

电气原理图

本章节中显示了RTAC机组的典型现场接线图、电气原理图。

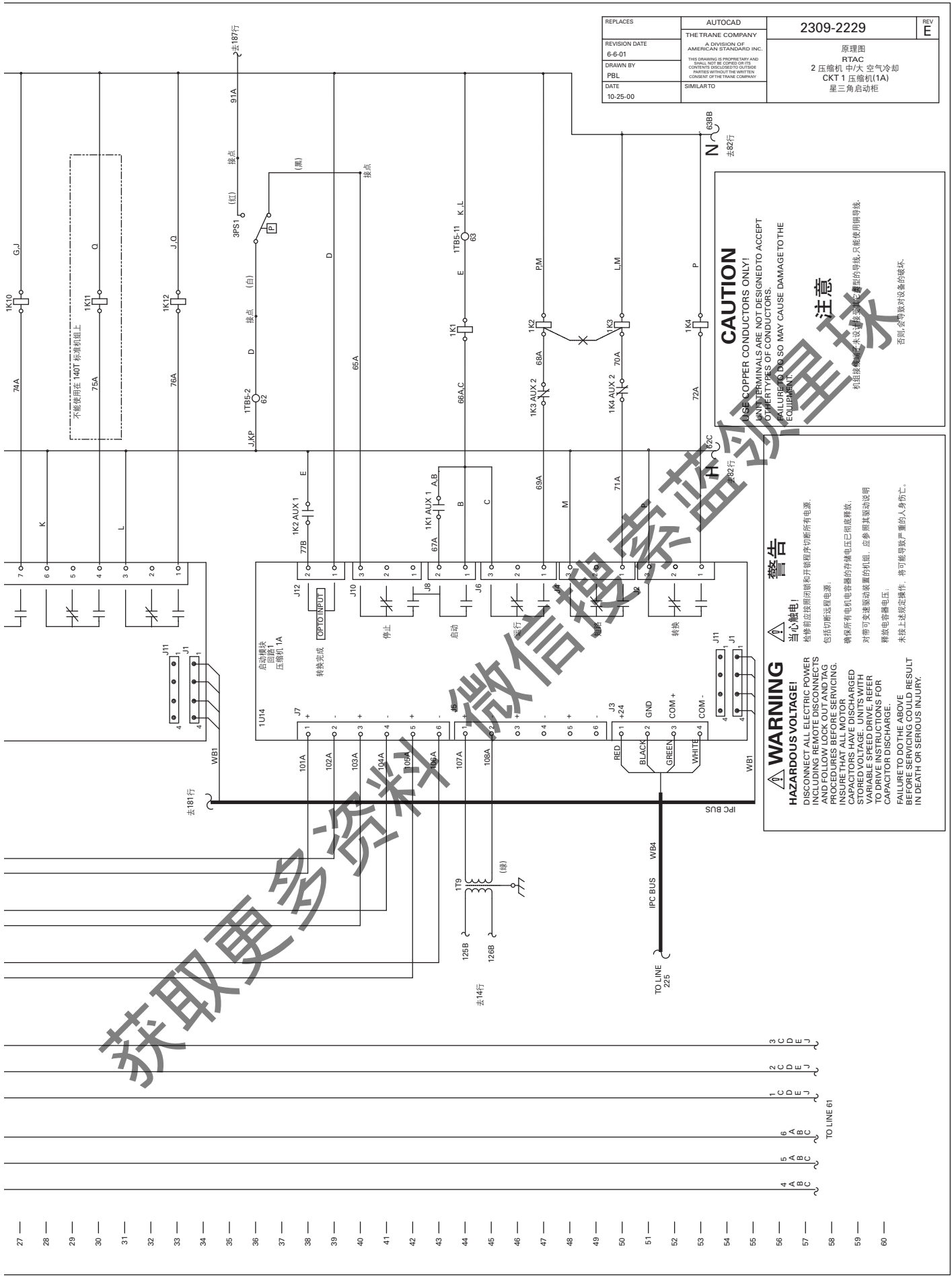
注意：在本章节中的图纸仅供参考。这些图纸可能未真实反映机组实际的布线情况。对于特定的电气连接图和原理图信息，请始终参考随机发运的接线图。

机组电气数据

要确定某个机组的特定的电气特征，请参考机组上安装的铭牌。

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REPLACES	AUTOCAD	2309-2229	REV E
REVISION DATE 6-6-01	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图 2 压缩机中大 空气冷却 CKT 1 压缩机(1A) 星三角启动柜	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.		
DATE 10-25-00	SIMILAR TO		

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIFORM TERMINALS ARE NOT DESIGNED TO ACCEPT
OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE
EQUIPMENT.

注意
机连接端子未设置接受其它类型的导线,只能使用铜导线。
否则,会导致对设备的破坏。

警告
当心触电!
检修前应按照闭锁和开锁程序切断所有电源。
包括切断远程电源。
确保所有电动机电容器的存储电压已彻底释放。
对带可变速驱动装置的机组,应参照其启动说明
释放电容器电压。
未接上地线定操作,将可能导致严重的人身伤亡。

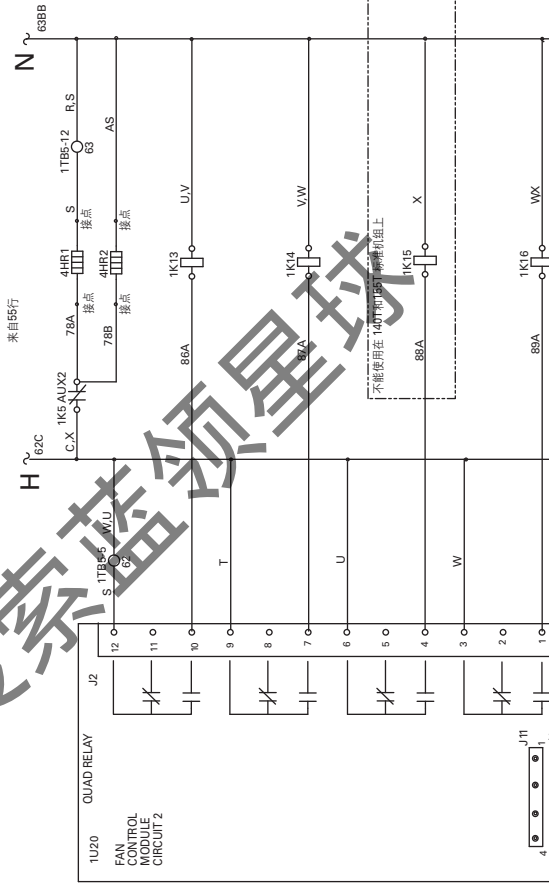
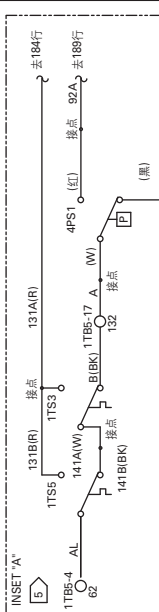
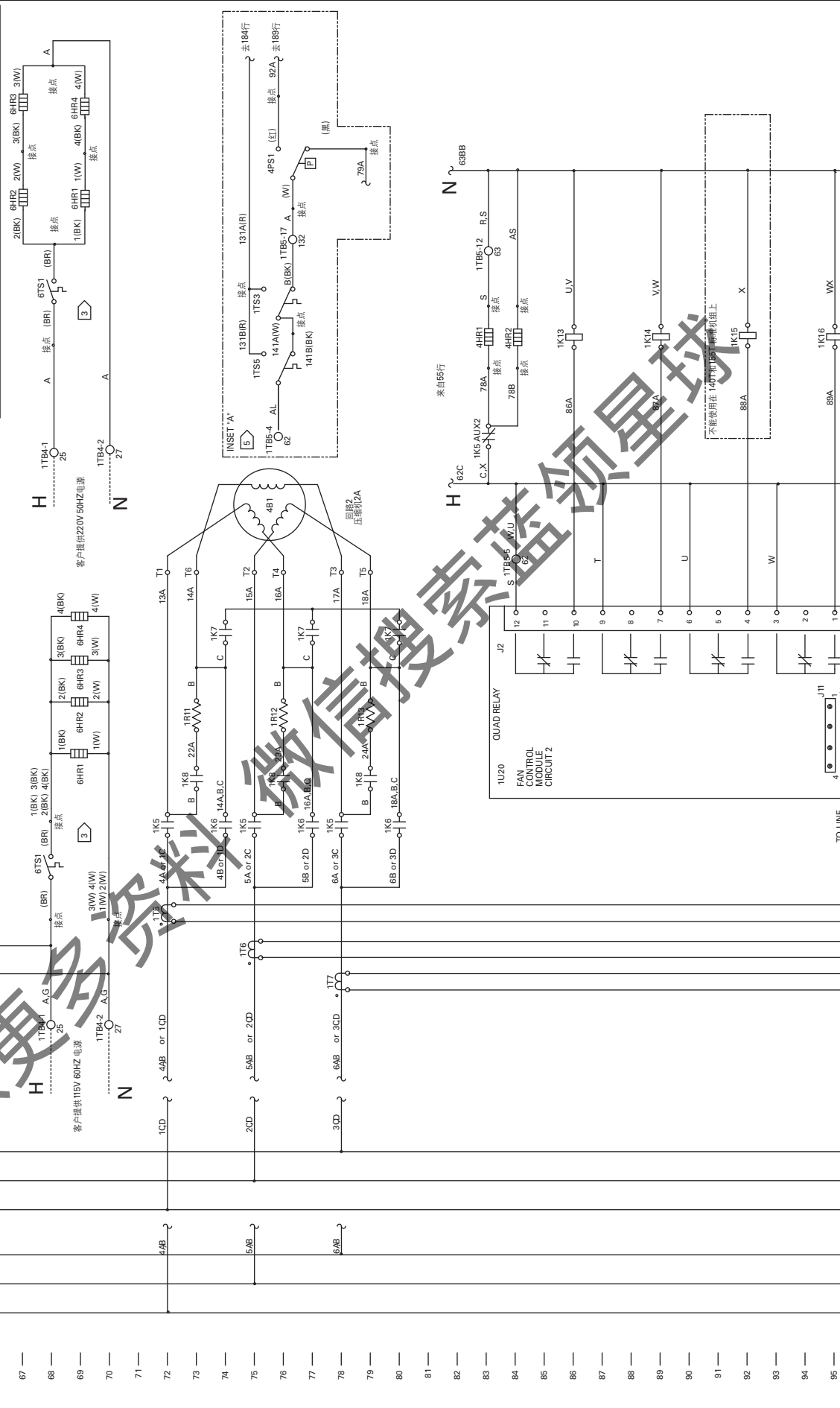
WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS
AND FOLLOW LOCK OUT AND TAG
PROCEDURES BEFORE SERVICING.
INSURE THAT ALL MOTOR
CAPACITORS HAVE BEEN FULLY CHARGED
STORED VOLTAGE UNITS WITH
VARIABLE SPEED DRIVE, REFER
TO DRIVE INSTRUCTIONS FOR
CAPACITOR DISCHARGE.
FAILURE TO DO THE ABOVE
BEFORE SERVICING COULD RESULT
IN DEATH OR SERIOUS INJURY.

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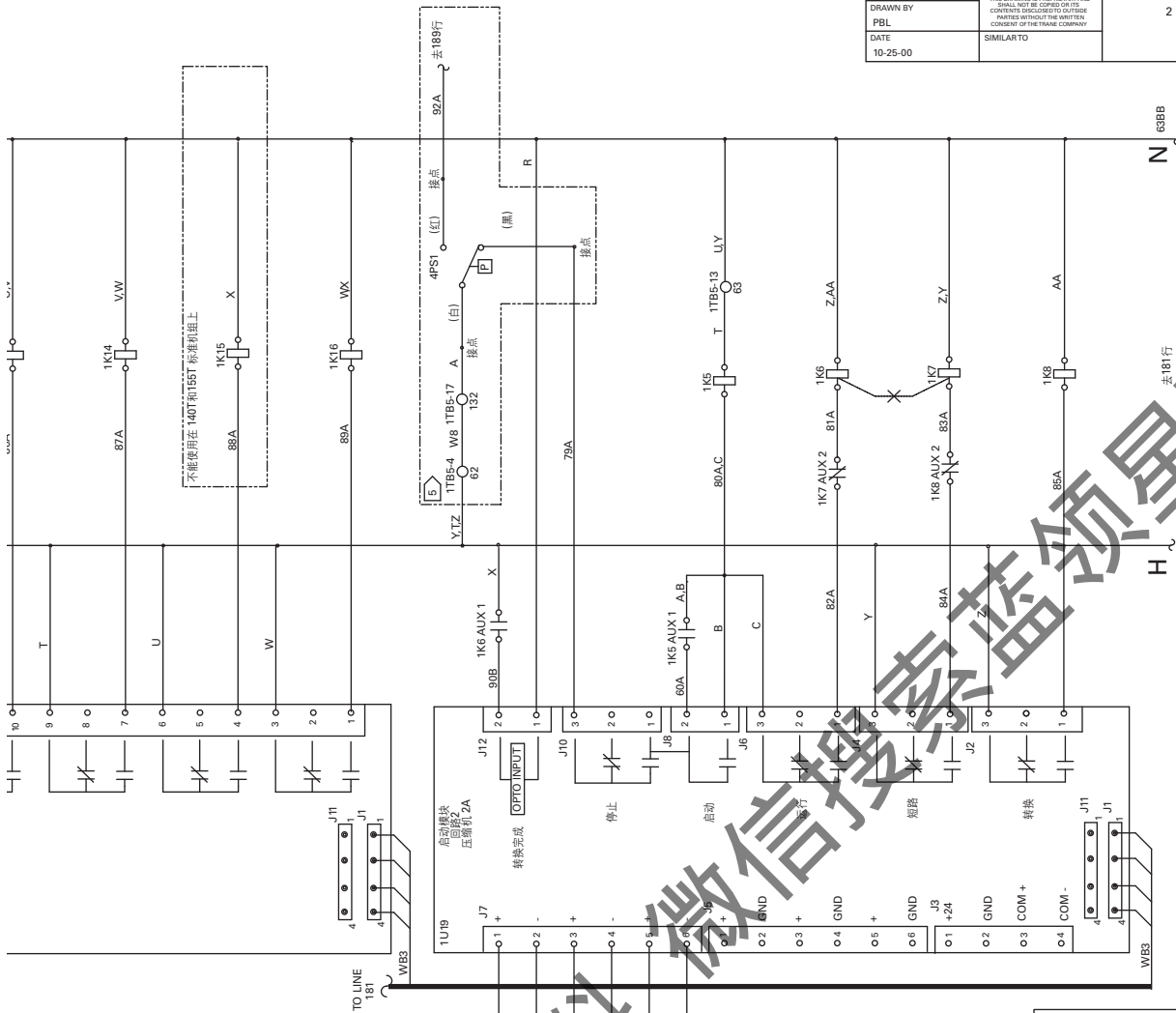


警告
当心触电!
 检修前应按照闭锁程序切断所有电源。
 包括切断远程电源。
 确保所有电机电容器的存储电压已彻底释放。
 对带可变速驱动装置的机组，应参照其驱动说明
 释放电容器电压。
 未接上述规定操作，将可能导致严重的人身伤亡。

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWERS
INCLUDING REMOTE DISCONNECTS
AND FOLLOW LOCK OUT AND TAG
PROCEDURES BEFORE SERVICING.
 INSURE THAT ALL MOTOR
 CAPACITORS HAVE DISCHARGED
 COMPLETELY. FOR ALL HIGH
 VARIABLE SPEED DRIVE REFER
 TO DRIVE INSTRUCTIONS FOR
 CAPACITOR DISCHARGE.
 FAILURE TO DO THE ABOVE
 BEFORE SERVICING COULD RESULT
 IN DEATH OR SERIOUS INJURY.



REPLACES	AUTOCAD	2309-2230	REV E
REVISION DATE 04-26-01	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图 RTAC 2 压缩机 中大 空气冷 CKT 2 压缩机(2A) 星三角启动	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.		
DATE 10-25-00	SIMILAR TO		



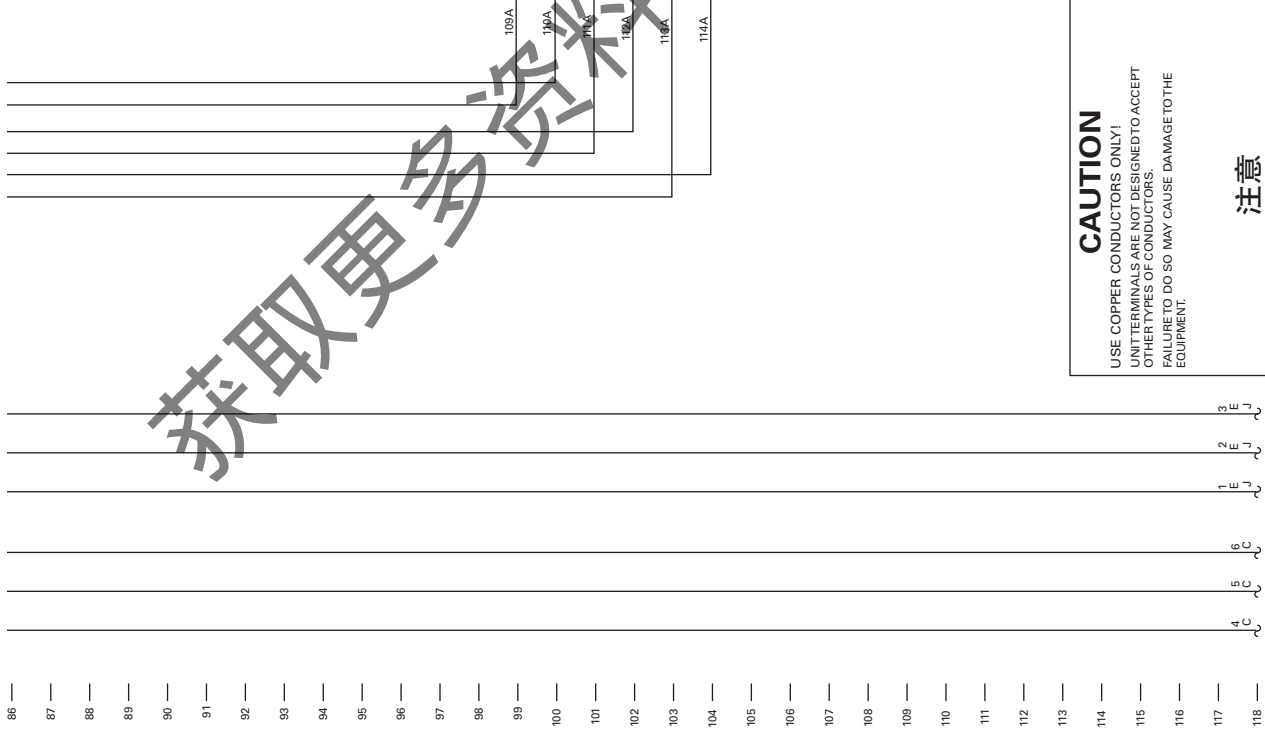
N 6SBB

H 去181行

- 注:
- 回路1和2的单一电源, 或者回路1取电源的电源系统选项。
 - 回路2 双电源选项供电电源。
 - 蒸发器加热元件 6TS1, 6HR1, 6HR2, 6HR3, 6HR4 和相关连接块适用于所有配有标准压缩机蒸发器组件的RTAC机组。远程蒸发器选项不满足条件。
 - 客户方便出口选项。
 - 只有在控制柜配有通风风扇的时候, 才可以使用控制柜相关接线。

CAUTION
USE COPPER CONDUCTORS ONLY!
UNITERMINALS ARE NOT DESIGNED TO ACCEPT
OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE
EQUIPMENT.

