

SPEC NO. QAHGC008

DATE : MAR.25.2011

FOR APPROVAL

SPECIFICATION OF HERMETIC COMPRESSOR

MODEL NO. K2-C340GETE-H

Attached Accessories

1.Refrigerant Oil

Charged

2.Electrical Components

Motor protector

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-C340GETE-H COMPRESSOR



General specification	TCSM 002	
1.Application		
Evaporating temp. range	-10~+15°C	
Refrigerant	R22 (CHClF2)	1.4Kg Max.
2.Compressor data		
Outline dwg.	DA100D101	
Design	Rolling piston type rotary	
Displacement	34.0 cc/rev.	
Number of cylinder	1	
Oil charge	4GSD	400 cc
Weight	17.2 kgws.	
3.Performance		
Performance curve	TCC201	
Refrigerating capacity	6920/7010 W ± 5%	
Current	11.3/10.6 A ± 5%	
Motor input	2310/2330 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	2000 W	
Rated voltage	208/230 V	
Rated frequency	60 Hz	
Phase	Single	
Locked rotor current	55.5 A ± 5% (at 230V)	
Motor resistance (at 20°C)	Main winding 1.07 Ω ± 5%	
	Aux. winding 2.22 Ω ± 5%	
Insulation class	E	
5.Electrical components		
Motor protector	T0580/46	DA205D035 (08)
	or B410-155-141E	DA205D041 (05)
※Running capacitor	40μF 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

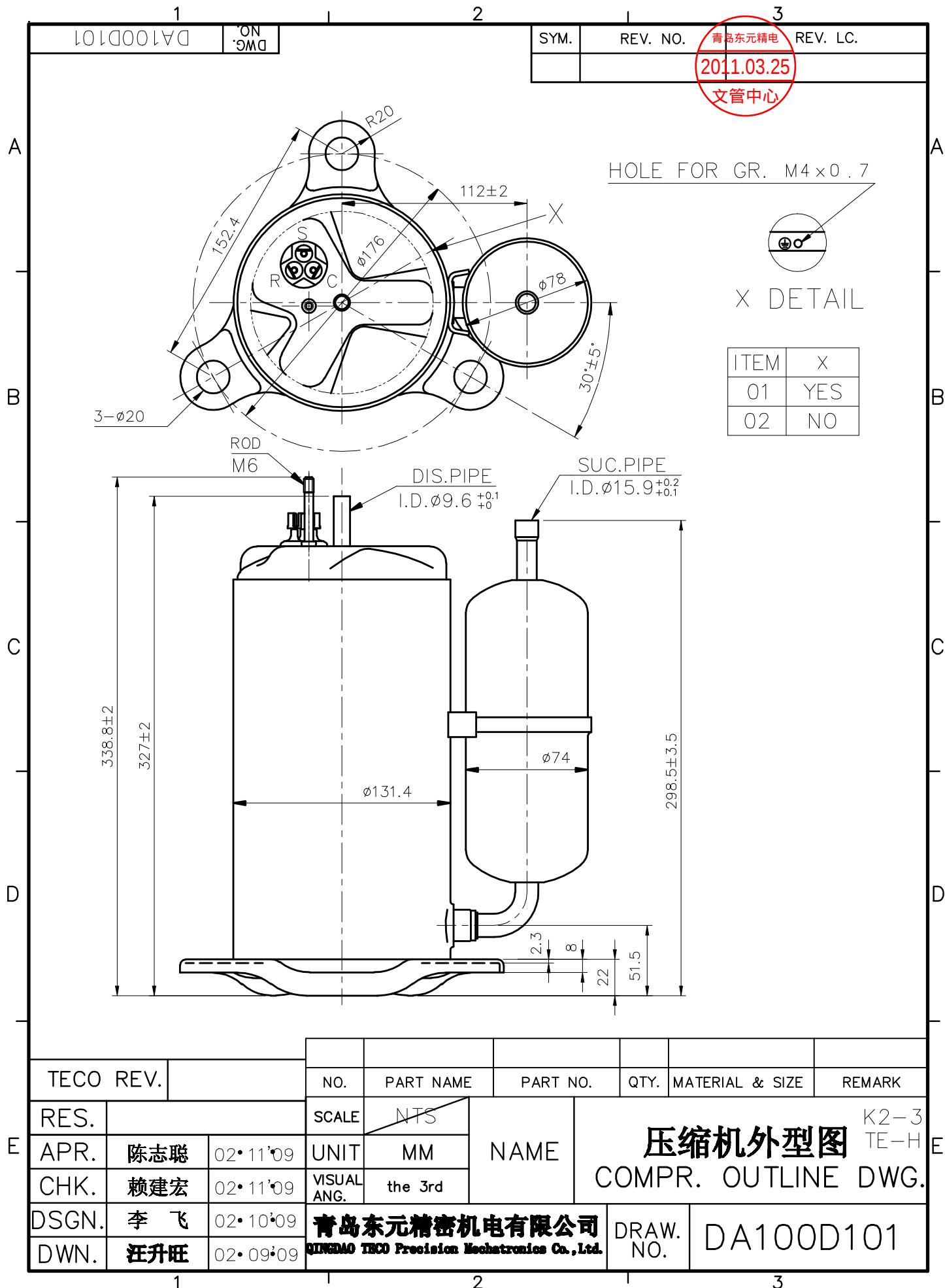
※The product recognized by International Safety-standard is recommended.

K1、K2系列压缩机使用基准与界限



K1, K2 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.		

