.										
						青岛东元机电												
						2013.01.30												
						文管中心												
A	注: 1. 难燃性材质, 颜色为黑色, 硬度Hs38. NOTE: 1. THE MATERIAL MUST BE HARD TO IGNITE. COLOR: BLACK HARDNESS: Hs38									A								
B										B								
C										C								
D										D								
E	TECO REV.		②		NO.		PART NAME		PART NO.		QTY.		EPDM		MATERIAL & SIZE		REMARK	
	RES.		35017D255		SCALE		1/1		NAME		橡皮座		K2					
	APR.		陈志聪		01.09.09		UNIT		MM									
	CHK.		赖建宏		01.09.09		VISUAL ANG.		the 3rd									
	DSGN.		李 飞		01.08.09		青 岛 东 元 精 密 机 电 有 限 公 司		DRAW. NO.		DA306D011							
	DWN.		王 磊		01.07.09		QINGDAO TECO Precision Mechatronics Co., Ltd.											
	1						2				3							

1			2			3					
S70DZ16VD			ON GMD			SYM.		REV. NO.		REV. LC.	
注：1. 颜色采白底黑字。						②		QYQ1025M		(2,D)	
2. 此件须耐温125℃以上。								2013.01.30			
3. 制造编号：			1 2 3 4 5 6 7 8 9					文管中心			
年 (1994→4)											
月 (01, 02. . . 11, 12)											
流水号											
4. 材质为POLYESTER FILM, 厚为0.05.											
NOTES: 1.WORDS ARE BLACK WITH WHITE BACKGROUND.											
2.HEAT DURABILITY MUST EXCEED 125℃.											
3.SERIAL NO.:											
1 2 3 4 5 6 7 8 9											
YEAR(1994→4)											
MONTH(01, 02. . . 11, 12)											
CONTINUOUS NO.											
4.MATERIAL:POLYESTER FILM											
THICKNESS:0.05.											
频率 FREQUENCY 66 输入 INPUT 电压 VOLTAGE 交流电符号 AC SOURCE 制冷剂代号 REFRIGERANT 检验合格 INSPECTION O.K. 认证标志 (3C、UL、VPC. . 等) RECOGNIZED MARK 公司名称及产地 机种型名 NAME 电源相 PHASE 拘束电流 LOCKED CURRENT 制造编号 (注3) SERIAL NO. 机种型名 NAME MADE BY ② PH Hz V OK RoHS 408000001 WARNING/DANGER FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS PERSONAL INJURY. 1.FOLLOW THE RECOGNIZED SAFETY PROCEDURES AND WEAR PROTECTIVE GOOGLES WHEN SERVICING THIS COMPRESSOR. 2.THE COMPRESSOR OR SYSTEM MUST BE GROUNDED. 3.DO NOT OPERATE OR PROVIDE ANY ELECTRIC POWER TO THIS UNIT UNLESS THE TERMINAL COVER IS IN PLACE AND SECURED. 4.DO NOT REMOVE THE TERMINAL COVER UNTIL ALL ELECTRICAL SOURCES HAVE BEEN DISCONNECTED. THERMALLY PROTECTED 408000001 MADE BY ②											
TECO REV.			①			NO.		PART NAME		PART NO.	
RES.			35970H003			SCALE		NTS			
APR.			陈志聪			UNIT		MM		NAME	
CHK.			廖志勇			VISUAL ANG.		the 3rd			
DSGN.			李 飞			08.29.'11		青岛东元精密机电有限公司		DRAW. NO.	
DWN.			肖莹莹			08.29.'11		QINGDAO TECO Precision Mechatronics Co.,Ltd.		DA912D045	