注意
机组接线端子未设计接受其它类型的导线, 只能使用铜导线。
否则, 会导致对设备的破坏。



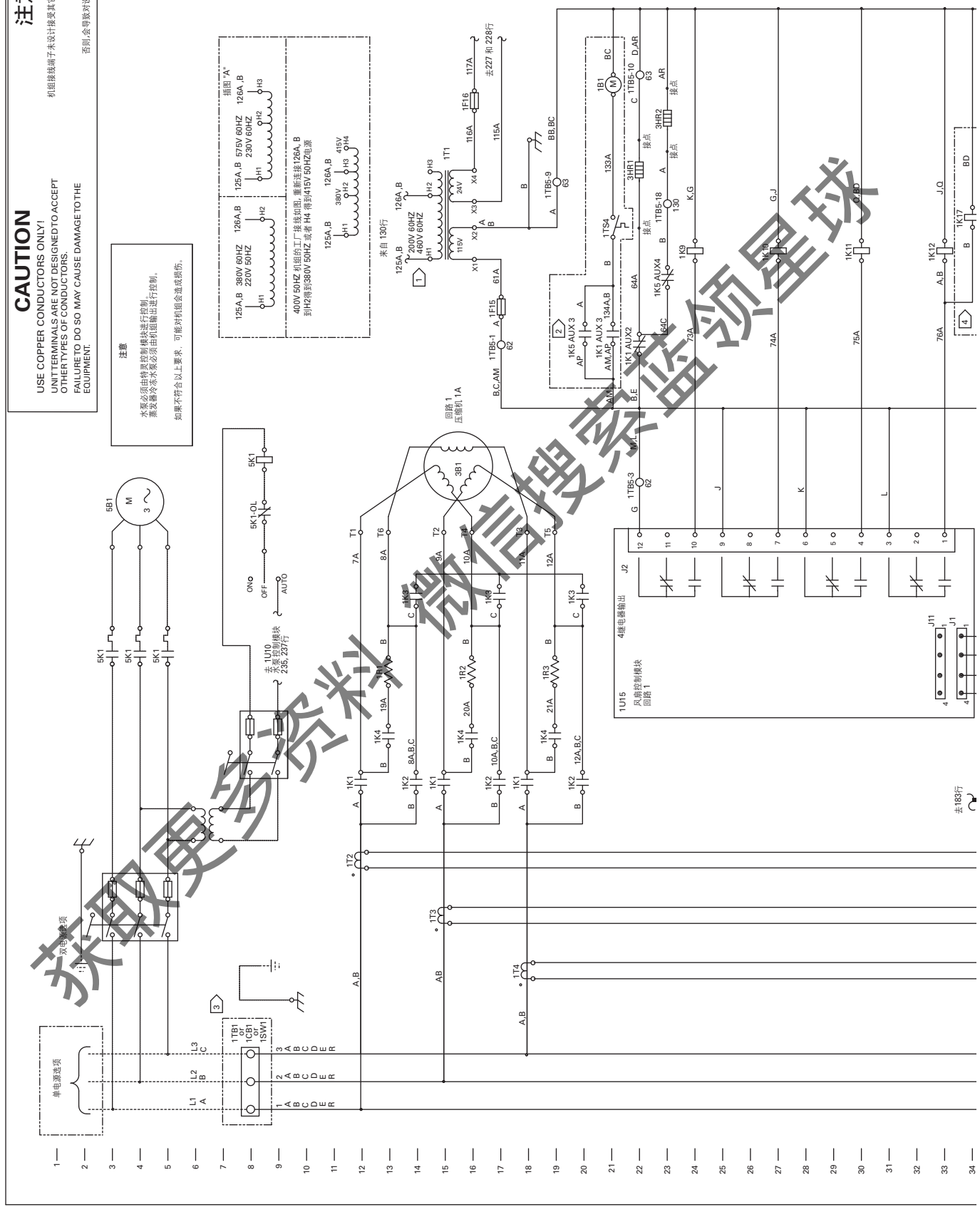
CAUTION

USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT
OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE
EQUIPMENT.

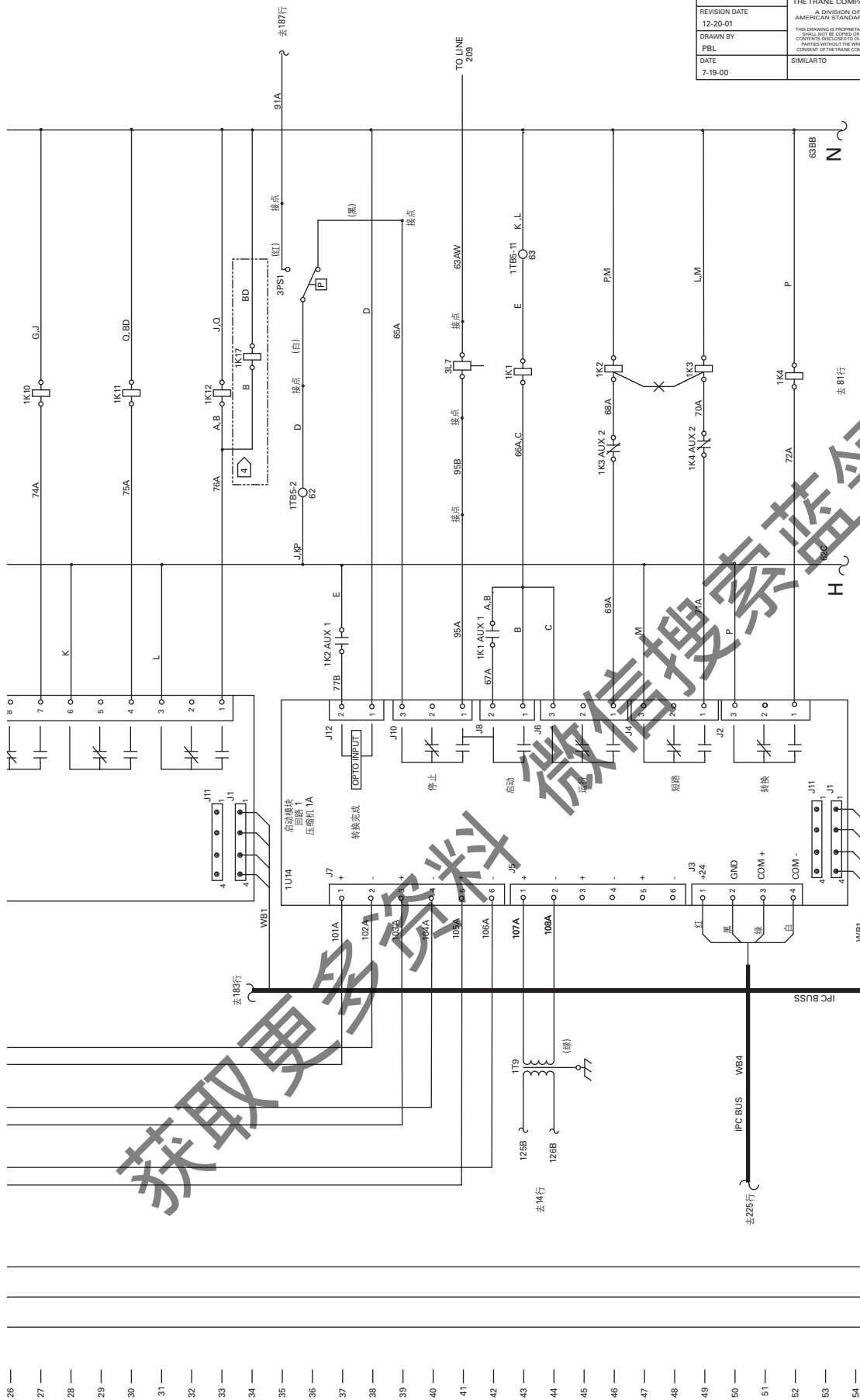
注意

机顶接线端子未设计接受其它类型的导线,只能使用铜导线。
否则,会導致对设备的破坏。

注意
水泵必须由特製控制模块进行控制。
蒸发器冷水泵必须由机顶输出进行控制。
如果不符合以上要求,可能对机组造成损伤。



REPLACES	AUTOCAD	2309-1990	REV E
REVISION DATE 12-20-01	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND SHOULD NOT BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.	RTAC 大型空气冷却 压缩机 控制柜	
DATE 7-19-00	SIMILARTO	原图 图例 图例 图例	



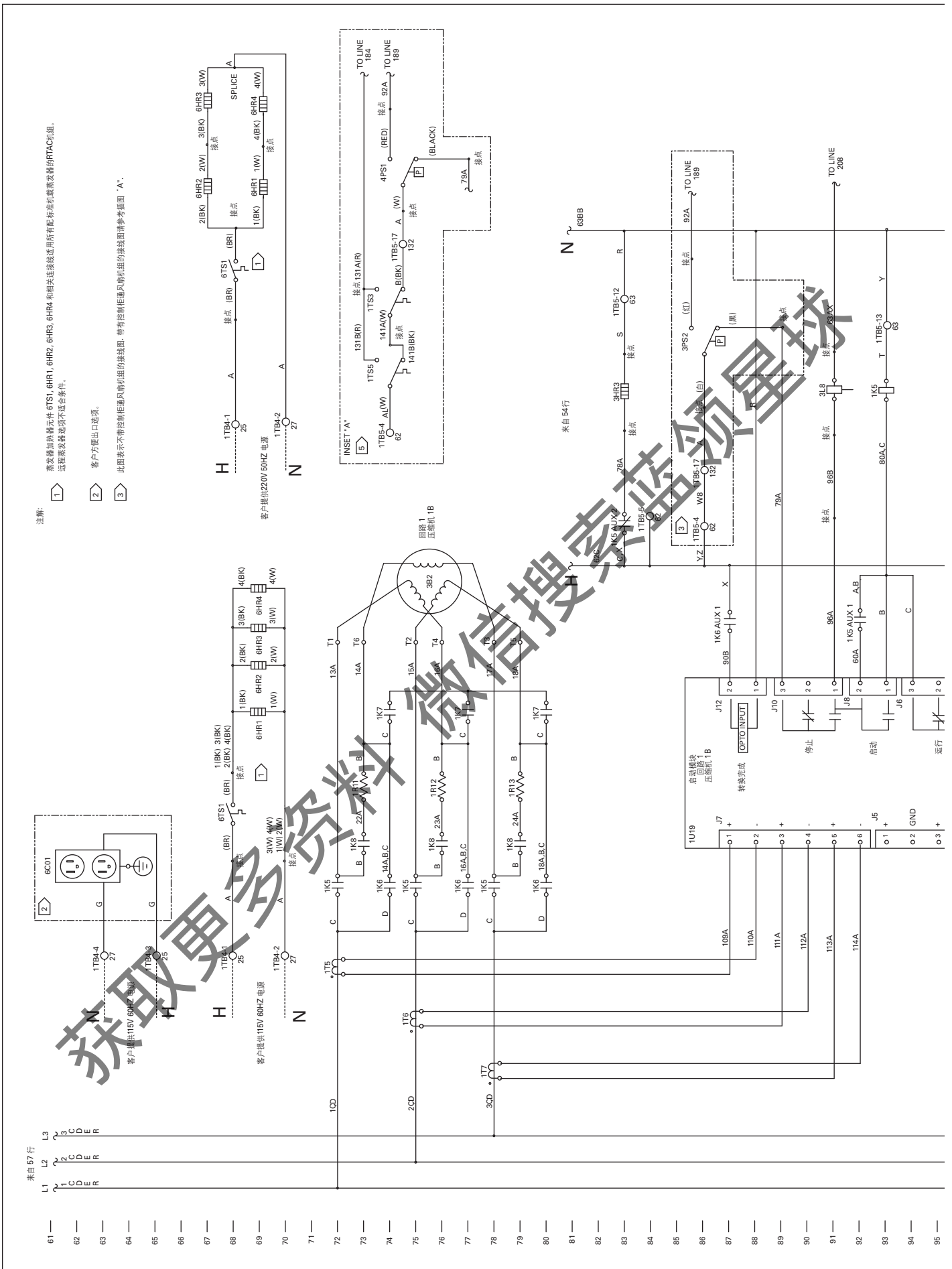
警告
当心触电！

检修前应拉闸闭锁和开程并切断所有电源，包括切断远程电源。

DISCONNECT ALL ELECTRIC POWER BEFORE SERVICING THIS UNIT. LOCK OUT AND TAG OUT ALL ENERGIES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED. STORED VOLTAGE, UNITS WITH VARIABLE SPEED DRIVE, REFER TO THE SERVICE MANUAL FOR CAPACITOR DISCHARGE PROCEDURE. FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

- 注：1 表示460V 或者 200V 机组接线，其他电源接线请参考图例“A”。
- 2 只有在控制柜配有通风风扇的时候，才可以使用控制柜和相关接线。
- 3 单或者双电源系统都可用，单电源只适用于机座电压400V及以上机组。此图表示了回路1的双电源系统。双电源适用于所有机组。对于单电源系统请参考图例2309-2219。
- 4 接触器 1K17 和 相关接线只适用于电源电压为230V及以下的275 冷吨或者更大的机组。详细请参考图例2309-4876 NOTE 1。

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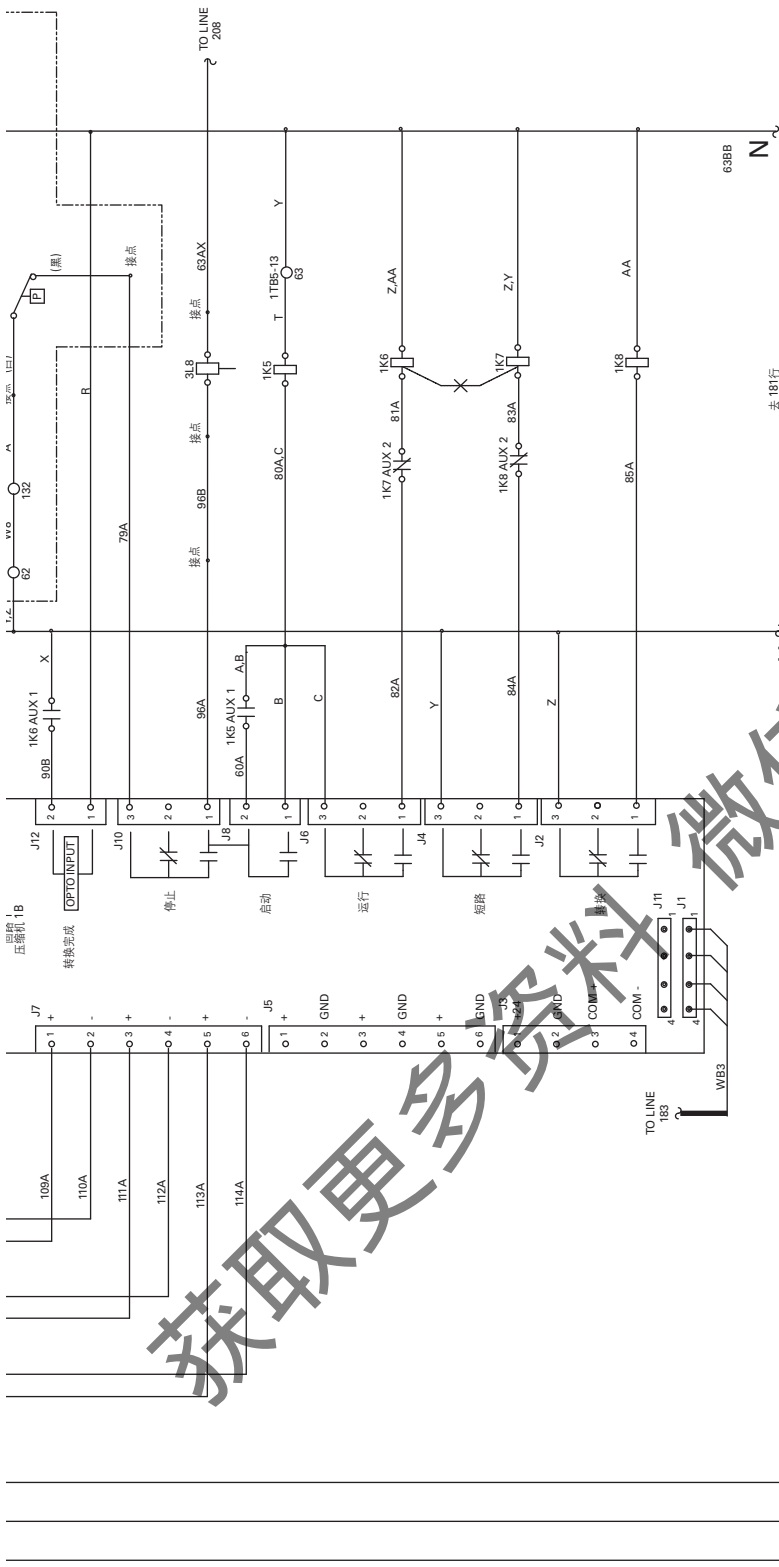


注脚:

- 1 蒸发器加热单元 6TS1, 6HR1, 6HR2, 6HR3, 6HR4 和相连接导线用所有标配标准蒸发器单元的RTAC机组。近程蒸发器选项不适合条件。
- 2 客户量出口选项。
- 3 此图表示不带控制柜通风扇机组的接线图。带有控制柜通风扇机组的接线图请参考图例“A”。

来自 57 行

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 63 — L3 — 3 O E R
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REPLACES	AUTOCAD	2309-1991	REV
REVISION DATE	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图	F
DRAWN BY	12-12-01 THIS DRAWING IS THE PROPERTY OF THE TRANE COMPANY AND SHALL NOT BE COPIED OR ITS CONTENTS REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.	RTAC	
DATE	7-19-00	大型空气冷却 压缩机(1B)启动 3或者4压缩机	

警告

WARNING

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER BEFORE SERVICING. ALWAYS LOCK OUT AND TAG OUT BEFORE WORKING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED BEFORE SERVICING. PREFER TO DISCHARGE CAPACITOR INSTEAD OF FAILURE TO BOTH THE BOWLINE BEFORE SERVICING'S COULD RESULT IN DEATH OR SERIOUS INJURY.