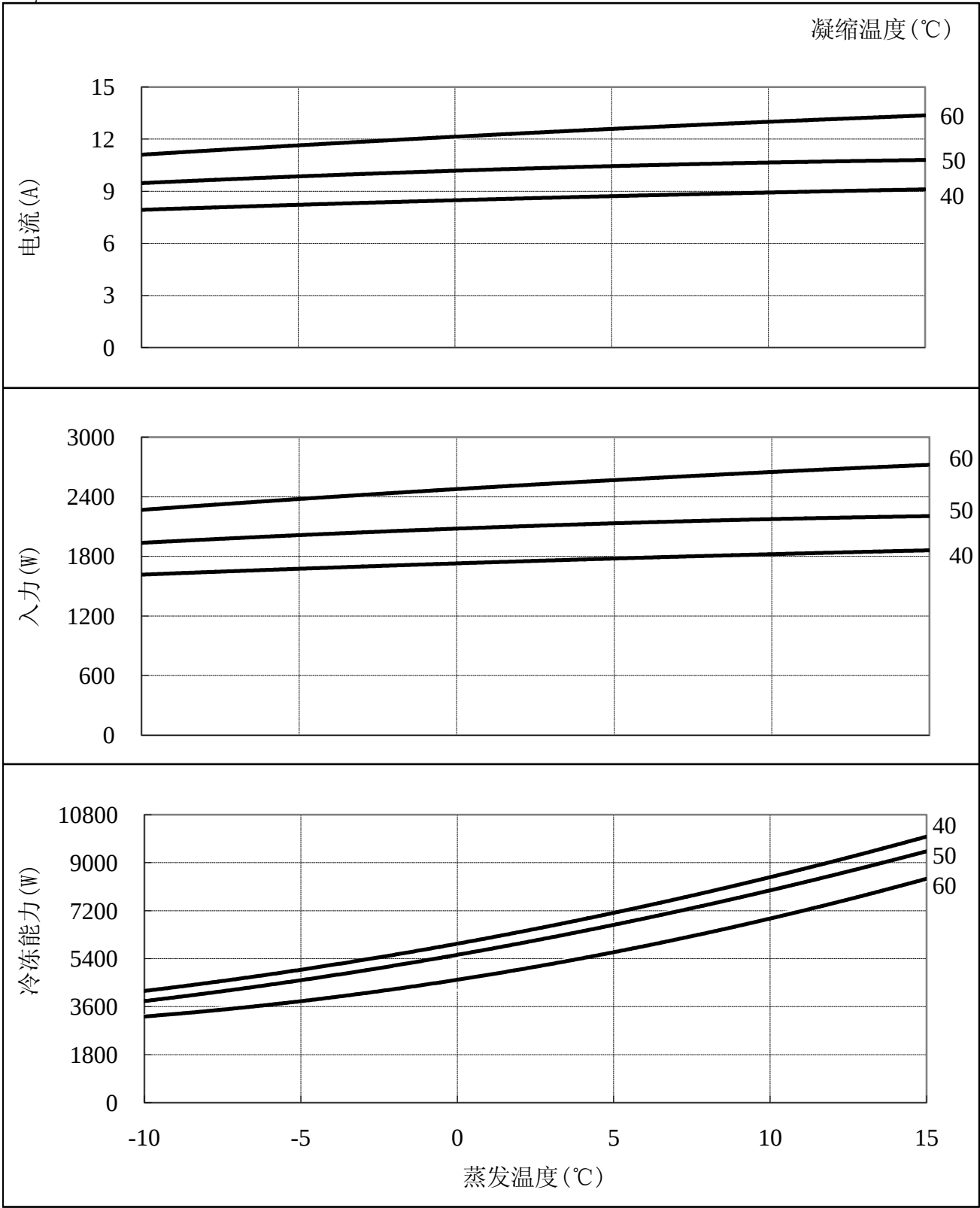


K2-C340GE 性能曲线

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



1 φ 208V 60Hz

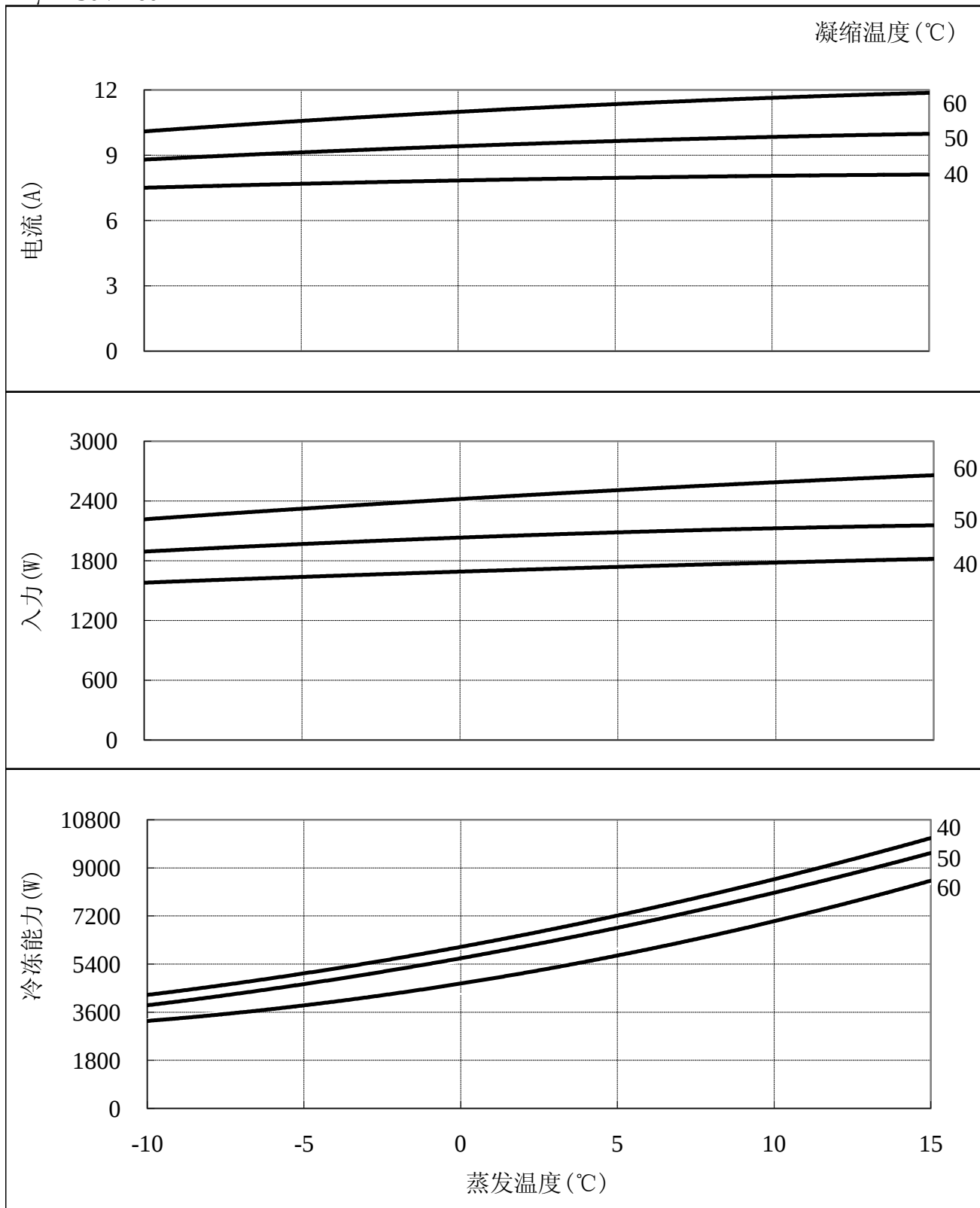


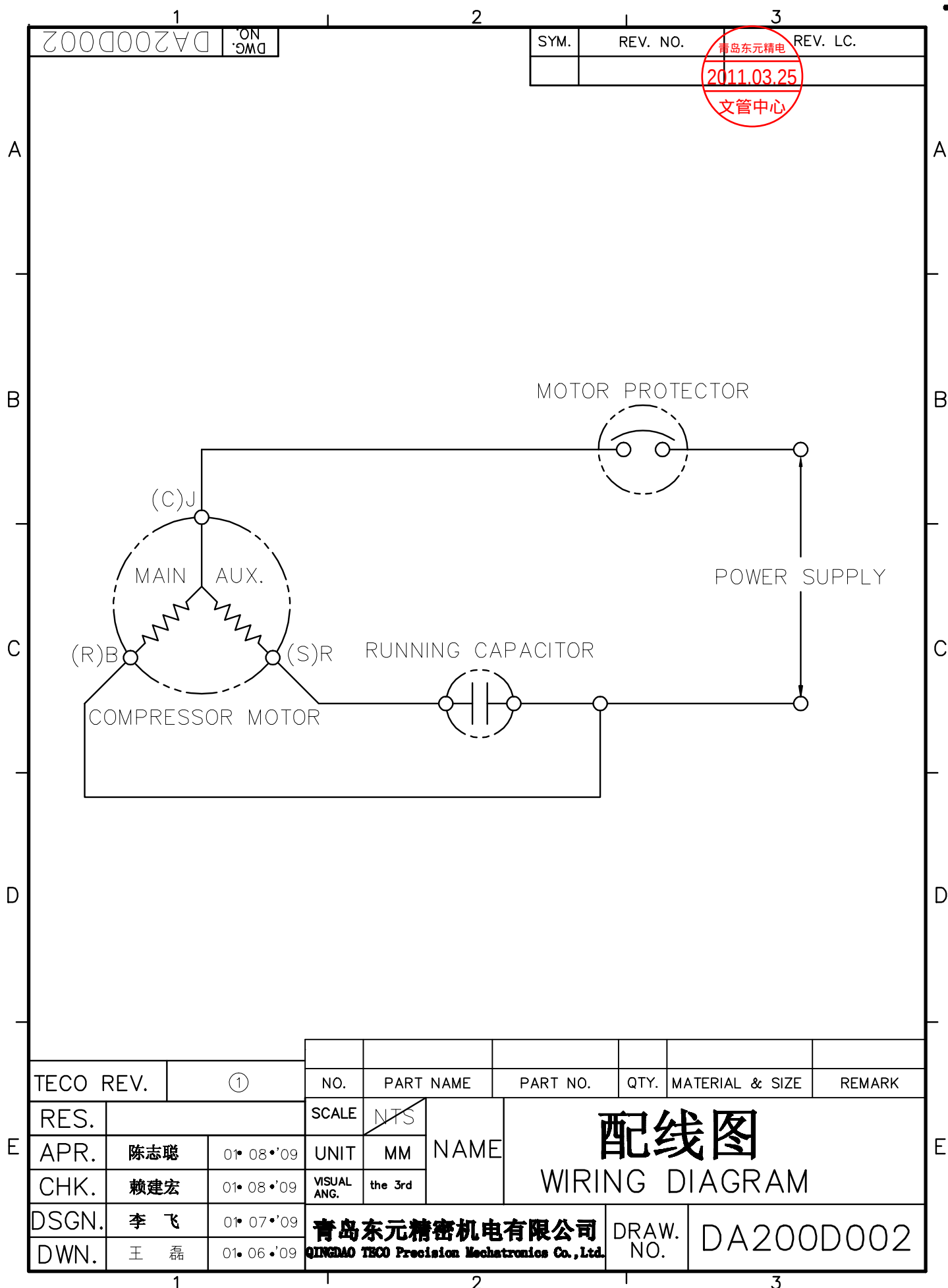
K2-C340GE 性能曲线

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



1 ϕ 230V 60Hz





TECO REV.		①	NO.	PART NAME	PART NO.	QTY.	MATERIAL & SIZE	REMARK
RES.			SCALE	NTS	NAME	配线图 WIRING DIAGRAM		
APR.	陈志聪	01•08•'09	UNIT	MM				
CHK.	赖建宏	01•08•'09	VISUAL ANG.	the 3rd				
DSGN.	李 飞	01•07•'09	青岛东元精密机电有限公司			DRAW. NO.	DA200D002	
DWN.	王 磊	01•06•'09	QINGDAO TECO Precision Mechatronics Co., Ltd.					

1
2
3

1

2

3

DA205D035

ON
DWG

SYM.

REV. NO.

2011.03.25

③

QYQ10069M

(1,A)

青島東元精電

REV. 03.25

文管中心

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 ③	OVERL TRIP CURRENT (@100℃) A±15%	LOCKED TRIP CURRENT(@25℃) A sec		OPEN TEMP. ℃	CLOSE TEMP. ℃	CIRCUIT
01	T0099/46	6.1	14.5	6~16	160±7	69±11	B
02	T0192/46	10.61	30	6~16	155±7	80±11	B
03	T0583/46	13.3	29	6~16	160±7	69±11	A
04	T0262/46	10.55	27	6~16	150±5	65±11	B