当心触电!
检修前应断开所有电源。检修前应挂断锁闭并挂牌切断所有电源。包括切断电源。确保所有电机电容器的存储电压已彻底释放。对可变速度驱动装置的机组，应参阅其启动说明释放电容器电压。未按上述规定操作，可能导致严重的人身伤亡。

警告

ATTENTION

PRECAUCIÓN

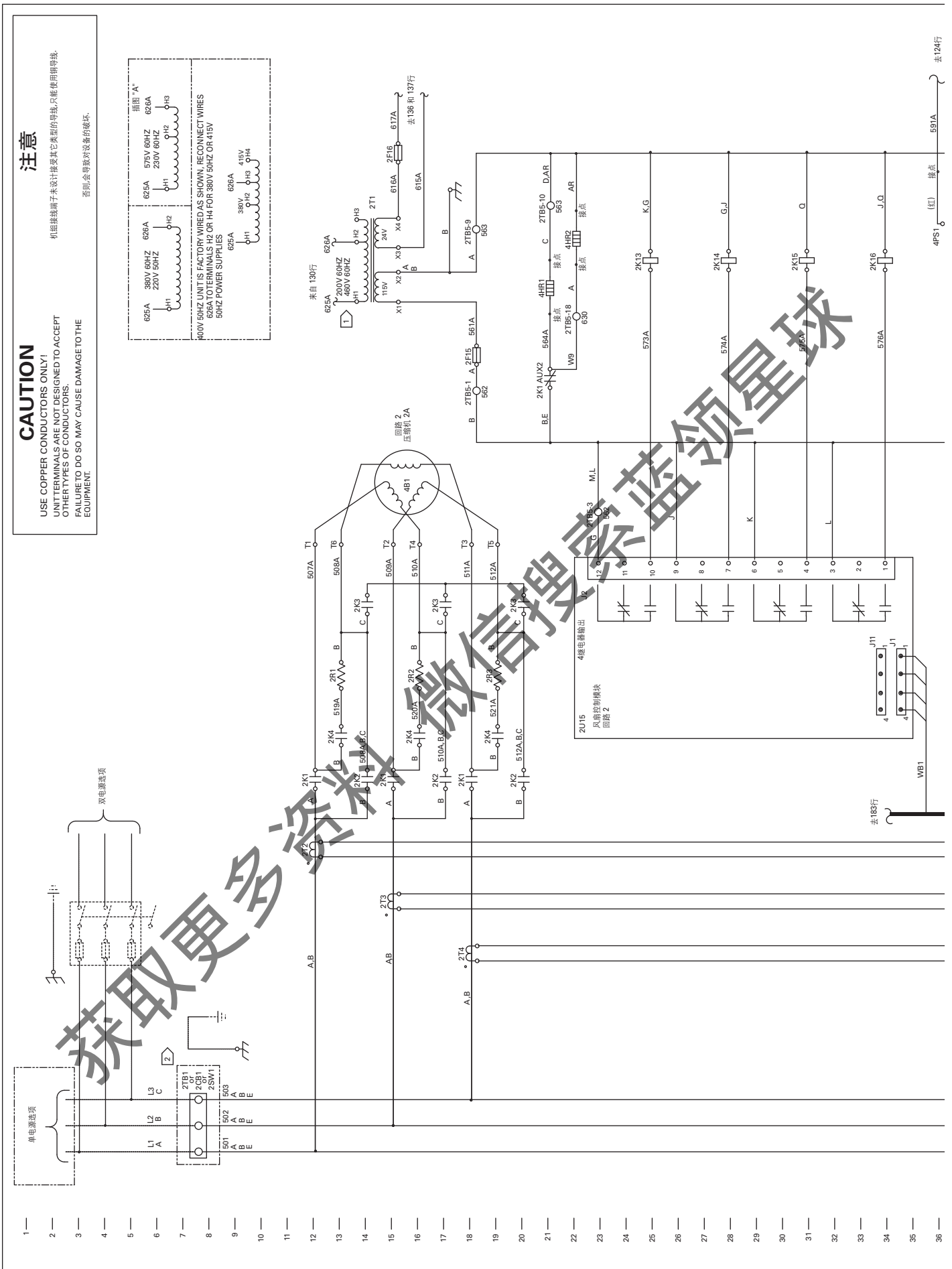
CAUTION

USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

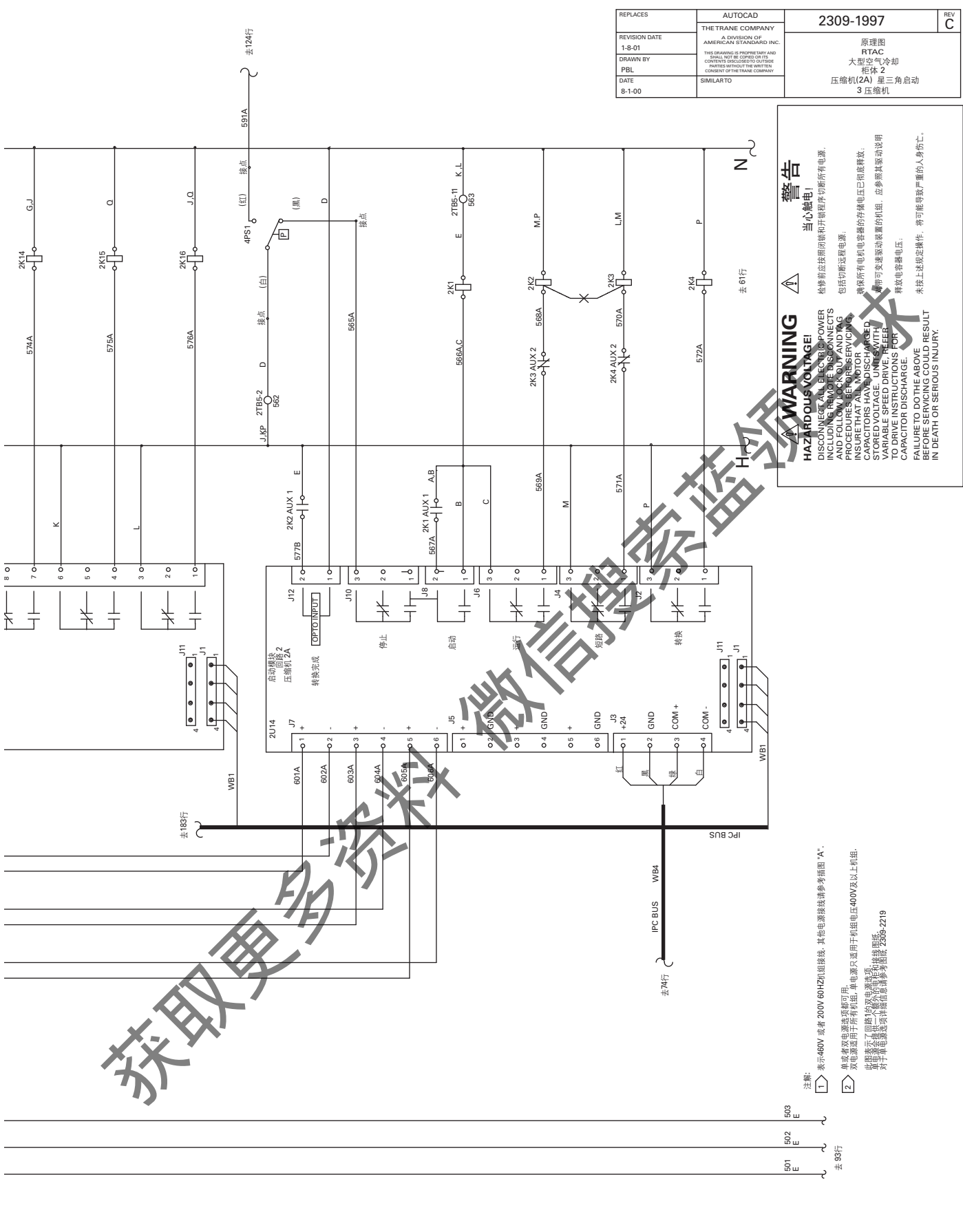
N'UTILISER QUE DES CONDUCTEURS EN CUIVRE!
LES BORNES DE L'UNITÉ NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS.
L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'EQUIPEMENT.

¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE!
LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES.
SI NO LO HACE, PUEDE OCASIONAR DAÑO AL EQUIPO.

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REPLACES	AUTOCAD	2309-1997	REV C
REVISION DATE 1-8-01	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图 RTAC 大型空气冷却 柜式 压缩机(2A)星三角启动 3 压缩机	
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DATE 8-1-00	SIMILARTO		

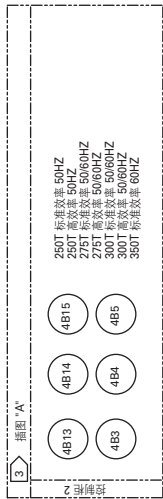
警告
当心触电!

检修前必须按照闭锁和开锁程序切断所有电源。
包括切断远程电源。
确保所有带电电容器的存储电压已彻底释放。
请勿可变速驱动装置的机械, 应参照其驱动说明
释放电容器电压。
本机上未按规定操作, 将可能导致严重的人身伤亡。

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRICAL POWER
INCLUDING REMOTE DISCONNECTS
AND FOLLOW LOCKOUT AND TAG
PROCEDURES BEFORE SERVICING.
INSURE THAT ALL MOTOR
CAPACITORS HAVE DISCHARGED
STORED VOLTAGE. UNITS WITH
VARIABLE SPEED DRIVE, REFER
TO DRIVE INSTRUCTIONS FOR
CAPACITOR DISCHARGE
RELEASE VOLTAGE.

注:
① 表示480V 或者 200V 60HZ加挂接线, 其他电源接法请参考插图 "A".
② 单或者双电源都可使用, 单电源只适用于机柜电压400V及以上机柜。
双电源适用于所有机柜, 单电源只适用于机柜电压400V及以上机柜。
此图展示了回路的电源配置。
单电源系统一个输入电源和接地点。
对于单电源系统, 请参考图例 2309-2219

获取更多资料

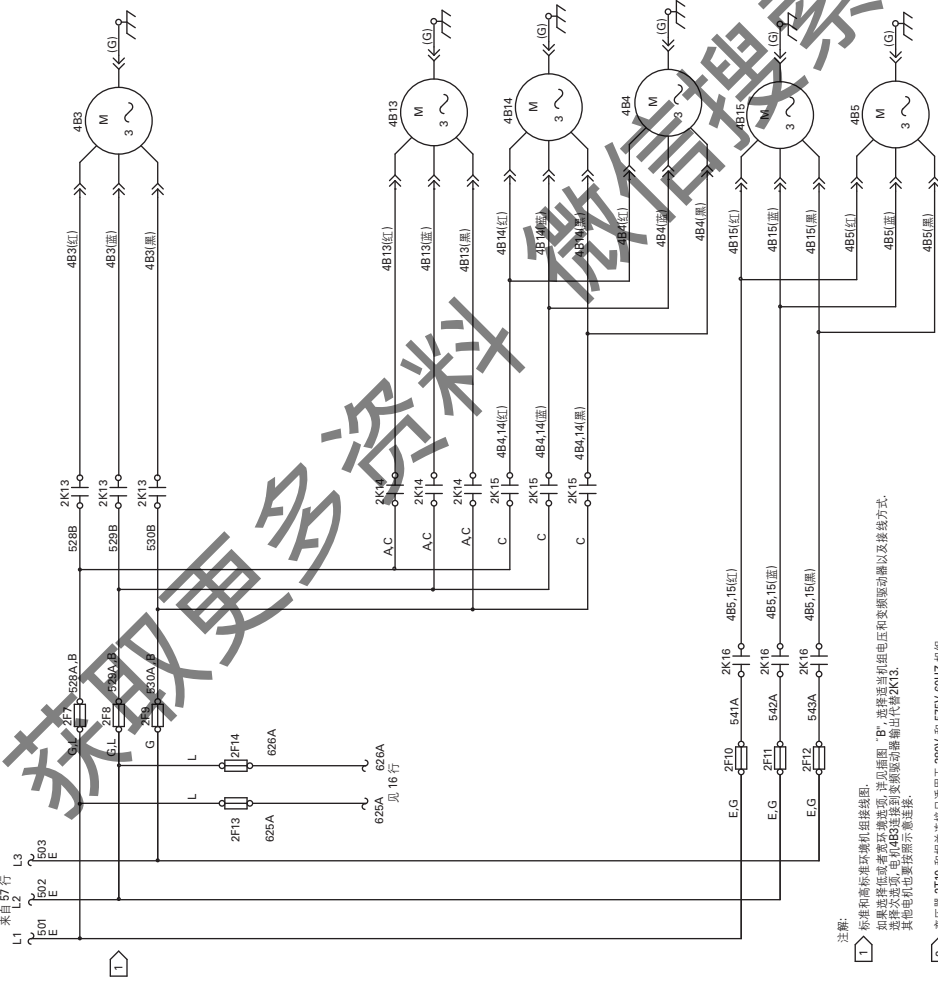


WARNING
HAZARDOUS VOLTAGE!
 DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. ALL DISCHARGED MOTOR CAPACITORS HAVE VARIABLE STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

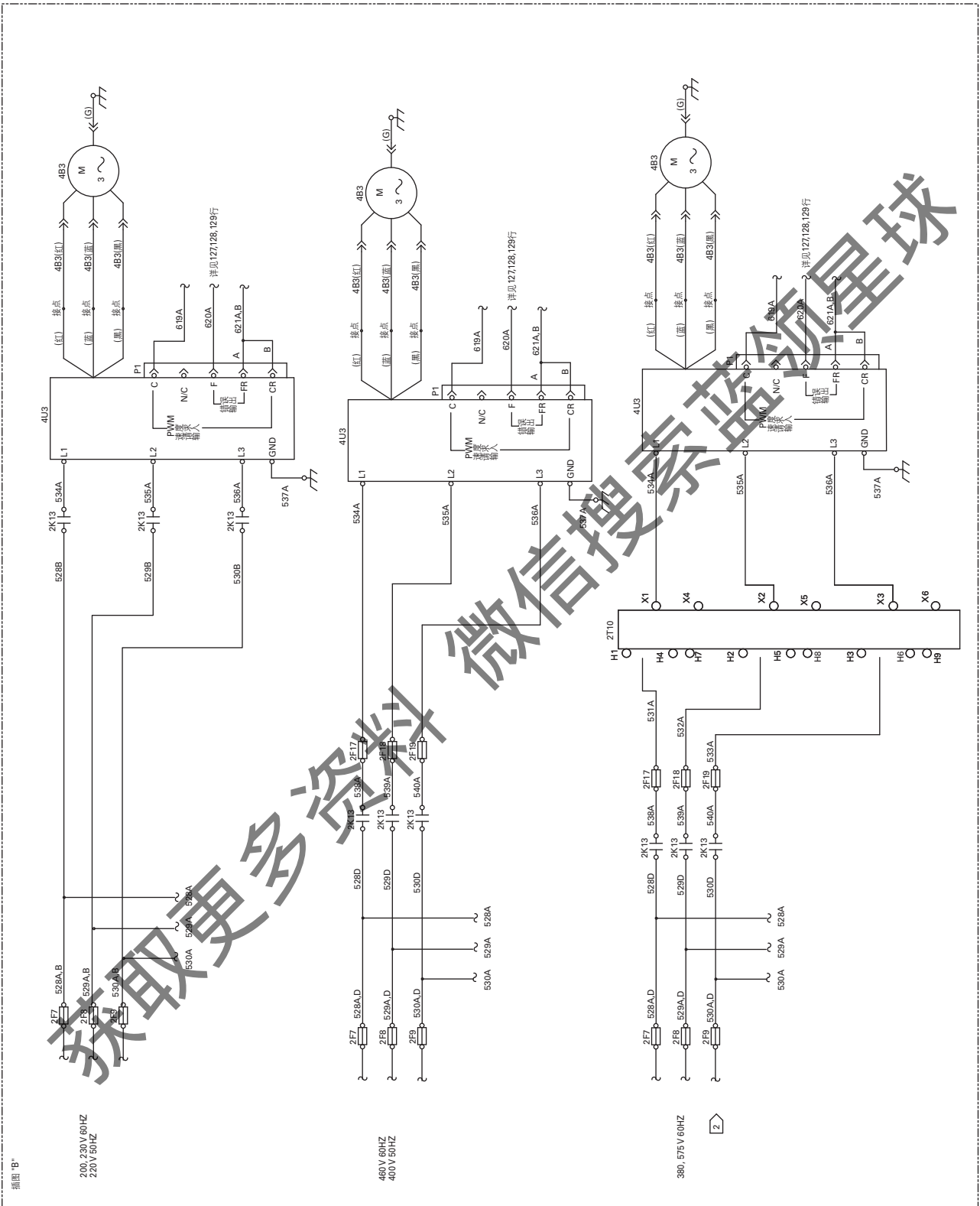
警告
当心触电!
 检修前必须按照规程和开程程序切断所有电源, 包括切断远程电源。
 确保所有电机电容器存储电压已彻底释放, 对带有变速驱动装置的机组, 应参照其驱动说明释放电容器电压。
 未按上述规定操作, 将可能导致严重的人身伤亡。

CAUTION
 USE COPPER CONDUCTORS ONLY! UNITS TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE

注意
 机组接线端子未设计接受其它类型的导线, 只能使用铜导线, 否则会导致对设备的损坏。



REPLACES	AUTOCAD	2309-1999	REV C
REVISION DATE 2-20-01	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图 RTAC 大型空气冷却 风扇 柜体 2 3 压缩机	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR RE- PRODUCED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.		
DATE 8-7-00	SIMILAR TO		



3 风扇防护结构, 请参见图面 "A".

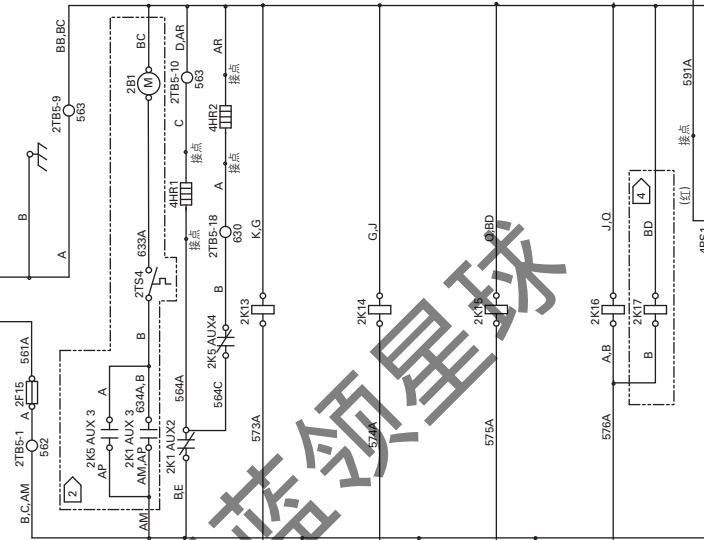
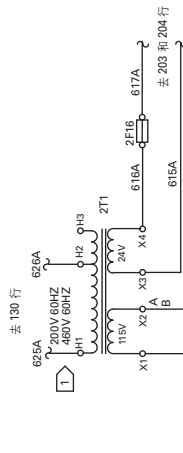
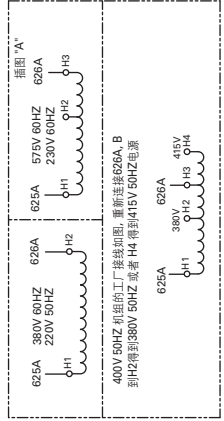
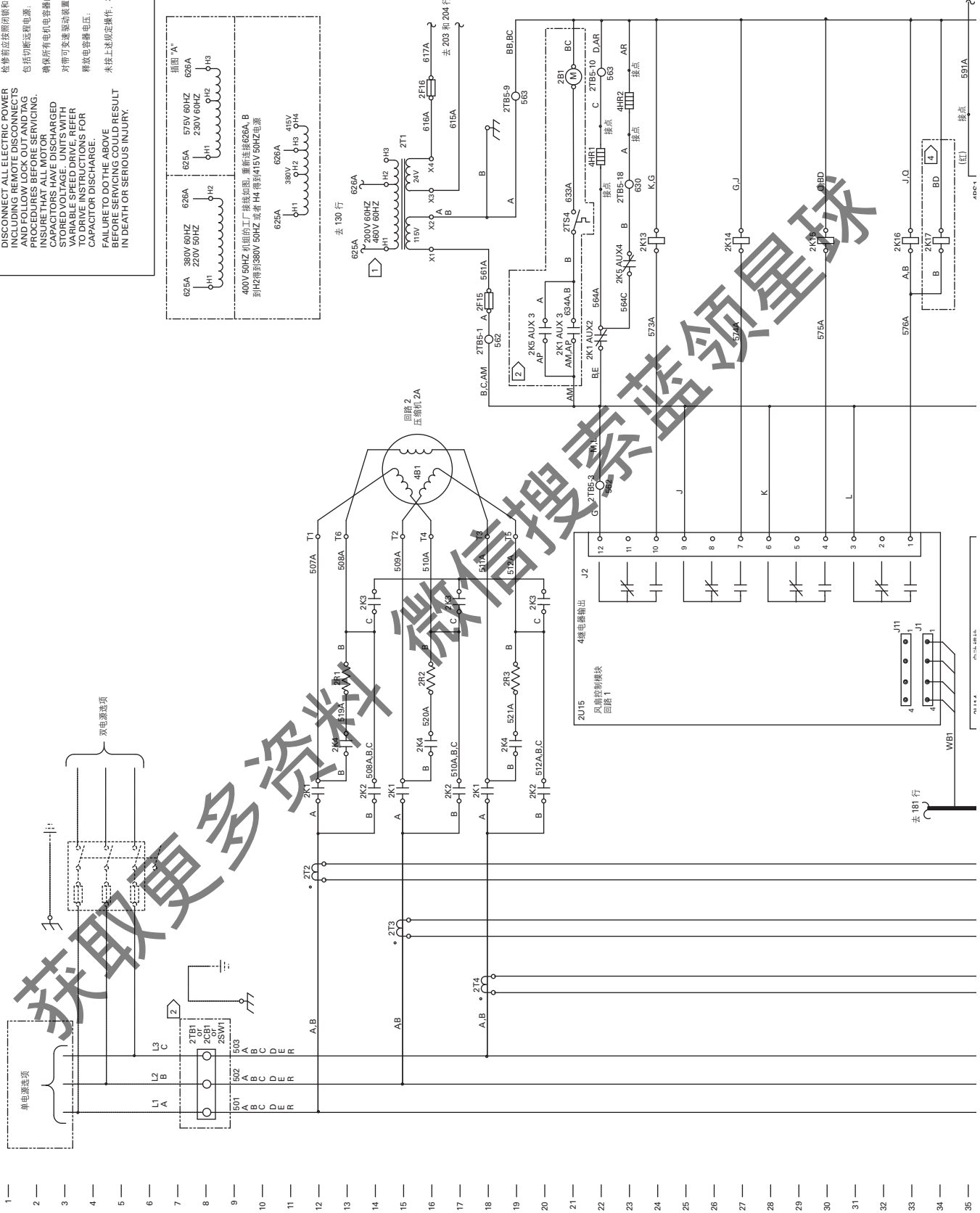
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警告

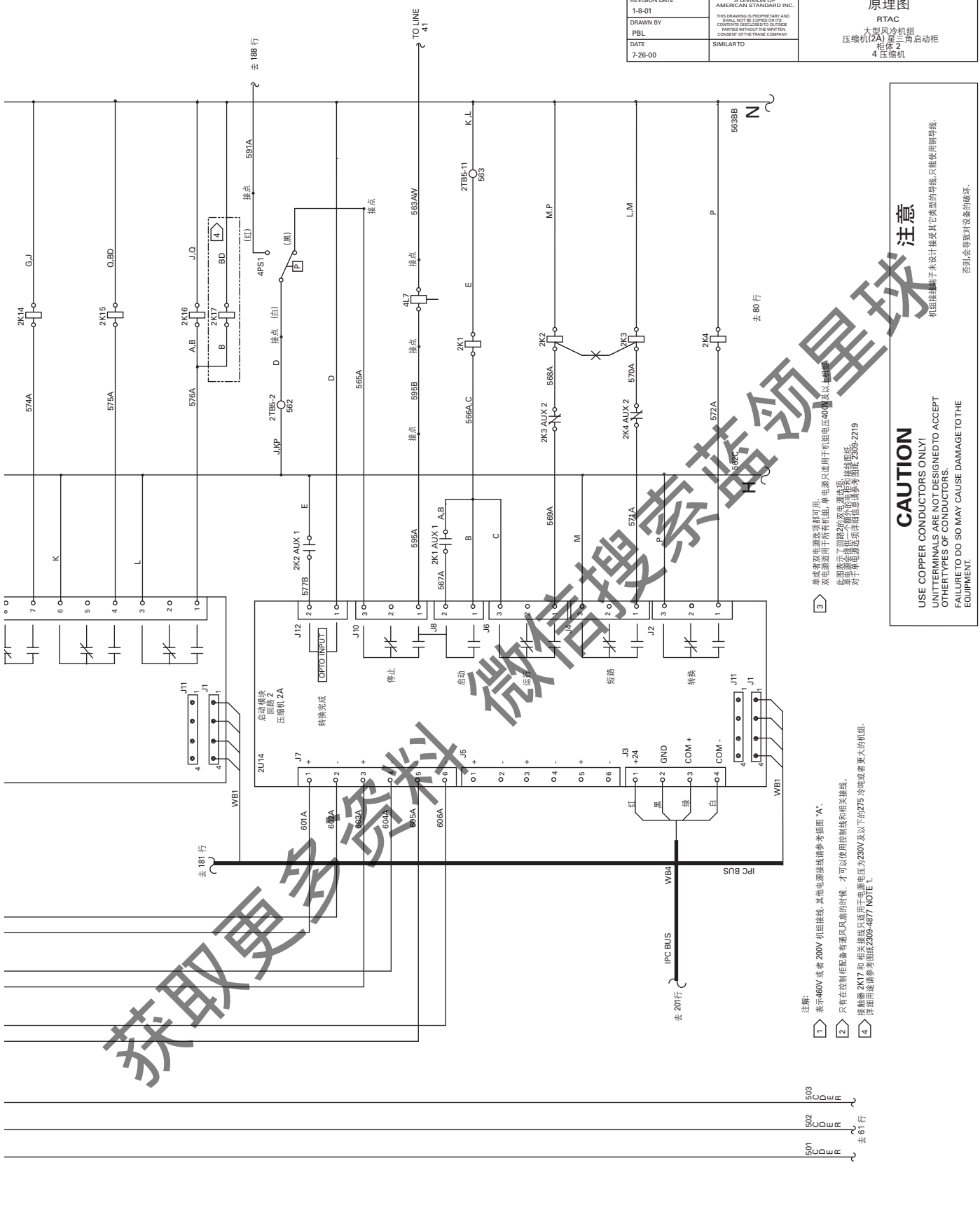


HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS ARE DISCHARGED. STORE VOLTAGE DRIVES WITH VARIABLE SPEED DRIVE REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.

当心触电!
检修前应按照闭锁和开锁程序切断所有电源, 包括切断远程电源。
确保所有电机电容器的存储电压已彻底释放。
对带可变速驱动装置的机组, 应参照其驱动说明释放电容器电压。
未接上述规定操作, 将可能导致严重的人身伤亡。



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REPLACES	AUTOCAD	2309-2203	REV D
REVISION DATE 1-8-01	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND COPYRIGHT © 2001 BY THE TRANE COMPANY. ALL RIGHTS RESERVED. NO PARTS OR DETAILS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.	RTAC 大型风冷机组 压缩机(2ZA)星三角启动柜 4 压缩机	
DATE 7-26-00	SIMILARTO		

③ 单相或双电源选择器可用，单相电源只适用于机组电压400V及以上。
 ④ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。
 ⑤ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。
 ⑥ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。
 ⑦ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。
 ⑧ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。
 ⑨ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。
 ⑩ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。
 ⑪ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。
 ⑫ 单相电源适用于所有机组，单相电源只适用于机组电压400V及以上。

注意
 机组接线端子未设计接受其它类型的导线，只能使用铜导线。
 否则会导致对设备的破坏。

CAUTION
 USE COPPER CONDUCTORS ONLY!
 UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT
 OTHER TYPES OF CONDUCTORS.
 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE
 EQUIPMENT.

① 表示480V或者200V机组接线，其他电源线请参考插图“A”；
 ② 只有在控制柜配有通风风扇的时候，才可以使用控制线和相关接线。
 ③ 接触器2K17和相关的接线只适用于电源电压为230V及以下的275冷吨或者更大的机组。
 ④ 详细用途请参考插图2309-4877 NOTE 1。

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注意

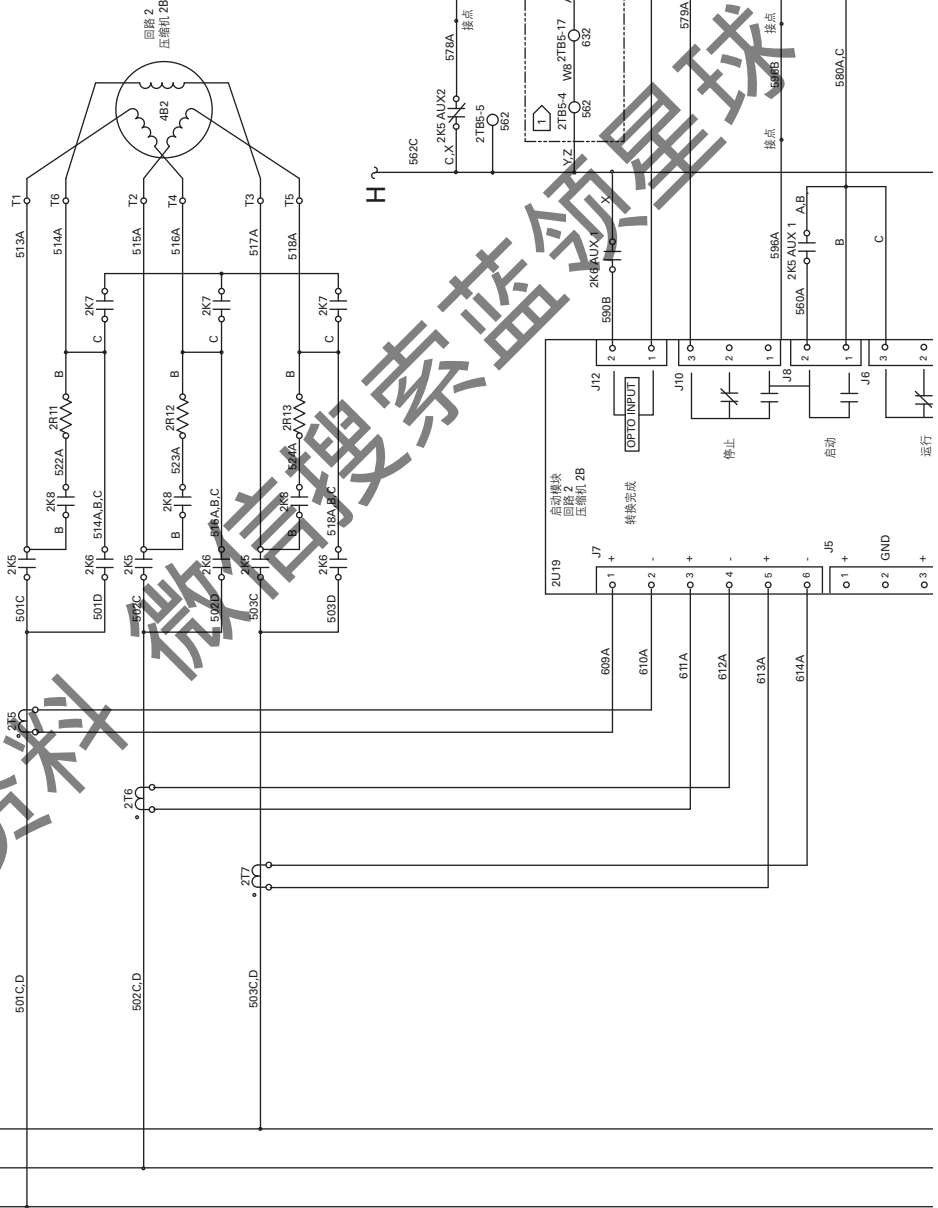
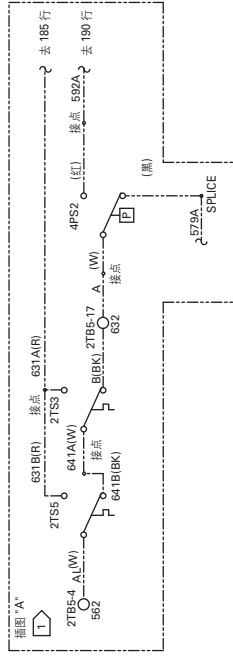
机组接线端子未设计接受其它类型的导线,只能使用铜导线。
否则,会导致对设备的损坏。

CAUTION

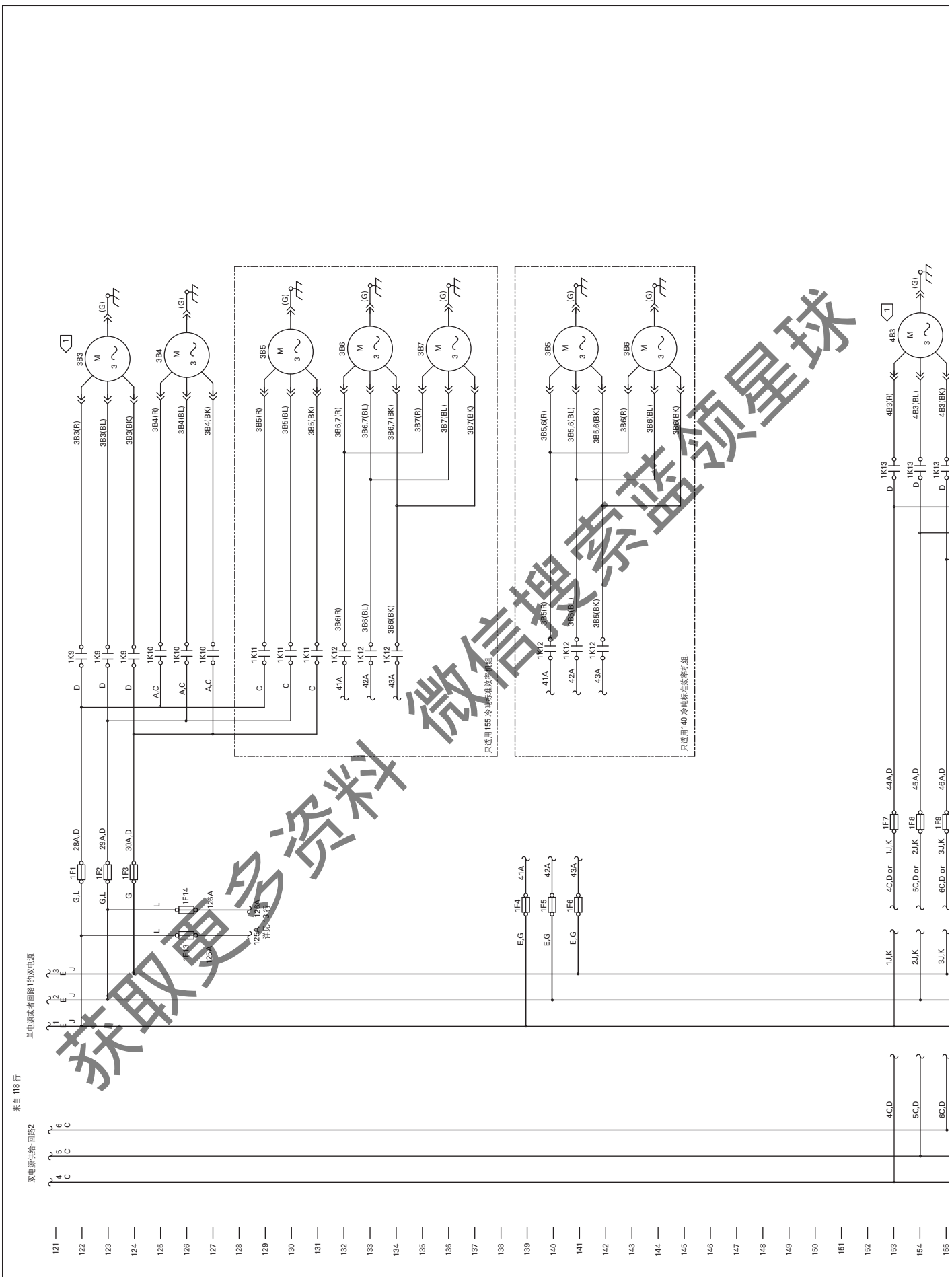
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT
OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE
EQUIPMENT.

来自 57 行

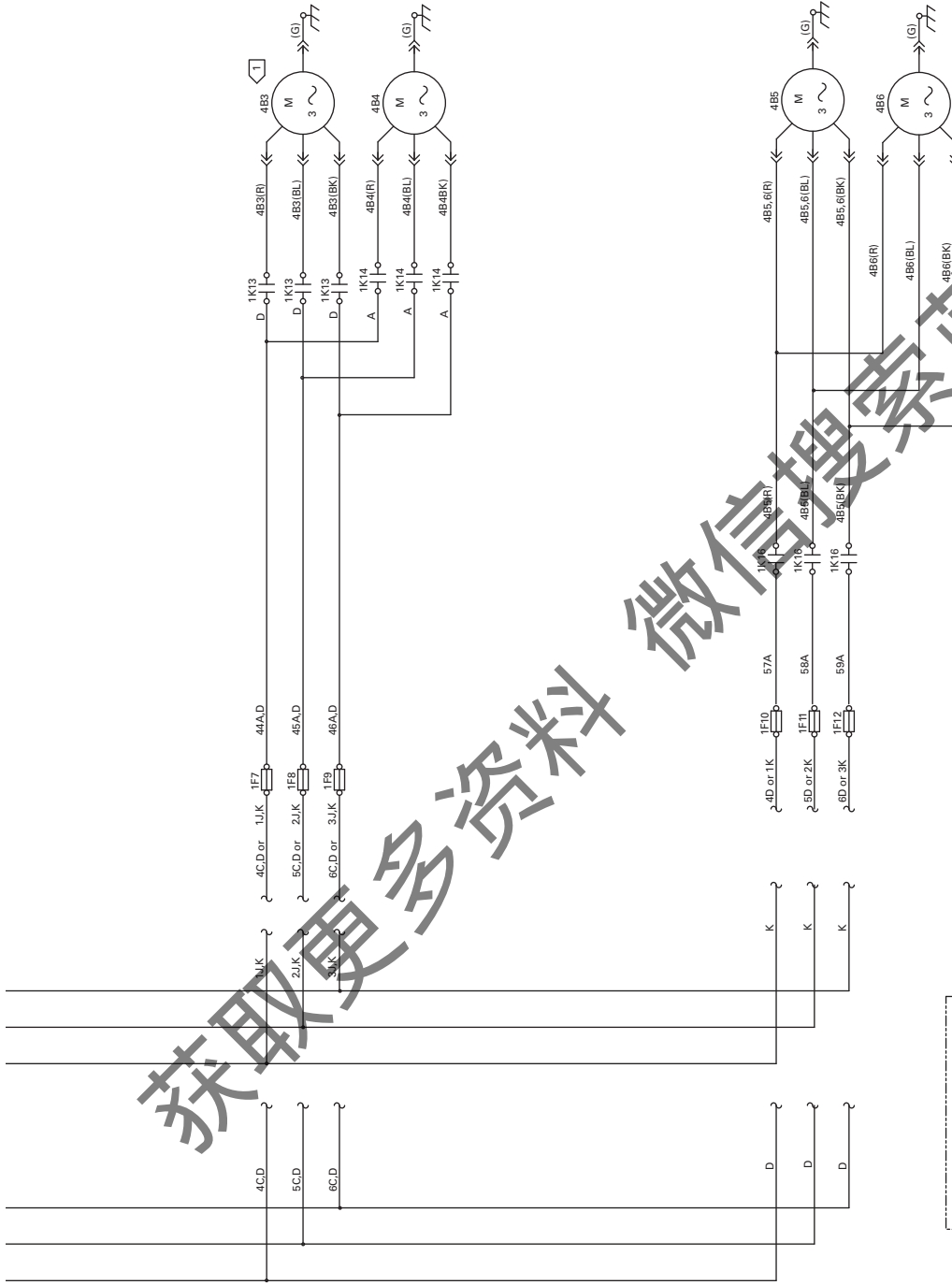
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REPLACES 2309-1955	AUTOCAD THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	2309-2241	REV C
REVISION DATE 03-09-01	THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.	原理图	
DRAWN BY PBL	SIMILAR TO	RTAC 中型风冷机组 风扇 140 和 155T 标准效率机组	
DATE 01-03-01			



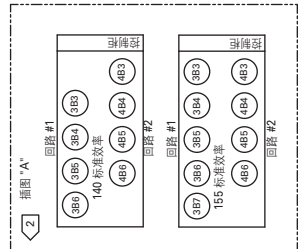
CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT
OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE
EQUIPMENT.