05	T0300/46	4.15	12.5	6~16	135±5	61±11	B
06	T0702/46	7.63(110℃)	21	6~16	150±5	69±11	B
07	T0703/46	9.4	20.5	6~16	155±7	69±11	A
08	T0580/46	18.15	41	6~16	155±7	69±11	A
09	T0297/46	9.52	24	6~16	155±7	69±11	B
10	T0709/46	7.13(110℃)	21	6~16	145±5	69±11	B
11	T0742/46	6.4(80℃)	15	6~16	140±5	69±11	B
12	T0720/46	17.7	42	6~16	150±5	61±11	A
13	T0705/46	7.02	15	6~16	160±7	69±11	B
14	T0735/46	6.14	18	6~16	145±5	69±11	B
15	T0818/46	10.5	25	6~16	160±7	78±11	B
16	T0579/46	14.5	33.0	6~16	150±5	69±11	A
17	T0695/46	12.68	33.0	6~16	150±5	78±11	B
18	T0794/46	7.11	19.0	6~16	150±5	69±11	B

6.35 0.5

∞

TERMINAL

1 2

CIRCUIT(A)

1 2

3

CIRCUIT(B)

AMP #250 FLAG TERMINAL

AMP #41802 FEMALE

65±0.6

29

3.0±0.3

型式表示处

16±0.5

∅24.6±0.3

∅26±0.2

TECO REV.		NO.	PART NAME	PART NO.	QTY.	MATERIAL & SIZE	REMARK
RES.	35012H002	SCALE	NTS	NAME	马达保护器 MOTOR PROTECTOR		
APR.	陈志聪	UNIT	MM				
CHK.		VISUAL ANG.	the 3rd				
DSGN.	王宗吉	青島東元精密机电有限公司			DRAW. NO.	DA205D035	
DWN.	李 丽	QINGDAO TECO Precision Mechatronics Co.,Ltd.					