注意
请使用铜导线!
单元端子不是为其他类型的导线设计的。
使用其他类型的导线可能会导致设备损坏。

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS
BEFORE SERVICING. SERVICING
PROCEDURES BEFORE SERVICING.
INSURE THAT ALL MOTOR
CAPACITORS HAVE DISCHARGED
STORED VOLTAGE. UNITS WITH
VARIABLE SPEED DRIVE REFER
TO THE SERVICE MANUALS FOR
CAPACITOR DISCHARGE
PROCEDURES.
FAILURE TO DO THE ABOVE
BEFORE SERVICING COULD RESULT
IN DEATH OR SERIOUS INJURY.

警告
当心触电!
检修前应断开电源并切断所有电源。
包括任何远程电源。
确保所有电机电容器的存储电压已彻底释放。
对带有变速驱动装置的机组, 应参照其驱动说明
释放电容器电压。
未按上述规定操作, 将可能导致严重的人身伤亡。

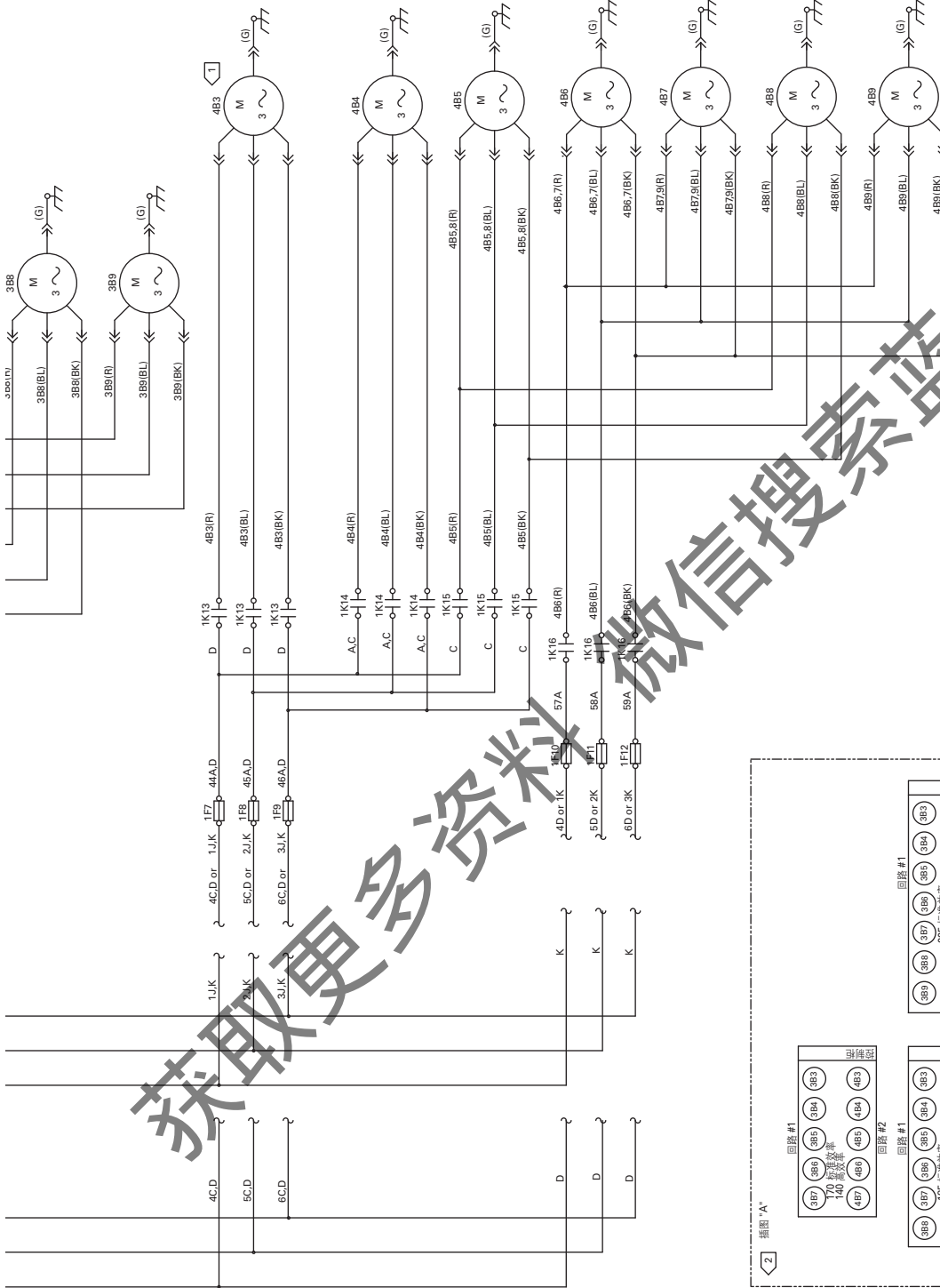
注: 1 如图示的, 没有配置低温和高温选项的机组的风扇3B3 和 4B3。
2 参考图册2309-2245是配置低温和高温选项的机组的风扇3B3 和 4B3的接线图。
所有风扇接线如图。
各种吨位和效率机组的风扇防护接线请参考插图 "A"。



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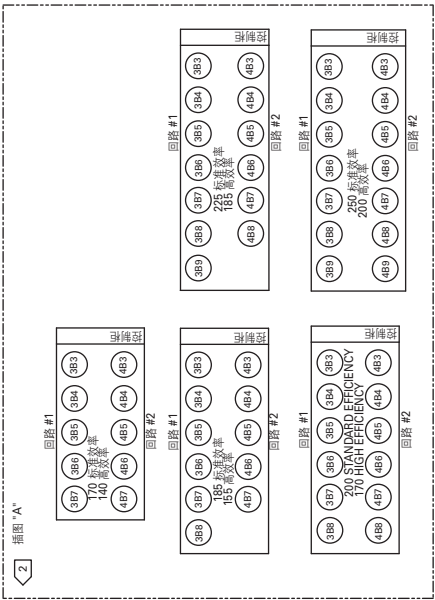
REPLACES 2309-1956	AUTOCAD THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	2309-2242	REV D
REVISION DATE 6-6-01	DRAWN BY PBL	RTAC 中型风冷机组 原理图 风扇接线图	
DATE 01-03-01	SIMILAR TO	170,185,200,225 & 250 标准效率 140,155,170,185 & 200 超高效	



警告
当心触电!

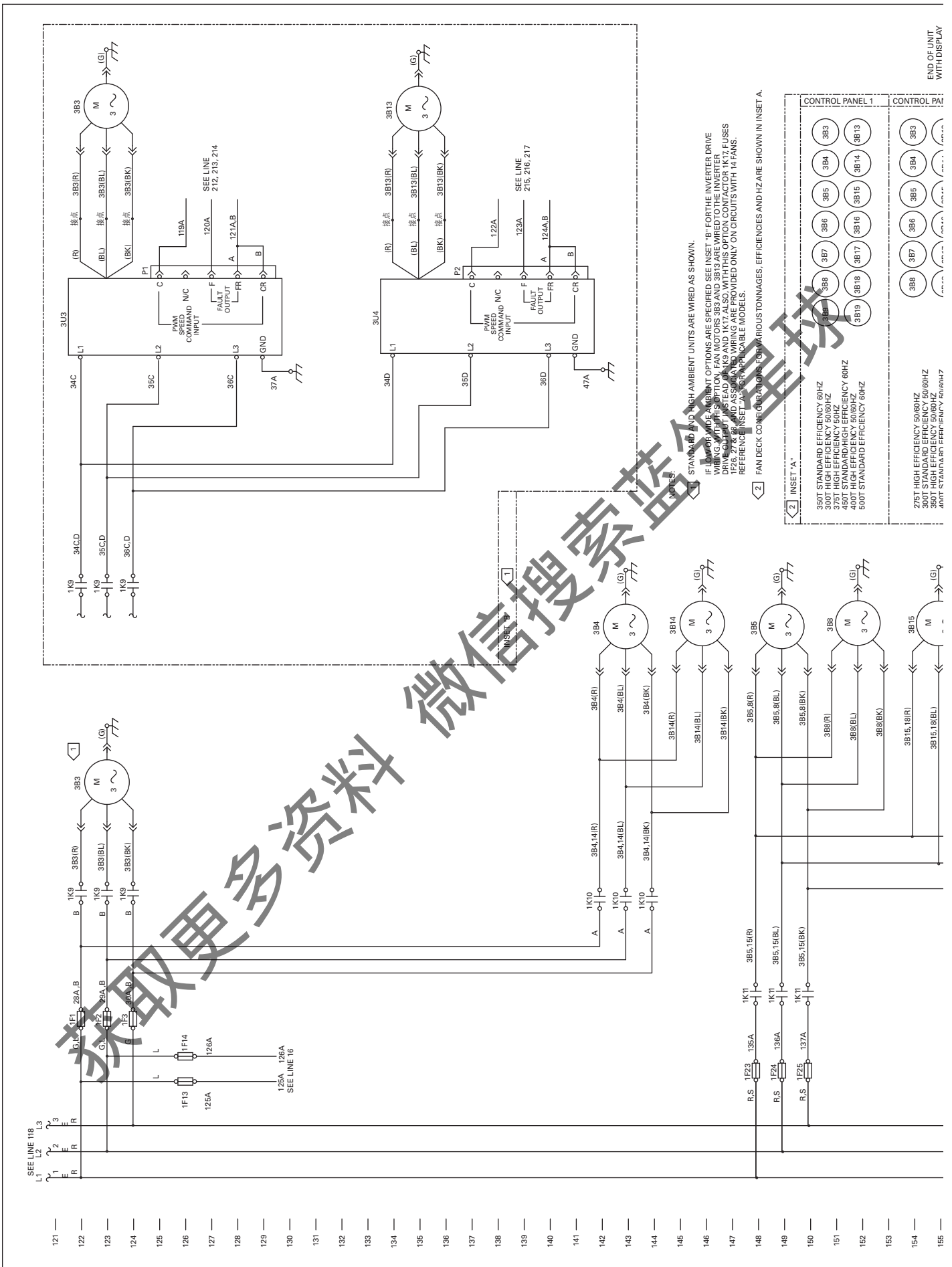
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE CONTROL DEVICES BEFORE SERVICING. INSURE THAT ALL MOTOR STORED VOLTAGE UNITS WITH VARIABLE SPEED DRIVE, REFER TO CAPACITOR DISCHARGE PROCEDURE FOR CAPACITOR DISCHARGE FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

检修前应断开电源并切断所有电源。
包括切断远程控制设备。
确保所有电机电容器的存储电压已彻底释放。
对于变频驱动装置的机组，应参照其驱动说明中的电容器放电程序。
未按要求操作，将可能导致严重的人身伤亡。

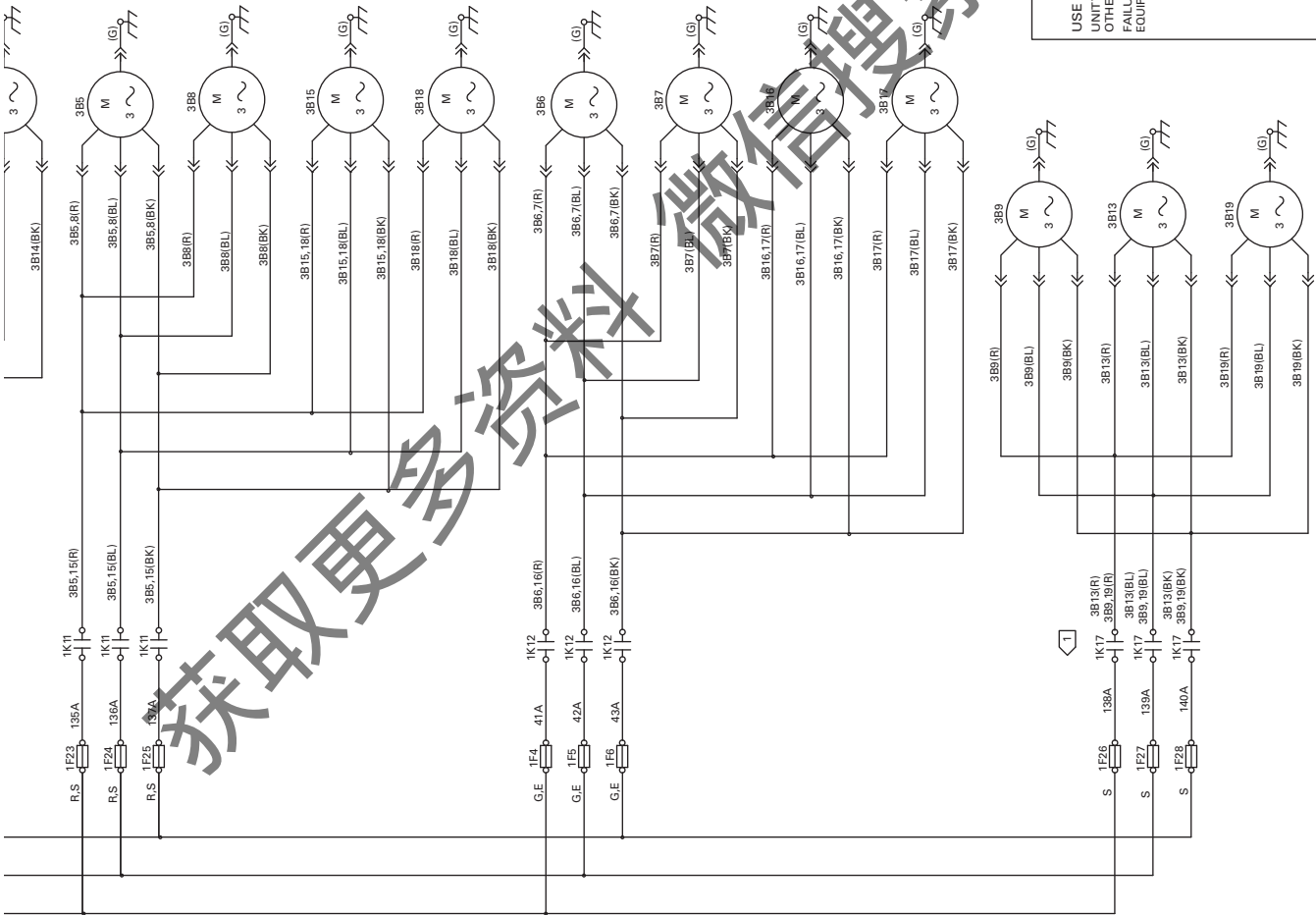


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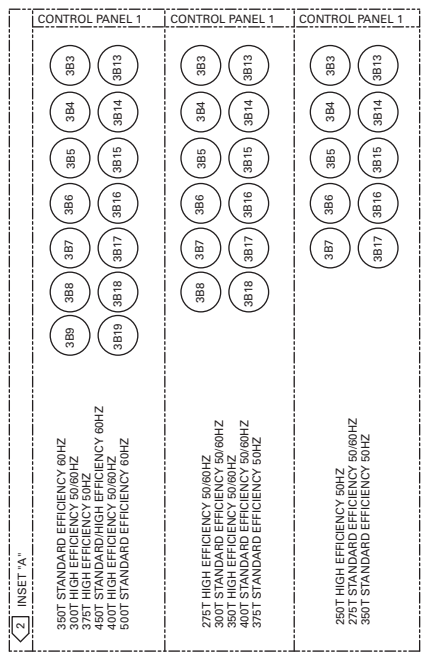




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IF LOW OR WIDE AMBIENT OPTIONS ARE SPECIFIED SEE INSET "B" FORTH INVERTER DRIVE
 (1) GROUNDING FOR THIS TYPE OF INVERTER DRIVE IS PROVIDED BY THE MANUFACTURER. FUSES
 DRIVEN INTO THIS SPACE OF 140 AND 145. 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, AND ASSOCIATED WIRING ARE PROVIDED ONLY ON CIRCUITS WITH 14 FANS.
 REFERENCE INSET "A" FOR APPLICABLE MODELS.
 (2) FAN DECK CONFIGURATIONS FOR VARIOUS TONNAGES, EFFICIENCIES AND HZ ARE SHOWN IN INSET "A".



END OF UNIT.
WITH DISPLAY

REPLACES	AUTOCAD	2309-4876	REV B
REVISION DATE	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	SCHEMATIC	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND UNLESS NOTED OTHERWISE, IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.	RTAC LARGE AIR COOLED PANEL 1 THREE OR FOUR COMPRESSORS 200V, 220V, 230V	
DATE 5-4-01	SIMILARTO		

WARNING
HAZARDOUS VOLTAGE!
 DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. CAPACITORS AND MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFERTO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

AVERTISSEMENT
TENSION DANGEREUSE!
 COUPER TOUTES LES TENSIONS ET OUVRIER LES SECTIONNEURS A DISTANCE. PUIS SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT DE SERVICER. LES CONDENSATEURS DES MOTEURS SONT DECHARGES. DANS LE CAS D'UNITES A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAINEMENT POUR DECHARGER LES CONDENSATEURS. NE PAS RESPECTER CES MESURES DE SECURITE PEUT ENTRAÎNER DES BLESSURES GRAVES POSSIVANT E TRE MORTELLES.

ADVERTENCIA
VOLTAJE PELIGROSO!
 DESCONECTE TODA LA ENERGIA ELECTRICA INCLUIDOS LOS SECCIONNEURS A DISTANCIA Y SIGA LOS PROCEDIMIENTOS DE CERRER Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN SIDO DESCARGADO EL VOLTAJE ALMACENADO. EN CAS DE UNIDADES CON VELOCIDAD VARIABLE CONSULTA LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRIA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.

CAUTION
 USE COPPER CONDUCTORS ONLY. UNITERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

注意
 机组接线端子未设计接受其它类型的导线, 只能使用铜导线。否则会导致对设备的破坏。





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注：此图表示了标准和高效率机组。详见图B，表示了低效率或效率项目的变频机组。注意变频驱动风扇电机3B5要替代NO直接到变频输出端。

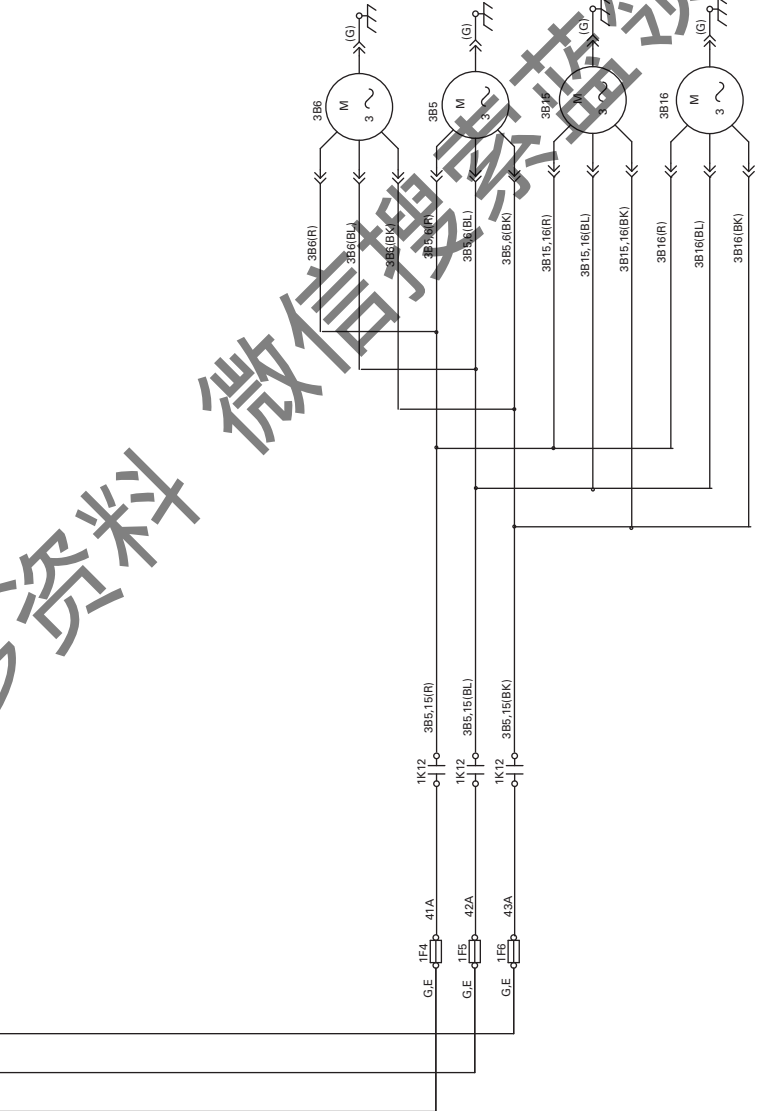
1 机器的风扇保护结构，效率和频率请参考插图“A”。

获取更多资料 微信搜索 领星球

REPLACES	AUTOCAD	2309-2217	REV C
REVISION DATE 2-9-01	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.	RTAC 大型风冷机组 柜体1 风扇 250T 50Hz 标准效率 3 压缩机	
DATE 7-19-00	SIMILAR TO		

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND LOCK THE UNIT BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. REFERTO DRIVE SPEED DRIVE, REFERTO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

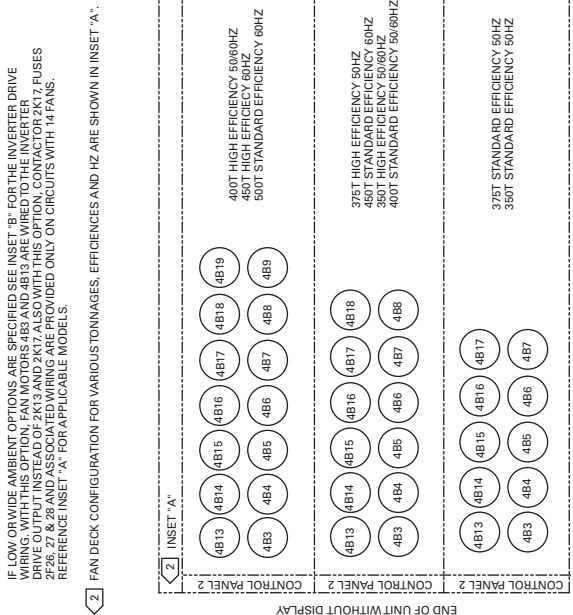
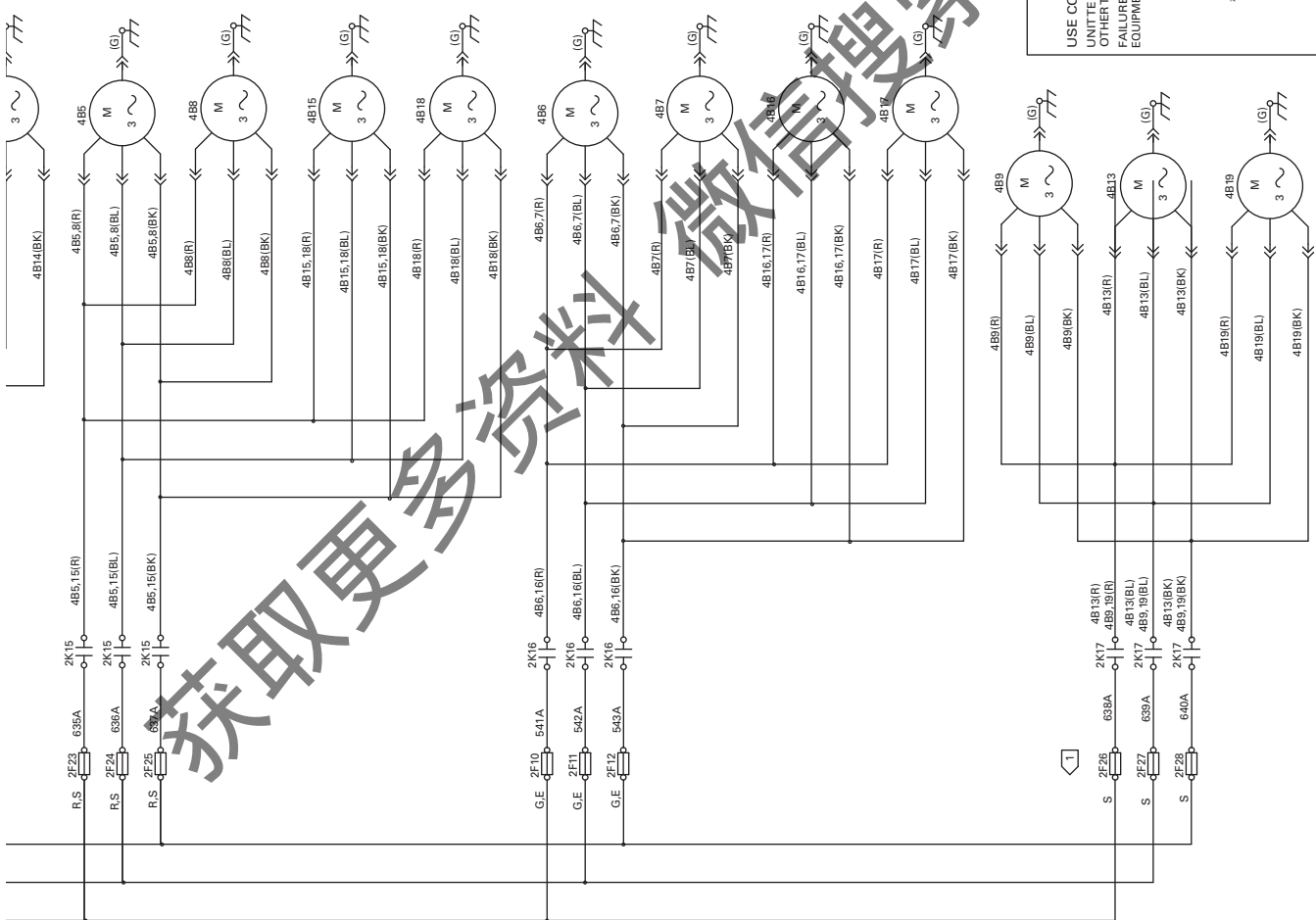
警告
当心触电!
检修前应按照闭锁和开锁程序切断所有电源，包括切断远程电源。
确保所有电机电容器的存储电压已彻底释放。所有可变速度驱动装置的机组，应参照驱动说明释放电容器电压。
未接上述规定条件，将可能导致严重的人身伤亡。



注意
机组长端子未设计接受其它类型的导线，只能使用铜导线。否则会导致对设备的破坏。

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

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IF LOW AMBIENT OPTIONS ARE SPECIFIED SEE INSET 'B' FOR THE INVERTER DRIVE WIRING. THE FAN SPEEDS (4B5, 4B6, 4B7, 4B8, 4B9) ARE WIRING TO THE INVERTER DRIVE OUTPUT INSTEAD OF 2K13 AND 2K17. ALSO WITH THIS OPTION, CONTACTOR 2K17 FUSES 2F26, 27 & 28 AND ASSOCIATED WIRING ARE PROVIDED ONLY ON CIRCUITS WITH 14 FANS. REFERENCE INSET 'A' FOR APPLICABLE MODELS.

2 FAN DECK CONFIGURATION FOR VARIOUS TONNAGES, EFFICIENCIES AND HZ ARE SHOWN IN INSET 'A'.

REPLACES	AUTOCAD	2309-4877	REV C
REVISION DATE 8-21-02	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	SCHEMATIC	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND ORIGINALS ARE TO BE KEPT ON FILE. COPIES MAY BE MADE FOR OTHER PARTIES WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.	RTAC LARGE AIR COOLED	
DATE 5-16-01	SIMILAR TO	PANEL 2 FANS FOUR COMPRESSORS 200V, 220V, 230V	

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE CONNECTIONS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

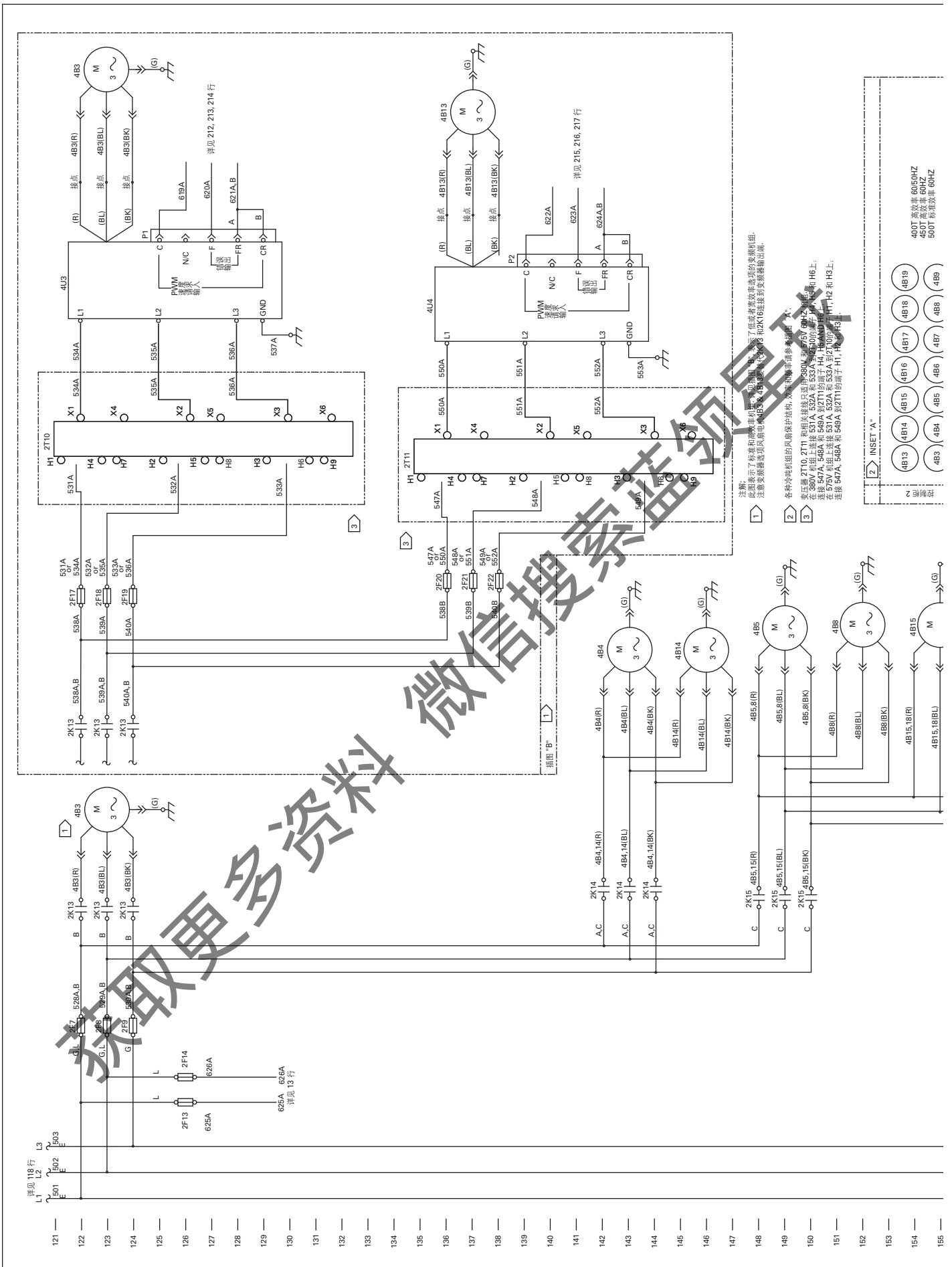
AVERTISSEMENT
TENSION DANGEREUSE!
COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS A DISTANCE, Y COMPRIS LES SECTIONNEURS EN LOI. SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT TOUTE INTERVENTION. VERIFIER QUE TOUTS LES CONDENSATEURS DES MOTEURS SONT DECHARGES. DANS LE CAS D'UNITE A COMPORTANT DES ENTRAINEMENTS A VITESSE VARIABLE, SE REFERER AUX INSTRUCTIONS DE L'ENTRAINEMENT POUR DECHARGER LES CONDENSATEURS. NE PAS RESPECTER CES MESURES DE PRECAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ETRE MORTELLES.

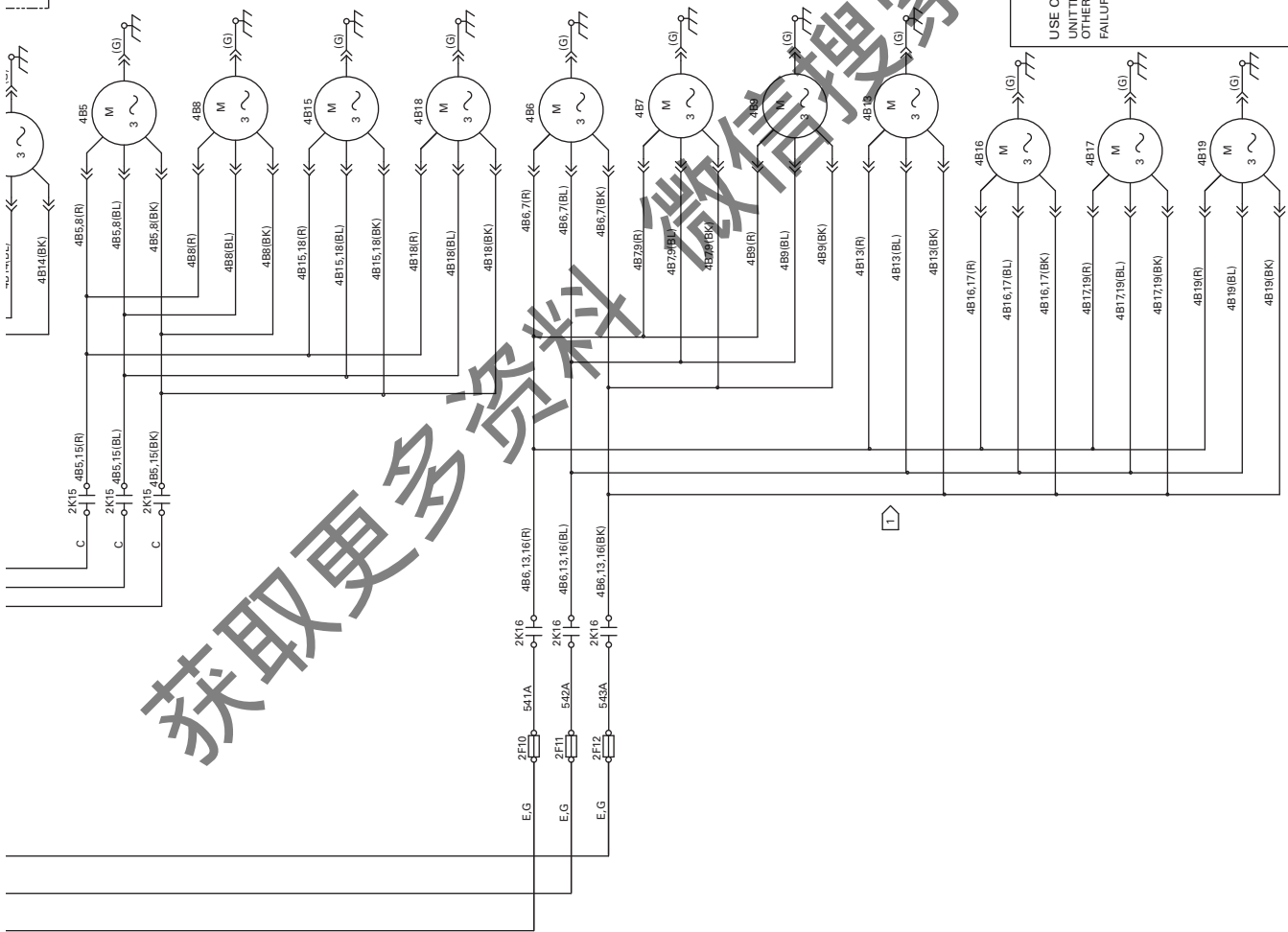
ADVERTENCIA
¡VOLTAJE PELIGROSO!
DESCONECTE TODA LA ENERGÍA ELÉCTRICA INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CONDENSADORES DE LOS MOTORES HAYAN SIDO DEBIDAMENTE DESCARGADOS. PARA LAS UNIDADES CON EJE DE DIRECCIÓN DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES.

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

注意
机接线端子未设计接受其它类型的导线, 只能使用铜导线。
否则, 会导致对设备的损坏。







- 1 注：此图表示了标准和高效电机。详细图“B”表示了低效率电机选项的变频电机。
注：变频选项以扇形电机4B3及4B13替代2K13和2K16连接到变频输出端。
- 2 各冷电机组的风扇保护结构、效率和频率请参考图“A”。
- 3 变频器 Z110, Z111 和相线接线只适用 380V 和 575V 60Hz 系列。所有电机都连接 50A, 522A, 和 532A 到 H4, H5, H6 和 H6 上。在 380V 电机上连接 531A, 532A 和 533A 到 Z110 的端子 H1, H2 和 H3 上。在 575V 电机上连接 547A, 548A 和 549A 到 Z111 的端子 H1, H2 和 H3 上。

INSET "A"															
控制柜 1	<table border="1"> <tr><td>4B13</td><td>4B14</td><td>4B15</td><td>4B16</td><td>4B17</td><td>4B18</td><td>4B19</td></tr> <tr><td>4B3</td><td>4B4</td><td>4B5</td><td>4B6</td><td>4B7</td><td>4B8</td><td>4B9</td></tr> </table>	4B13	4B14	4B15	4B16	4B17	4B18	4B19	4B3	4B4	4B5	4B6	4B7	4B8	4B9
4B13	4B14	4B15	4B16	4B17	4B18	4B19									
4B3	4B4	4B5	4B6	4B7	4B8	4B9									
控制柜 2	<table border="1"> <tr><td>4B13</td><td>4B14</td><td>4B15</td><td>4B16</td><td>4B17</td><td>4B18</td><td>4B19</td></tr> <tr><td>4B3</td><td>4B4</td><td>4B5</td><td>4B6</td><td>4B7</td><td>4B8</td><td>4B9</td></tr> </table>	4B13	4B14	4B15	4B16	4B17	4B18	4B19	4B3	4B4	4B5	4B6	4B7	4B8	4B9
4B13	4B14	4B15	4B16	4B17	4B18	4B19									
4B3	4B4	4B5	4B6	4B7	4B8	4B9									
控制柜 2	<table border="1"> <tr><td>4B13</td><td>4B14</td><td>4B15</td><td>4B16</td><td>4B17</td><td>4B18</td><td>4B19</td></tr> <tr><td>4B3</td><td>4B4</td><td>4B5</td><td>4B6</td><td>4B7</td><td>4B8</td><td>4B9</td></tr> </table>	4B13	4B14	4B15	4B16	4B17	4B18	4B19	4B3	4B4	4B5	4B6	4B7	4B8	4B9
4B13	4B14	4B15	4B16	4B17	4B18	4B19									
4B3	4B4	4B5	4B6	4B7	4B8	4B9									

400T 高效率 60/50Hz
450T 标准效率 60Hz
500T 标准效率 60Hz

375T 高效率 50Hz
450T 标准效率 60Hz
350T 标准效率 50/60Hz
400T 标准效率 50/60Hz

375T 标准效率 50Hz
380T 标准效率 50Hz

REPLACES	AUTOCAD	2309-2205	REV C
REVISION DATE 2-9-01	THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	原理图 RTAC 大型风冷机组 柜体之风扇 4-风扇	
DRAWN BY PBL	THIS DRAWING IS PROPRIETARY AND ORIGINALS MUST BE CONTROLLED. COPIES MUST BE CONTROLLED. PARTS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY MAY BE USED AT THE USER'S RISK.	380V, 400V, 460V, 575V	
DATE 7-26-00	SIMILAR TO		

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND ALL OTHER ELECTRICAL DEVICES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

警告
当心触电!
检修前应断开电源并切断所有电源。包括切断变频器电源。
确保所有电机电容器的存储电压已彻底释放。带有变频驱动装置的机组，应参阅其驱动说明释放电容器电压。
未按规定操作，将可能导致严重的人身伤亡。

CAUTION
USE COPPER CONDUCTORS ONLY. UNITERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE UNIT.