1		2		3	
DA205D041		SYM.		REV. NO.	
ON		③		QYQ10062M	
DWM				REV. JS	
				青岛东元机电	
				2011.03.25	
				文管中心	

注：1. 铝底盖需盖紧，以不影响动作特性及外观尺寸，其形状不予限制。

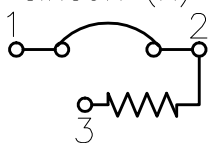
1. THE O.L.P. BOTTOM COVER SHOULD BE TIGHTLY FASTENED AND SHOULD NOT AFFECT ITS PERFORMANCE CHARACTERISTICS AND OUTLIN SPECIFICATIONS, BUT THE SHAPE IS NOT RESTRICTED.

ITEM	TYPE	OVERL TRIP CURRENT (@100℃) A±10%	LOCKED TRIP CURRENT(@25℃) A		OPEN TEMP. ℃±5°	CLOSE TEMP. ℃±9°	CIRCUIT
01	B175-155-241E	7.7	17.5	2~12	155	70	B
02	B200-160-241J	8.5	20	2~12	160	80	B
03	B300-155-241E	11.9	30	2~12	155	69	B
04	B200-140-241E	6.8	20	2~12	140	70	B
05	B410-155-141E	17±12%	41	2~12	155	69	A
06	B125-140-241C	5.0	12.5	6~16	140±5	65±11	B
07	B315-150-241E	9.0	31.5	2~12	150±5	69±9	B
08	B300-155-141E	12.5	30	6~16	155±7	69±11	A
09	B140-145C-241E	5(@80℃)	14	6~16	145	69	B
10	B145-160C-241E	6.8(@80℃)	14.5	6~16	160	69	B
③ 11	B285-155P-141E	11.7±15%	28.5	2~12	155±7	70±11	A



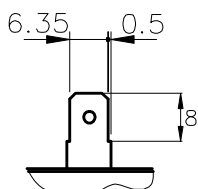
回路图(A)

CIRCUIT (A)



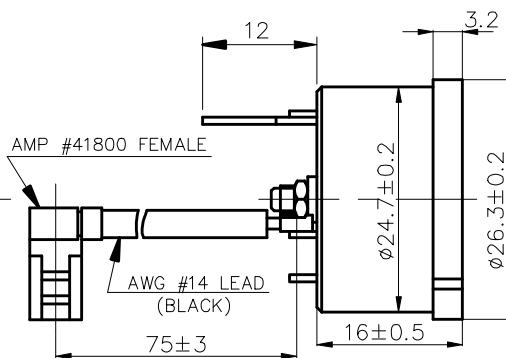
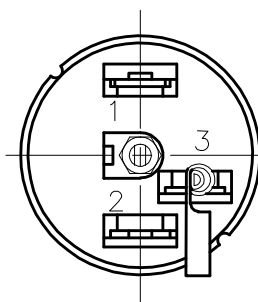
回路图(B)

CIRCUIT (B)