注意
机组接线端子未设计接受其它类型的导线，只能使用铜导线。
否则会导致对设备的破坏。

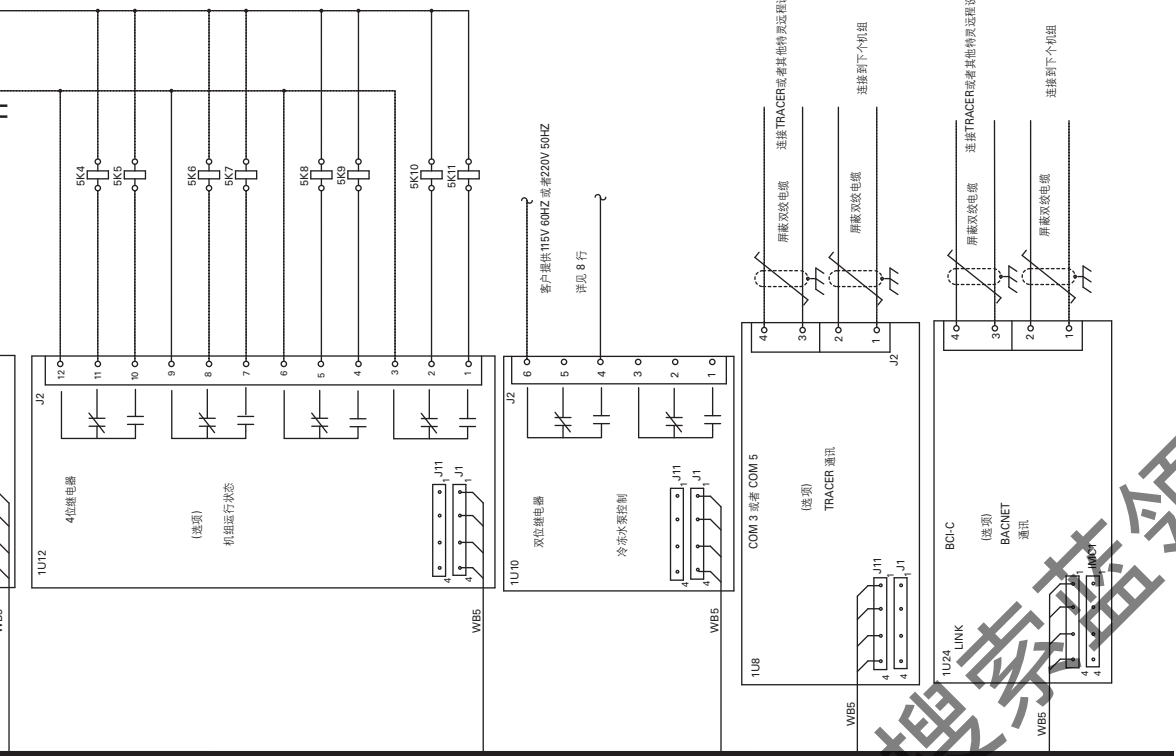




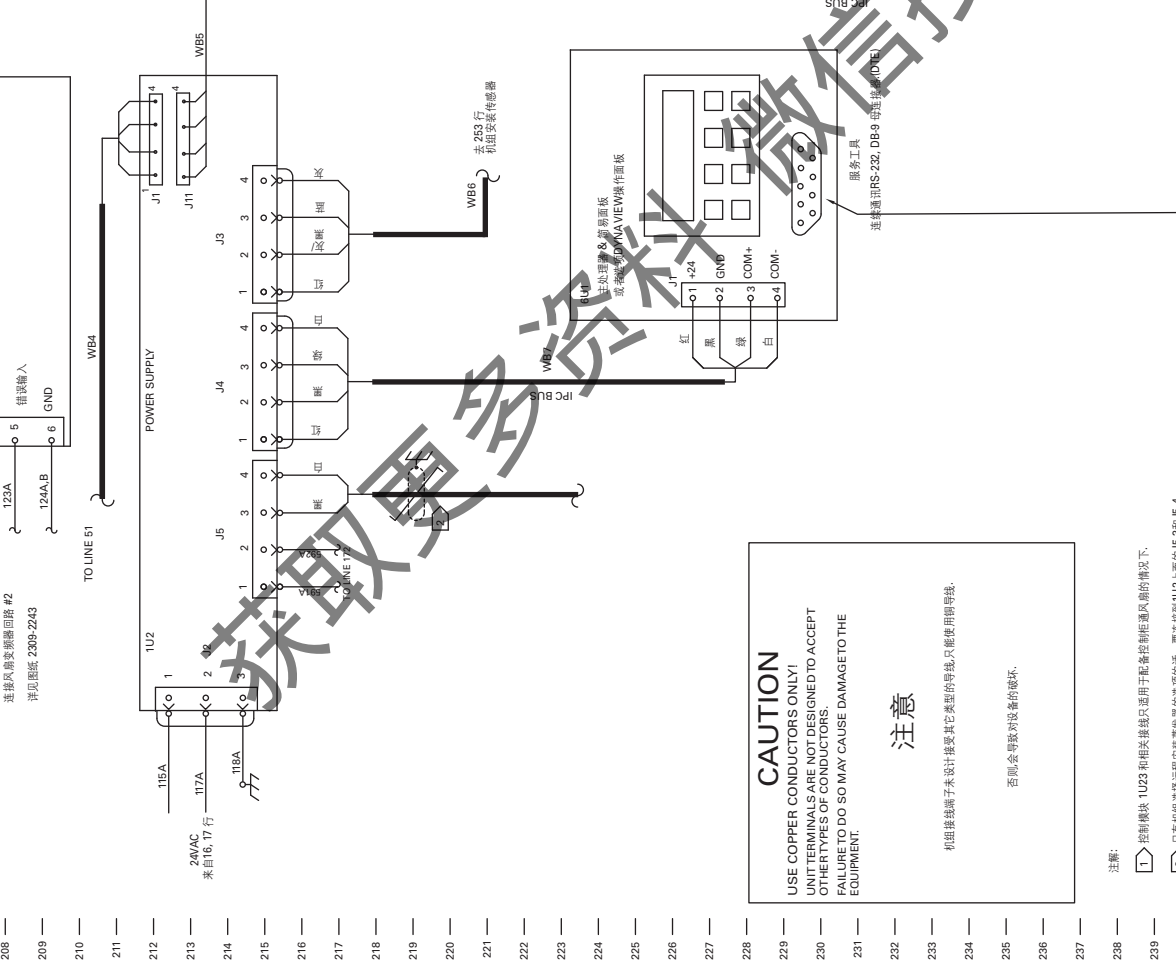
UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCE:
 X.X = ± .1
 X.XX = ± .05
 X.XXX = ± .01
 ANGLES = ± .5°
 ~ HOLE DIA = .005
 CONFORMS TO ASMEY14.5M - 1994

TRANE
 THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF TRANE
 DRAWN BY: PBL TRANE DATE: 12-03-01
 DO NOT SCALE PRINT
 THIRD ANGLE PROJECTION

23091352 SHEET 1 OF 1 REV F
 原理图
 RTAC, 中/大 风冷机组
 控制
 双压缩机



警告
HAZARDOUS VOLTAGE!
当心触电!
 检修前应按照规程和开锁程序切断所有电源。包括切断远控电源。
 DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTORS ARE KEPT STORED VOLTAGE UNITS WITH VARIABLE SPEED DRIVE REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE.
 确保所有电机电容器的存储电压已彻底释放。对可变速度驱动装置的机组，应参照其驱动说明释放电容器电压。
 FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.



CAUTION
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 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.
注意
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 否则会导致对设备的损坏。

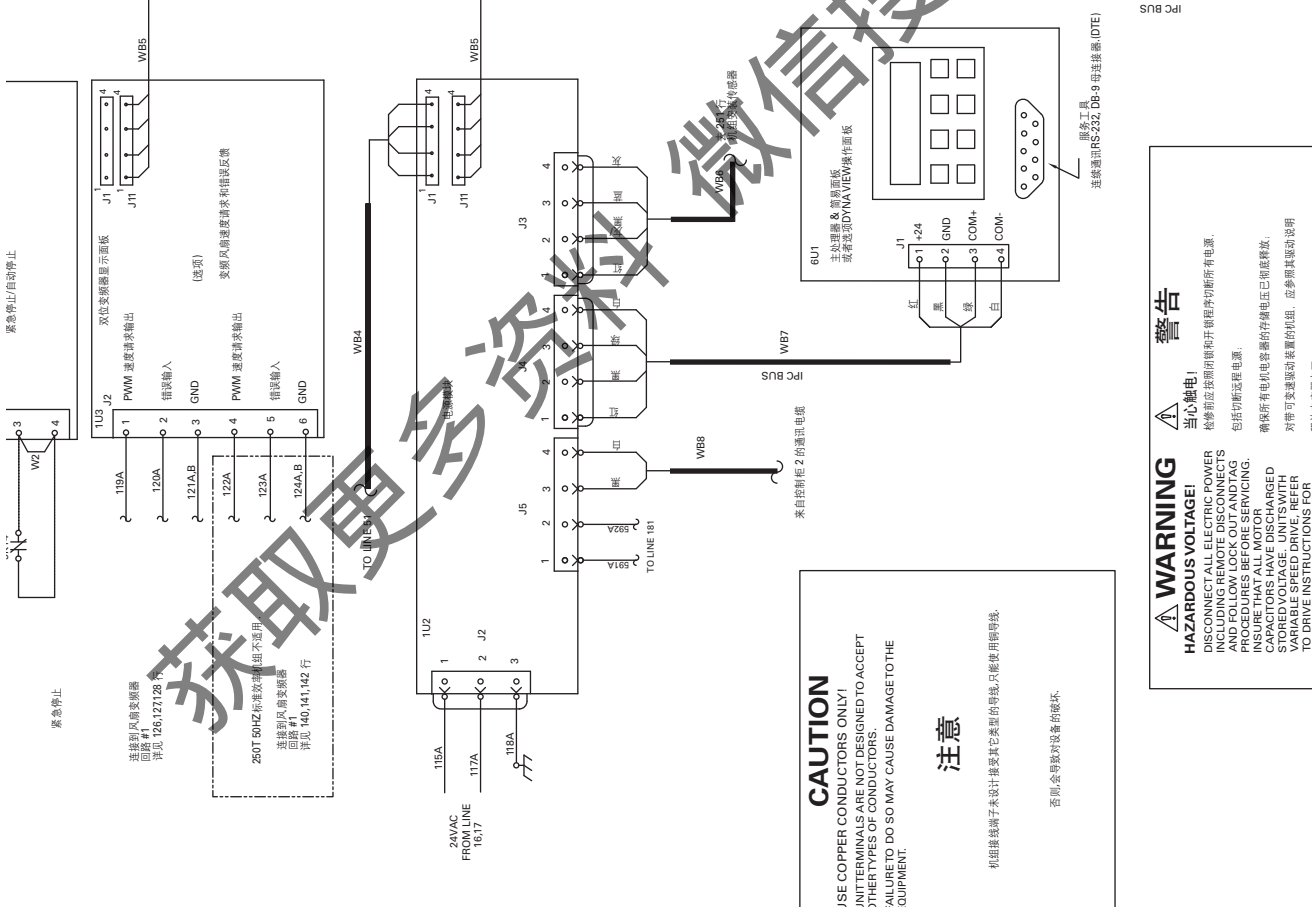
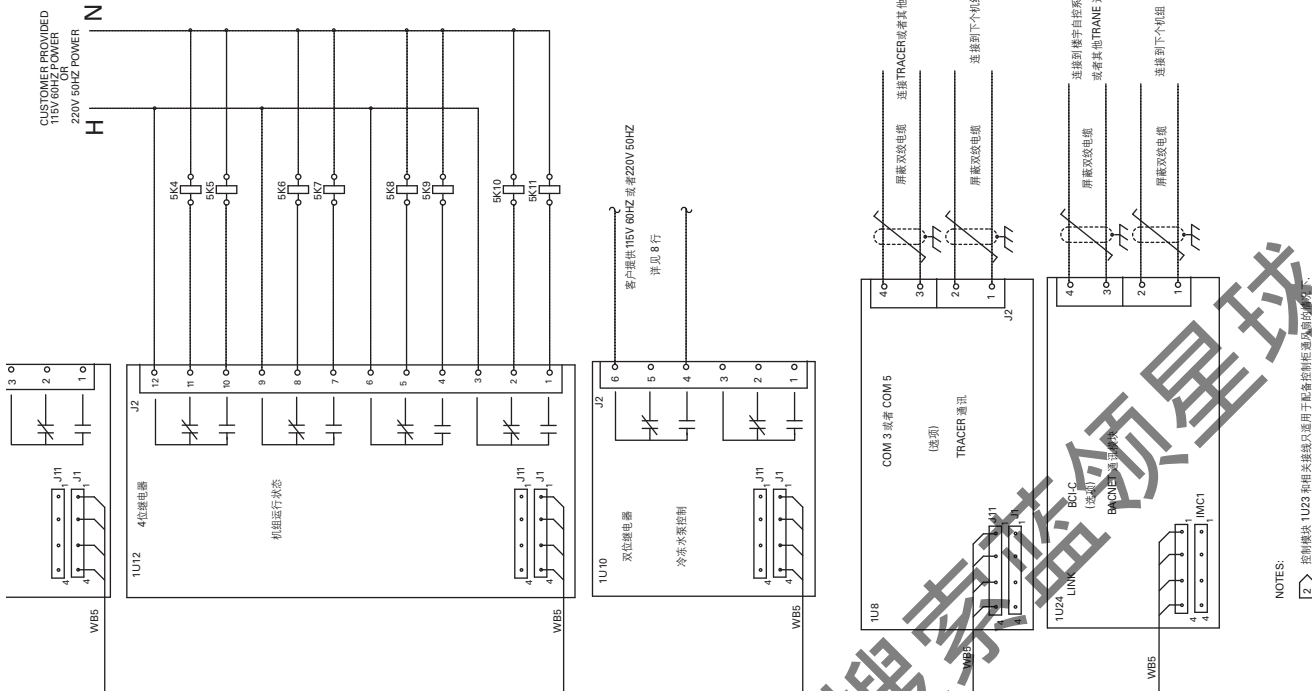
- 注: 1. 控制模块 TU23 和网关模块只适用于配备控制柜通风扇的情况下。
 2. 只有机组选择远程安装变送器的选项时, 要连接到 U2 上面的 J5-3 和 J5-4。此原理图适用于客户提供通讯从 RTAC 的处理器的控制模块。
 3. REMOVE JUMPER W8 BETWEEN 1TB6-5 AND 1TB6-3 WHEN BK1 ALUX IS INSERTED INTO THE EVAPORATOR WATER FLOW INTERLOCK CIRCUIT.
 当 BK1 插脚插入蒸发器水流互锁回路时, 拆掉 1TB6-5 和 1TB6-3 之间的跳线 W3 而且安装远程变送器。



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. TOLERANCE:
 X = ±
 .XX = ±
 .XXX = ±
 ANGLES = ±
 CONFORMS TO ASMEY14.5M - 1994

THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE PARTIES WITHOUT THE WRITTEN CONSENT OF FRANE.
 DRAWN BY: PBL
 FINISH ✓
 TRANE DATE: 2-18-10
 DO NOT SCALE PRINT
 THIRD ANGLE PROJECTION

23094880 SHEET 1 OF 1 REV G
 原理图
 RTAC, 大型风冷
 控制柜 1
 3 或者4个压缩机



CAUTION
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 FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

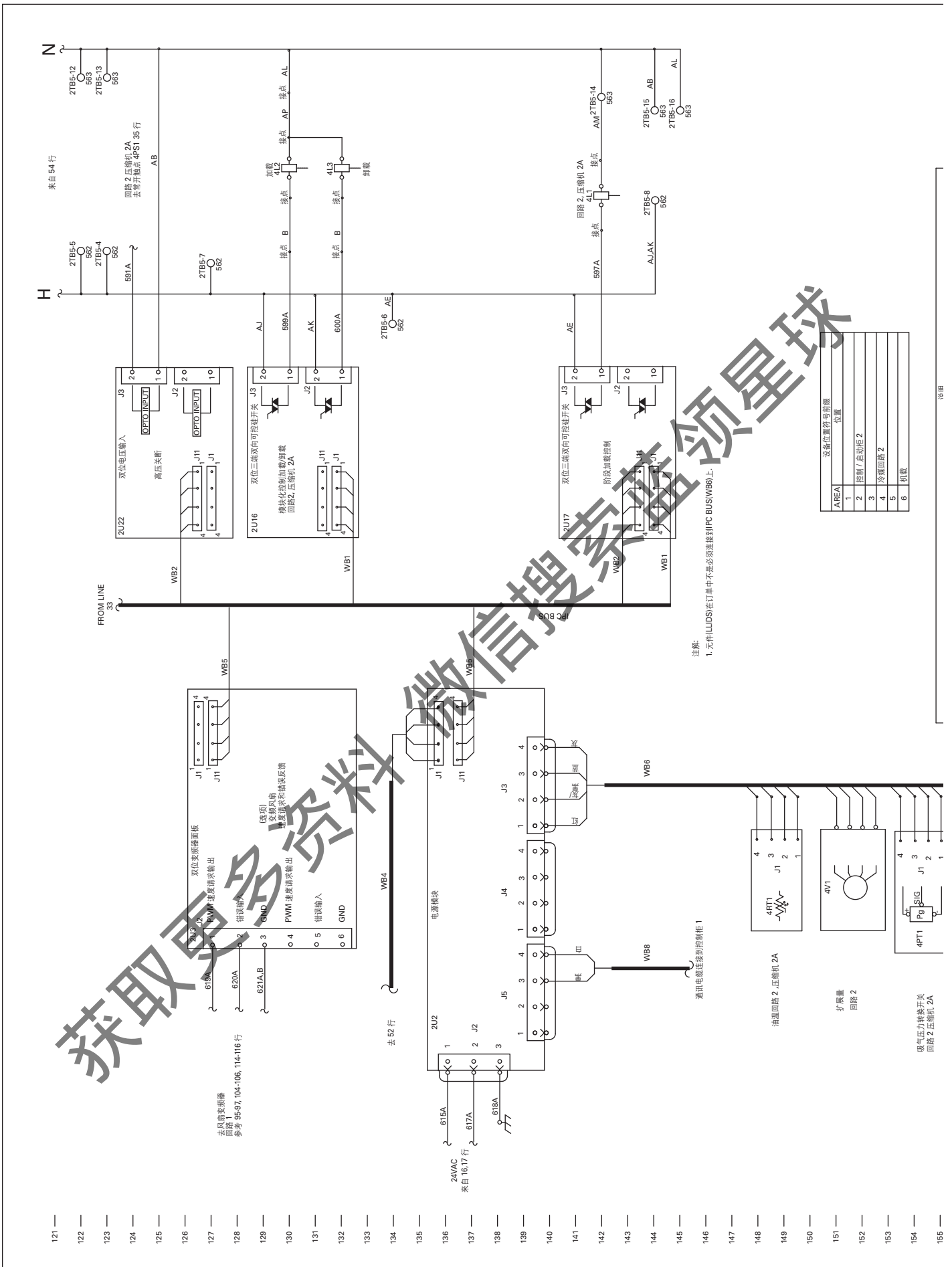
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 机组接线端子未设计接受其它类型的导线,只能使用铜导线。
 否则,会导致对设备的损坏。

警告
HAZARDOUS VOLTAGE!
 DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. CAPACITORS HAVE DISCHARGED TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