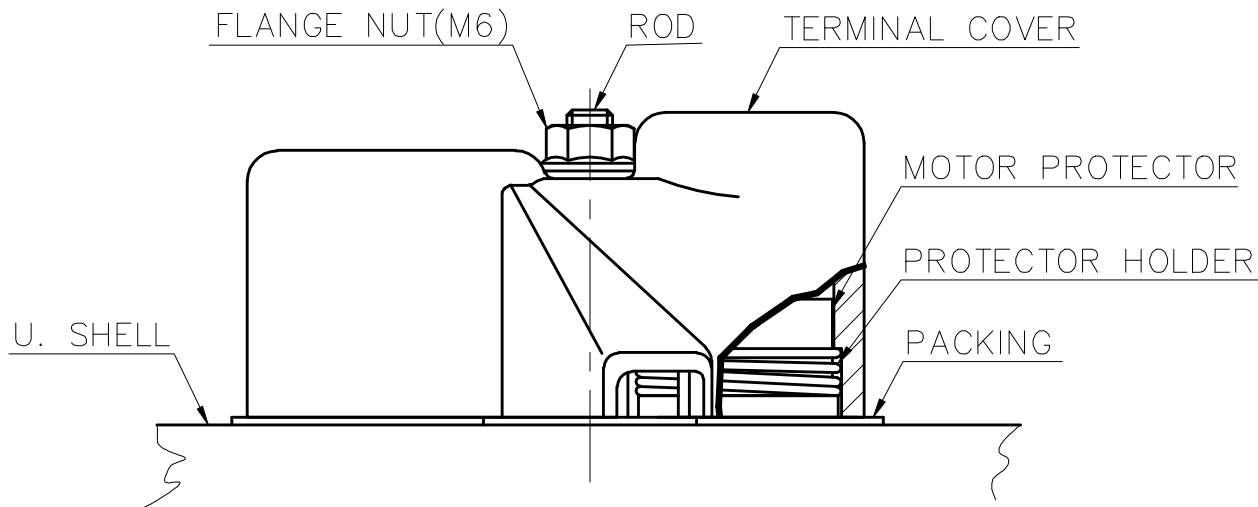
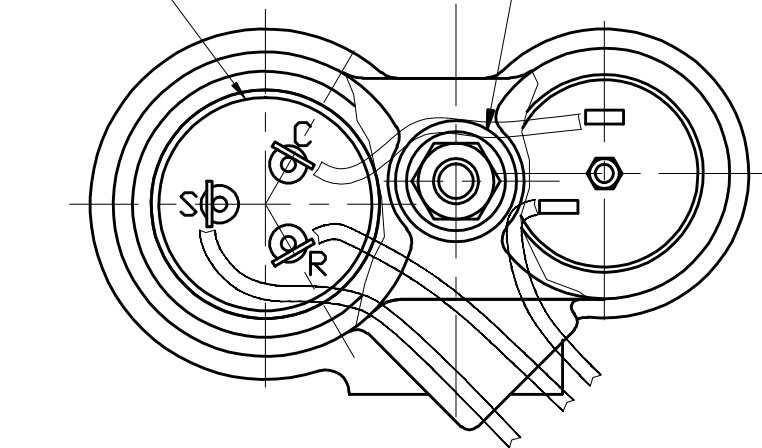
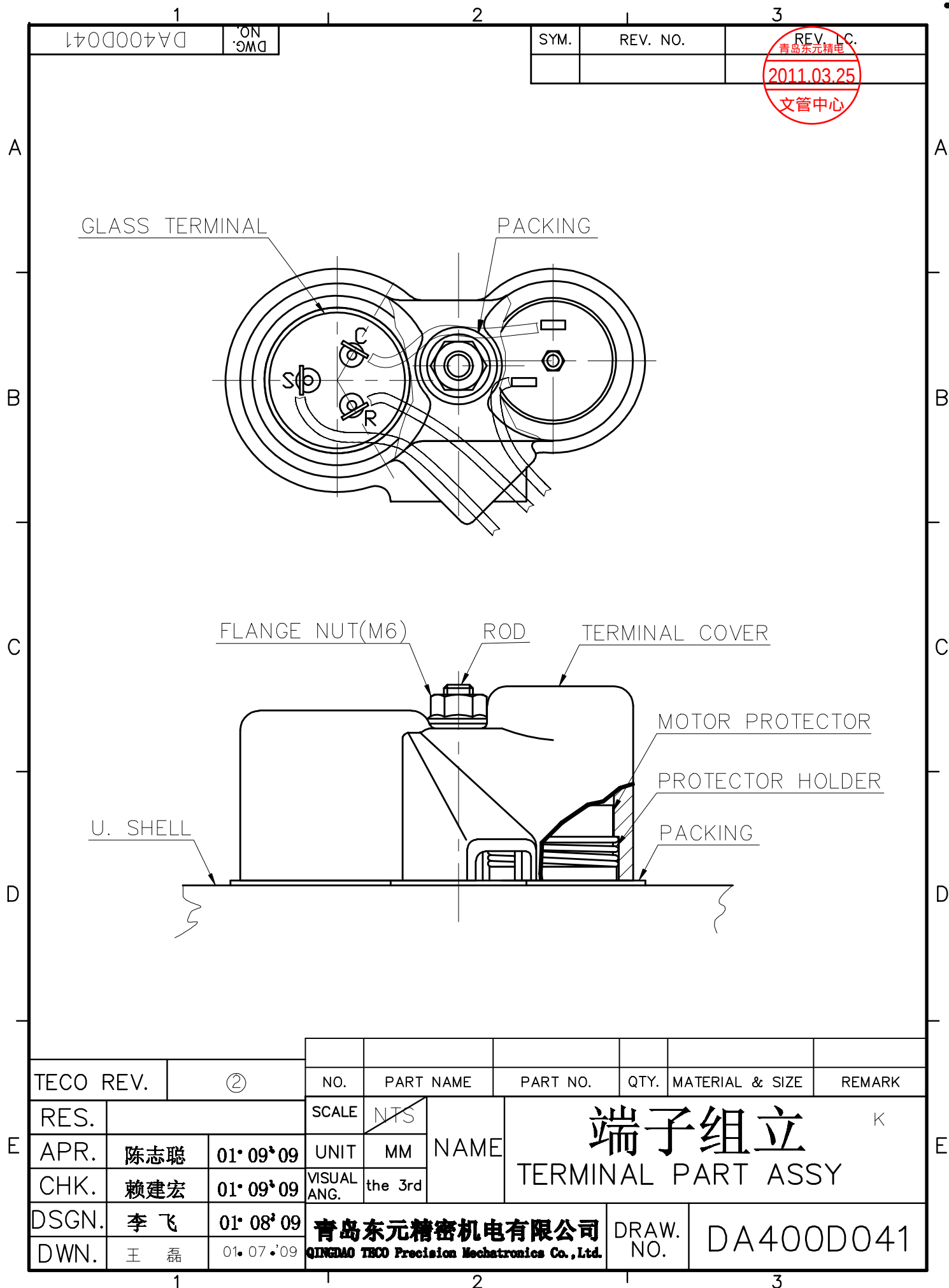


端子图

(AMP #250 SERIES)
TERMINAL



TECO REV.		⑦		NO.	PART NAME	PART NO.	QTY.	MATERIAL & SIZE	REMARK
RES.	35012H008		SCALE	NTS	NAME	马达保护器 MOTOR PROTECTOR			
APR.	陈志聪	11.15.10	UNIT	MM					
CHK.	王宗吉	11.15.10	VISUAL ANG.	the 3rd					
DSGN.	高志洋	11.15.10	青岛东元精密机电有限公司			DRAW. NO.	DA205D041		
DWN.	王秀丽	11.15.10	QINGDAO TECO Precision Mechatronics Co., Ltd.						



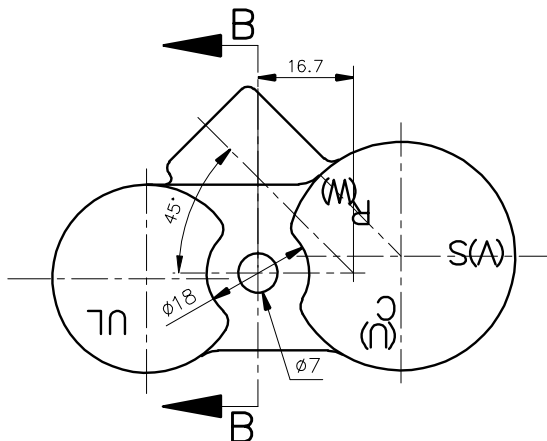
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DWG. NO.

SYM.

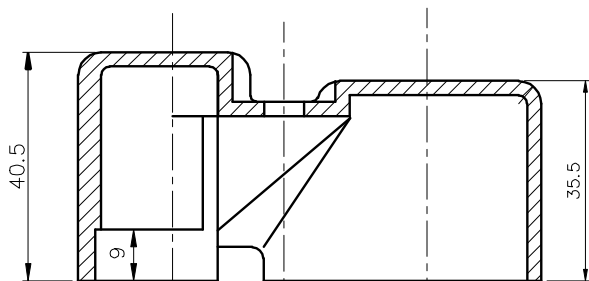
REV. NO.

A



1. COLOR: BLACK
2. THE MATERIAL MUST BE HARD TO IGNITE ($130\sim 140^{\circ}\text{C}$), HEAT PROOF: NO LESS THAN 120°C .
3. INSULATION RESISTANCE: $30\text{M}\Omega$ OR MORE AT D.C. 500V
4. VOLTAGE DURABILITY TEST: AT LEAST 1800V-SEC, OR 1500V-MIN.

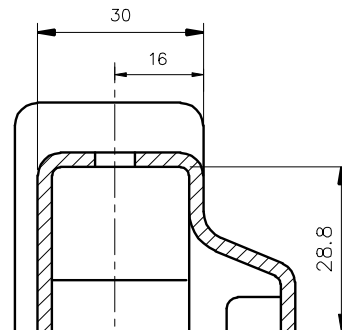
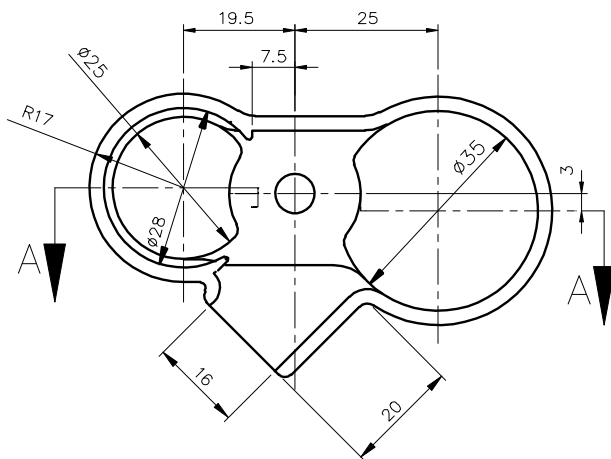
B



SECTION AA

- 注: 1. 颜色: 黑色。
2. 难燃性材质 ($130\sim 140^{\circ}\text{C}$), 耐热性 120° 以上。
3. 绝缘测试:
以DC500V绝缘抵抗须在 $30\text{M}\Omega$ 以上。
4. 耐压测试:
1500V-min, 1800V-sec合格。

C



SECTION BB

D

TECO REV.

NO.

PART NAME

PART NO.

QTY.

PC500

t3.0

MATERIAL & SIZE

REMARK

RES.

35015Q001

SCALE

NTS

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

DRAW.

DA405Q001

DWN.

李 丽

04-27-10

QINGDAO TECO Precision Mechatronics Co., Ltd.

NO.

E

端子盖

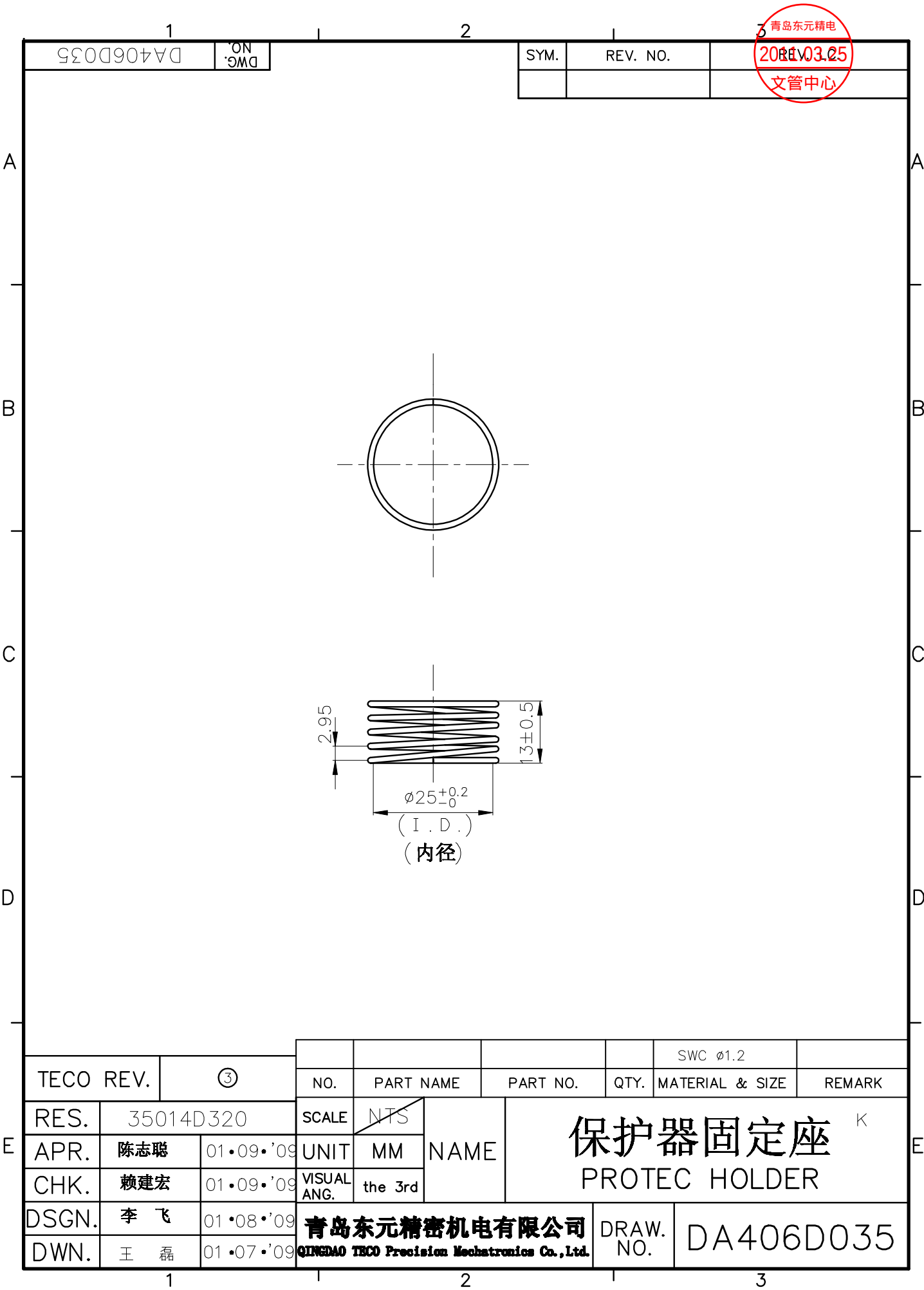
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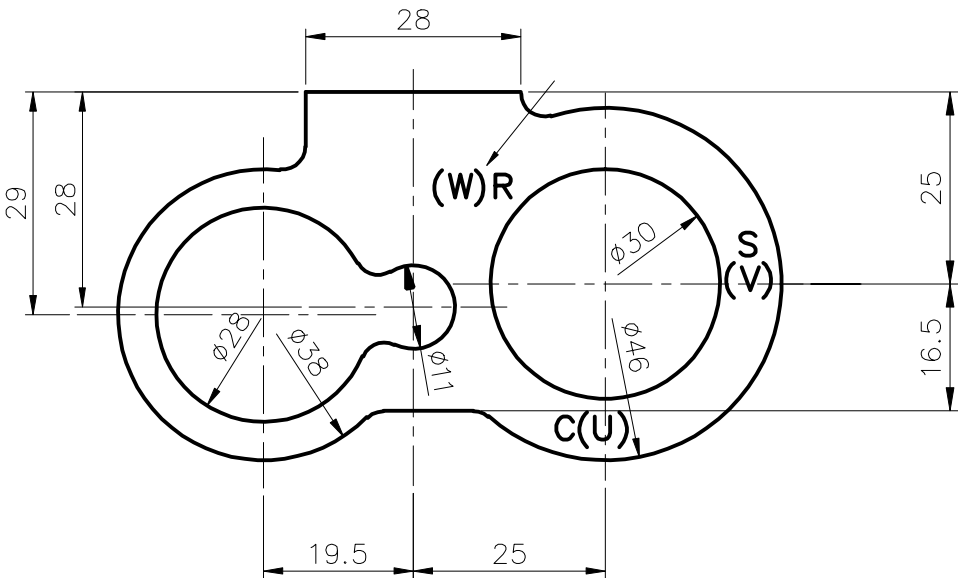
TERMINAL COVER

1

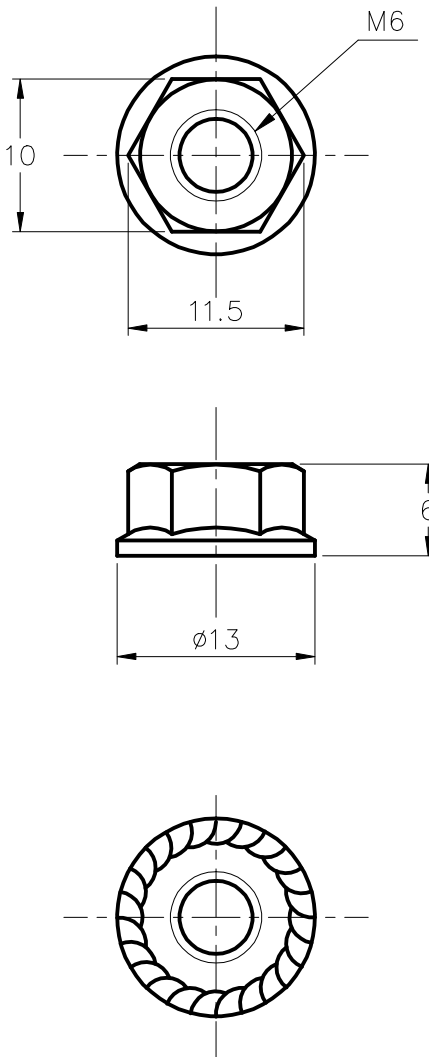
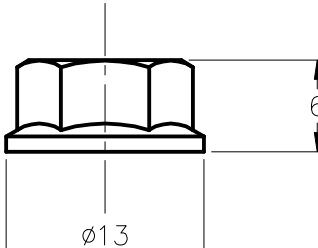
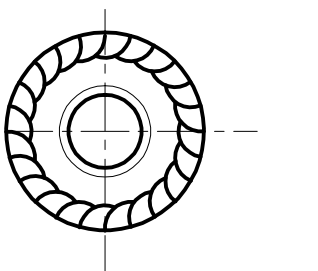
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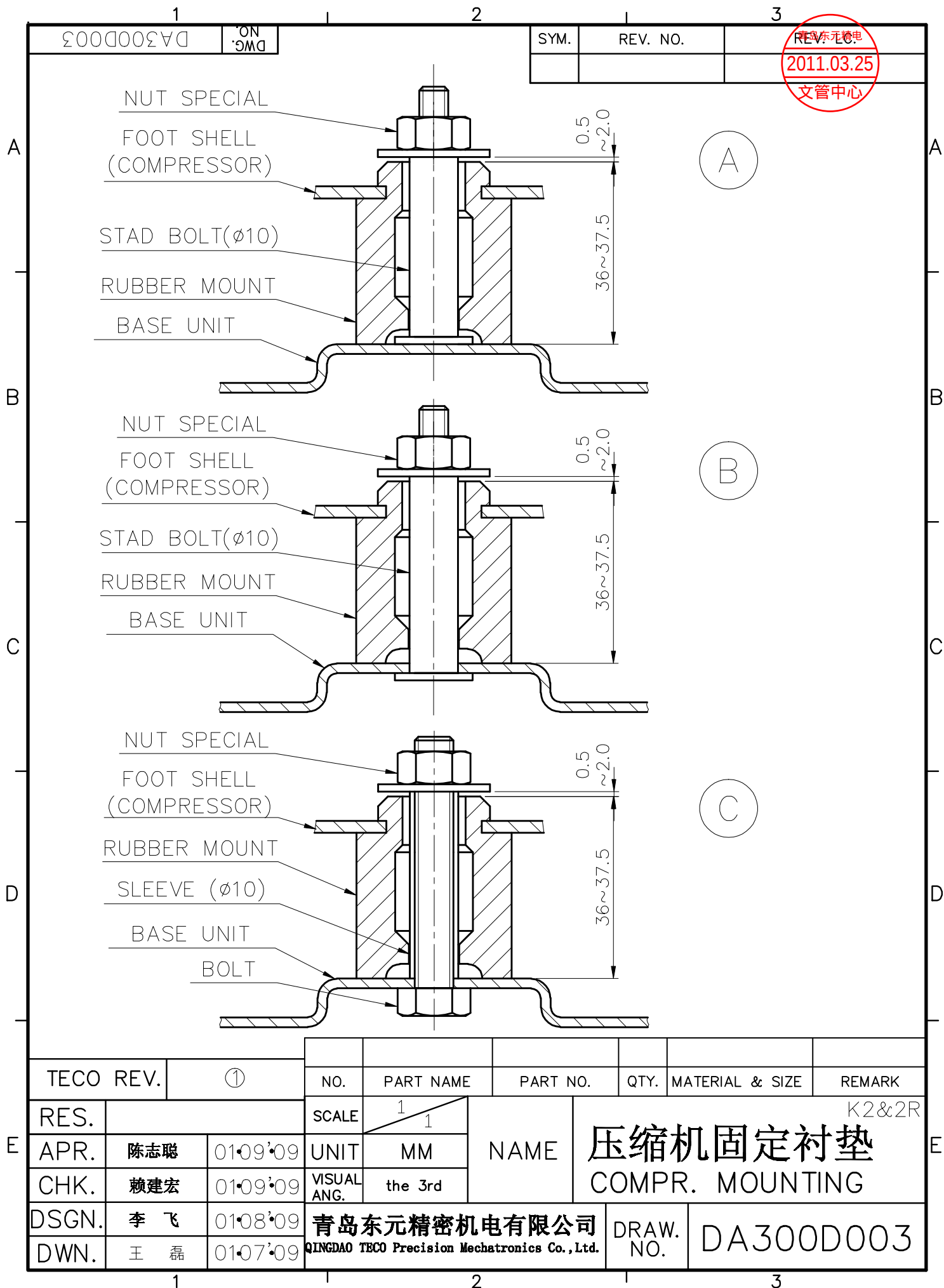
3



1		2		3																																																				
DWG. NO. DA408D043		SYM.		REV. NO.																																																				
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				青岛东元精电																																																				
				2011.03.25																																																				
				文管中心																																																				
A						A																																																		
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 rowspan="3">衬垫</td><td rowspan="3">K</td><td rowspan="3">PACKING</td><td rowspan="3"></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">青岛东元精密机电有限公司</td><td>DRAW. NO.</td><td colspan="3">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="3"></td></tr></table>					TECO REV.		③	NO.		PART NAME	PART NO.	QTY.	EPT T1.5	REMARK	RES.	35023D553		SCALE	1/1	NAME	衬垫	K	PACKING		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.	DA408D043			DWN.	王磊	01·07·09	QINGDAO TECO Precision Mechatronics Co., Ltd							E
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RES.	35023D553		SCALE	1/1	NAME	衬垫	K	PACKING																																																
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DSGN.	李飞	01·08·09	青岛东元精密机电有限公司			DRAW. NO.	DA408D043																																																	
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DA408D031		DWG. NO.		SYM.	
				REV. NO.	
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				2011.03.25	
				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℃) .					
TECO REV.		②		EPT T1.5	
RES. 35023D254		NO.		PART NAME	
APR. 陈志聪		PART NO.		QTY.	
CHK. 赖建宏		SCALE		MATERIAL & SIZE	
DSGN. 李飞		UNIT		REMARK	
DWN. 王磊		VISUAL ANG.			
		NTS			
		MM			
		the 3rd			
		NAME			
		衬 垫			
		PACKING			
		青岛东元精密机电有限公司			
		QINGDAO TECO Precision Mechatronics Co., Ltd.			
		DRAW. NO.		DA408D031	

1			2			3																	
DWA904D025			DWG. NO.			SYM.			REV. NO.			REV. LC.											
									2011.03.25			青島東元精電 文管中心											
注：1. 表面五彩鍍鋅（三價格）處理。																							
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											
APR.			陈志聪			01.09.09			UNIT			MM			NAME			FLANGE NUT					
CHK.			赖建宏			01.09.09			VISUAL ANG.			the 3rd			NAME			FLANGE NUT					
DSGN.			李飞			01.08.09			青島東元精密机电有限公司			DRAW. NO.			DA904D025								
DWN.			王磊			01.07.09			QINGDAO TECO Precision Mechatronics Co., Ltd.			DRAW. NO.			DA904D025								



2011.03.25

文管中心

A

B

C

E

E

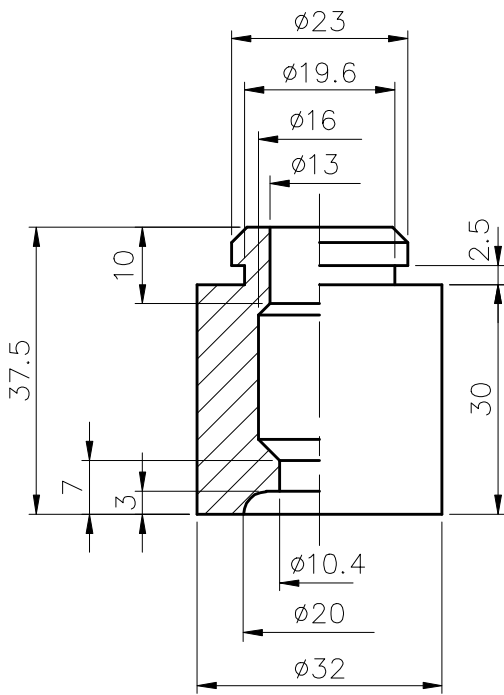
1		2		3	
DWG. NO. DA306D011		SYM.		REV. NO.	
				REV. LC.	
				2011.03.25	
				文管中心	

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



TECO REV.			②		NO.		PART NAME		PART NO.		QTY.		EPDM		REMARK	
RES.			35017D255		SCALE		1/1		NAME		橡皮座 K2 RUBBER MOUNT					
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.											

S+0DZ16VD		ON GMD		SYM.		REV. NO.		REV. C.	
注: 1. 颜色采白底黑字.		2. 此件须耐温125°C以上.		3. 制造编号:		①		QN9060M	
年 (1994→4)		月 (01, 02, . . . 11, 12)		流水号		①		(2,A)(3,B)(2,D)	
4. 材质为POLYESTER FILM, 厚为0.05.		NOTES: 1.WORDS ARE BLACK WITH WHITE BACKGROUND.		2.HEAT DURABILITY MUST EXCEED 125°C.		3.SERIAL NO.:		①	
YEAR(1994→4)		MONTH(01, 02, . . . 11, 12)		CONTINUOUS NO.		①			
4.MATERIAL:POLYESTER FILM		THICKNESS:0.05.		频率		输入		电压	
机种型名		NAME		66		交流电符号		AC SOURCE	
电源相		PHASE		66		制冷剂代号		REFRIGERANT	
拘束电流		LOCKED CURRENT		PH		Hz		V	
制造编号 (注3)		SERIAL NO.		LRA		A		W	
				408000001		OK		检验合格	
				RoHS		认证标志 (3C、UL、VPC. . 等)		RECOGNIZED MARK	
				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					
				QINGDAO TECO PRECISION MECHATRONICS CO., LTD.					
TECO REV.		①		NO.		PART NAME		PART NO.	
RES.		35970H003		SCALE		NTS		QTY.	
APR.		陈志聪		06·19'09		UNIT		MM	
CHK.						VISUAL ANG.		the 3rd	
DSGN.		李 飞		06·18'09		青岛东元精密机电有限公司		DRAW. NO.	
DWN.		雷 冰		06·17'09		QINGDAO TECO Precision Mechatronics Co.,Ltd.		DA912D045	