当心触电!
 检修前应断开电源并断开远程断开所有电源。电容器的电压已彻底释放。对驱动装置的驱动说明。电容器放电。在检修前进行上述操作,可能会导致严重的人身伤亡。

NOTES:
 1 控制模块 1U23 和相关模块只适用于配备控制柜通风扇的机组。
 2 当使用 BKC 模块时必须安装入集液器水流量互锁回路并拆除 TT86-5 和 TT86-3 之间的跳线 W3 而且安装远程报警线。



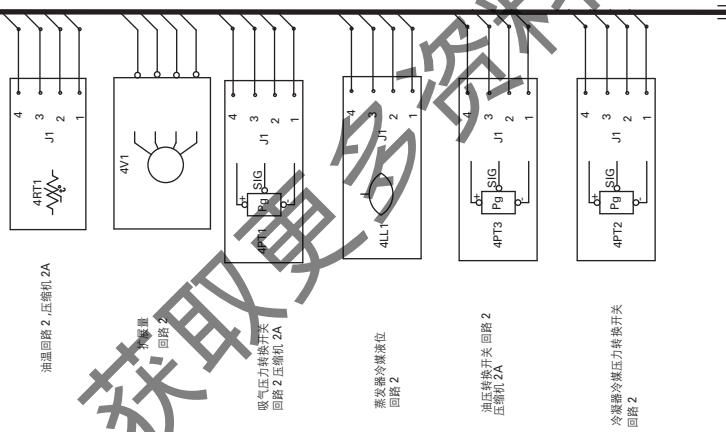


获取更多资料

微信搜索 寰宇领星球

1. 元件(LLUIDS)应在单中不是必须连接到IPC BUS(WB)上。

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AREA	设备位置号/名称	位置
1		
2	控制/启动柜 2	
3	冷媒回路 2	
4		
5		
6	机载	

设备名称	行号	说明	描述
RTAC 柜体 1 元件, 位置 1			
2CB1	7	HACR 断路器客户连接, 电气回路 2	
2F7-12	63-65, 80-82	冷媒制冷剂熔断器, 回路 2	
2F13-14	67	控制电压熔断器, 115V 回路	
2F15	18	控制电压熔断器, 115V 回路	
2F16	15	控制电压熔断器, 115V 回路	
2F17-19	100-102, 110, 112	变频器熔断器, 回路 2A	
2K1	47	VD 继电器, 压缩机 2A	
2K2	44	VD 继电器, 压缩机 2A	
2K3	50	VD 继电器, 压缩机 2A	
2K4	53	VD 继电器, 压缩机 2A	
2K13	25	冷媒制冷剂连接接触器, 回路 2	
2K14	28	冷媒制冷剂连接接触器, 回路 2	
2K15	29	冷媒制冷剂连接接触器, 回路 2	
2K16	34	冷媒制冷剂连接接触器, 回路 2	
2SW1	7	客户电源连接接触器, 电气回路 2	
2T1	14	控制电压互锁	
2T2	12	电流互锁, 压缩机 2A, A 行	
2T3	15	电流互锁, 压缩机 2A, B 行	
2T4	18	电流互锁, 压缩机 2A, C 行	
2X1R	109	客户电源连接端子盒, 电气回路 2	
2X1B	109	T.T. 控制连接端子	
2U2	135	电源模块, CH530	
2U3	126	双位置变频器面板, 风扇速度请求和错误反馈, 回路 2	
2U4	37	启动模块, 压缩机 2A	
2U16	128	四位三端双向可控硅开关, 脉冲化控制加载, 压缩机 2A	
2U17	140	四位三端双向可控硅开关, 相位流量控制, 压缩机 2A	
2U22	124	双高压二进制输入, 高压关断, 压缩机 2A	
RTAC 回路 2 冷媒元件, 位置 4			
4B1	15	压缩机 2A, 回路 2	
4B3-15	68-120	压缩机 2A, 回路 2	
4HR1	21	压缩机 2A 加热器, 回路 2	
4HR2	22	压缩机 2A 加热器, 回路 2	
4L1	142	冷媒制冷剂连接接触器, 压缩机 2A	
4L3	132	冷媒制冷剂连接接触器, 压缩机 2A	
4LL1	157	冷媒制冷剂连接接触器, 回路 2	
4PS1	35	高压互锁, 压缩机 2A, 回路 2	
4PT1	163	高压互锁, 压缩机 2A, 回路 2	
4PT2	160	高压互锁, 压缩机 2A, 回路 2	
4PT3	148	高压互锁, 压缩机 2A, 回路 2	
4RT1	90, 100, 110	冷媒制冷剂连接接触器, 回路 2	
4C3	151	冷媒制冷剂连接接触器, 回路 2	
4V1	151	电气送排风空管, 回路 2	

警告

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检修前应切断电源, 包括远程切断电源。
确保所有电机电容器的电压已彻底释放。
变频器驱动装置的检修, 应参照其驱动说明。
释放电容器电压。
未执行上述规定操作, 将可能导致严重的人身伤亡, 甚至死亡。

CAUTION

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注： 2

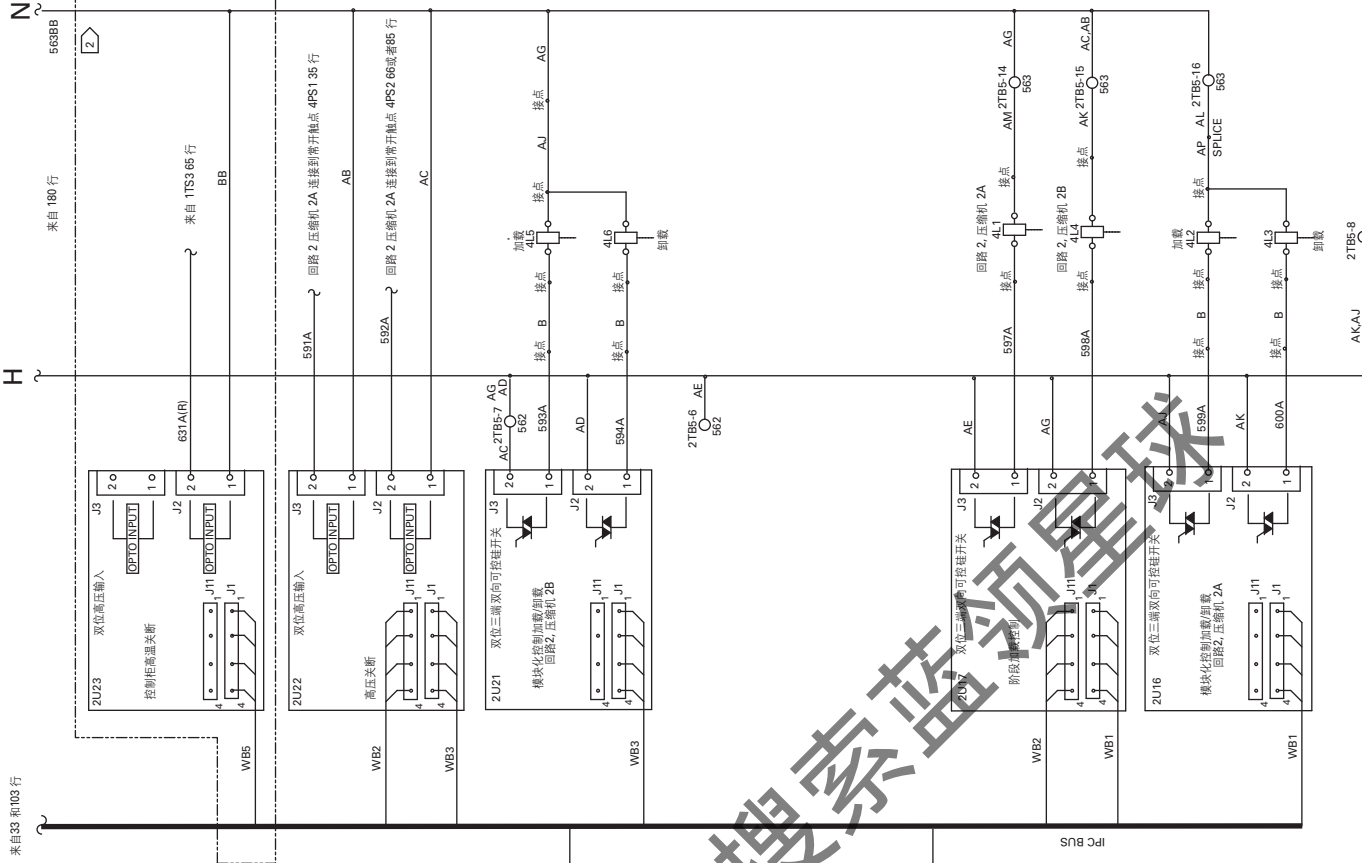
控制模块 2U23 和相关接线只适用于安装了变频器的系列。

来自 33 和 103 行

来自 180 行

563BB

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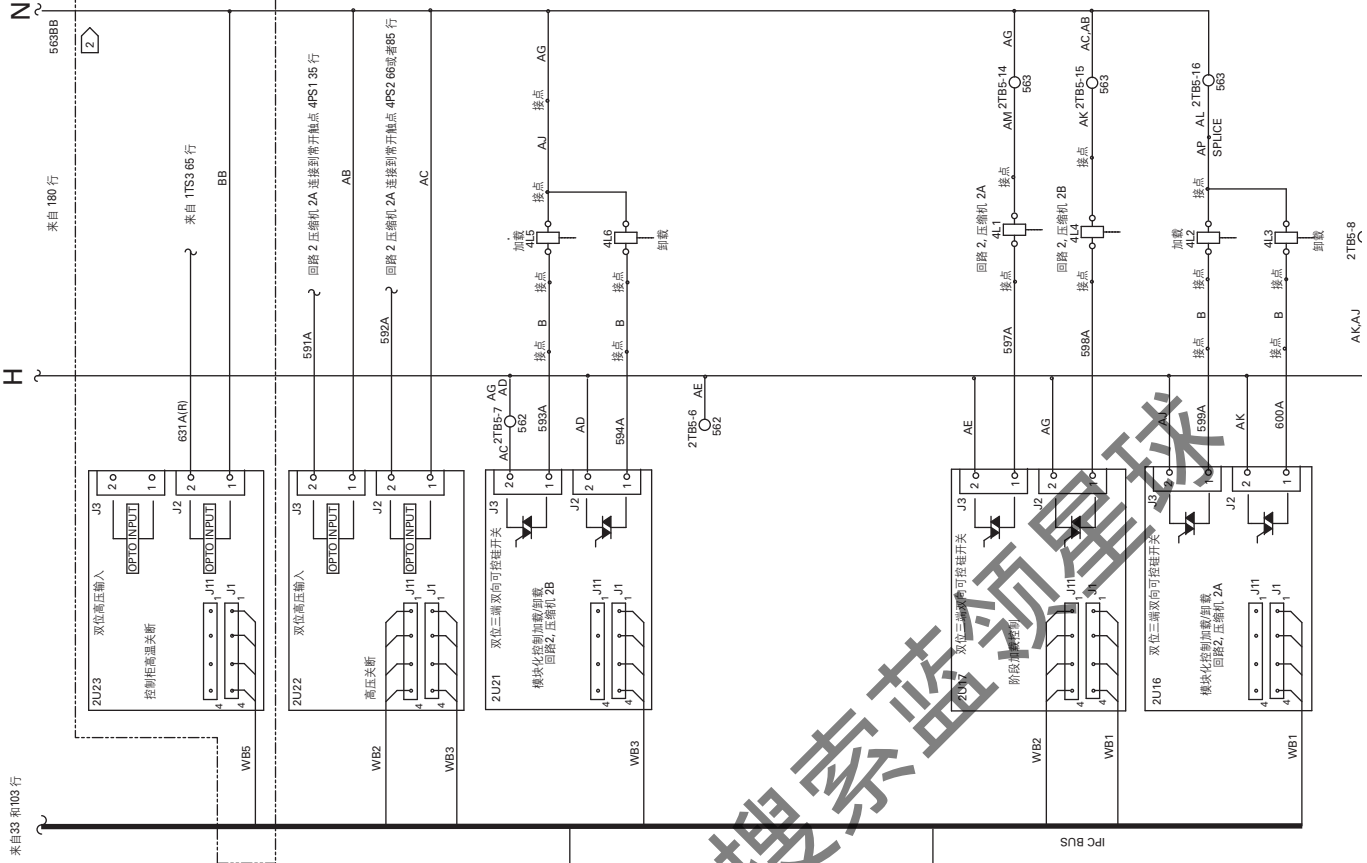


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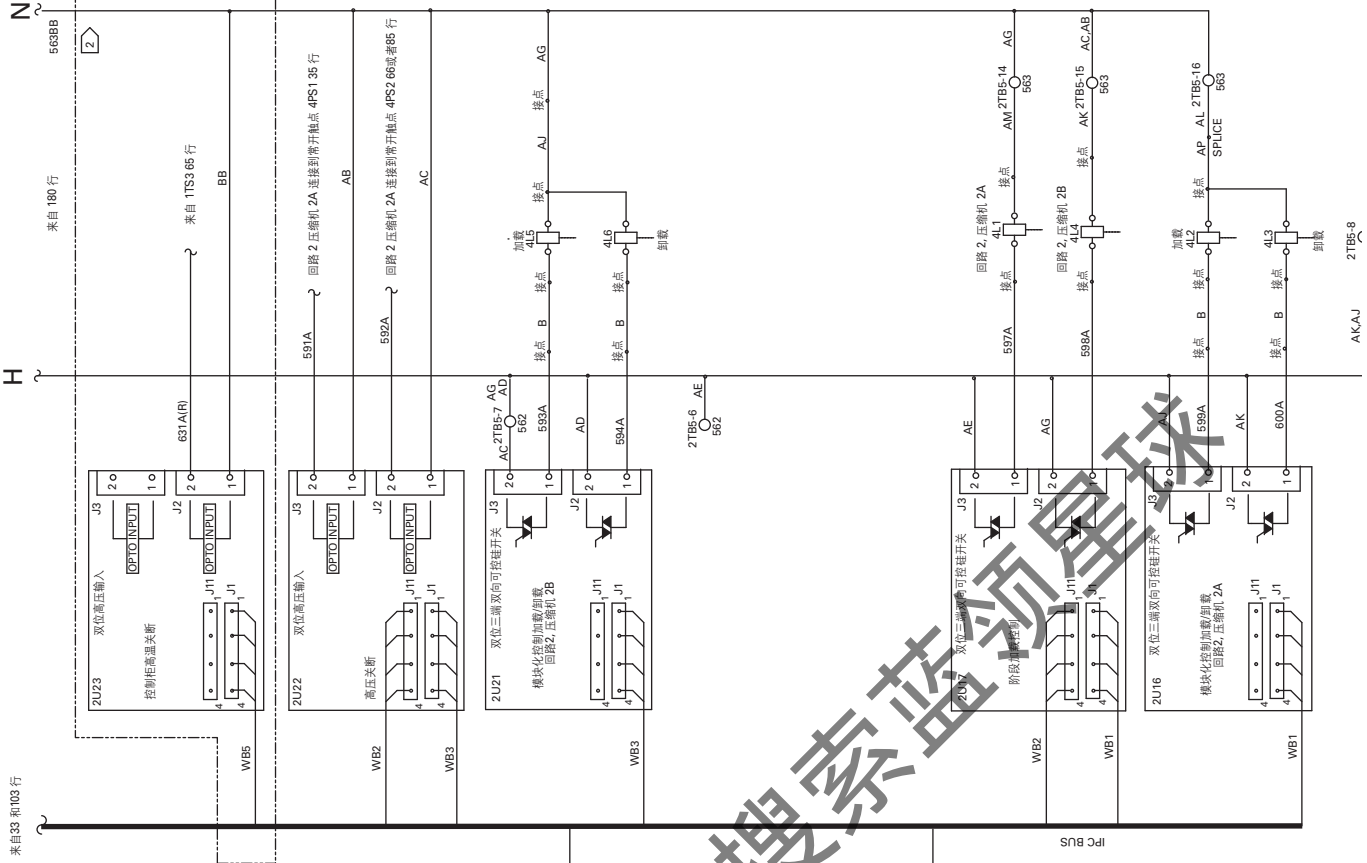


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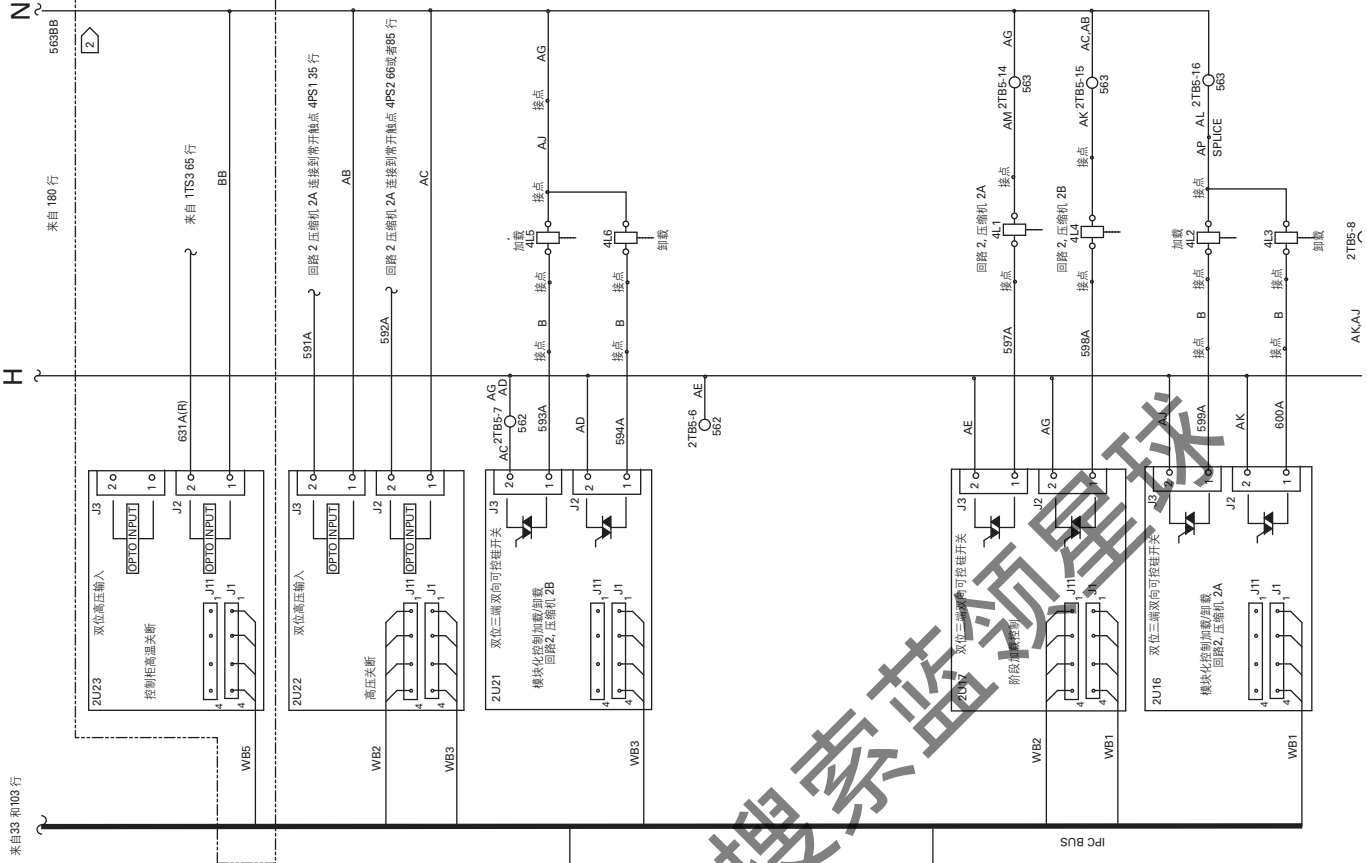


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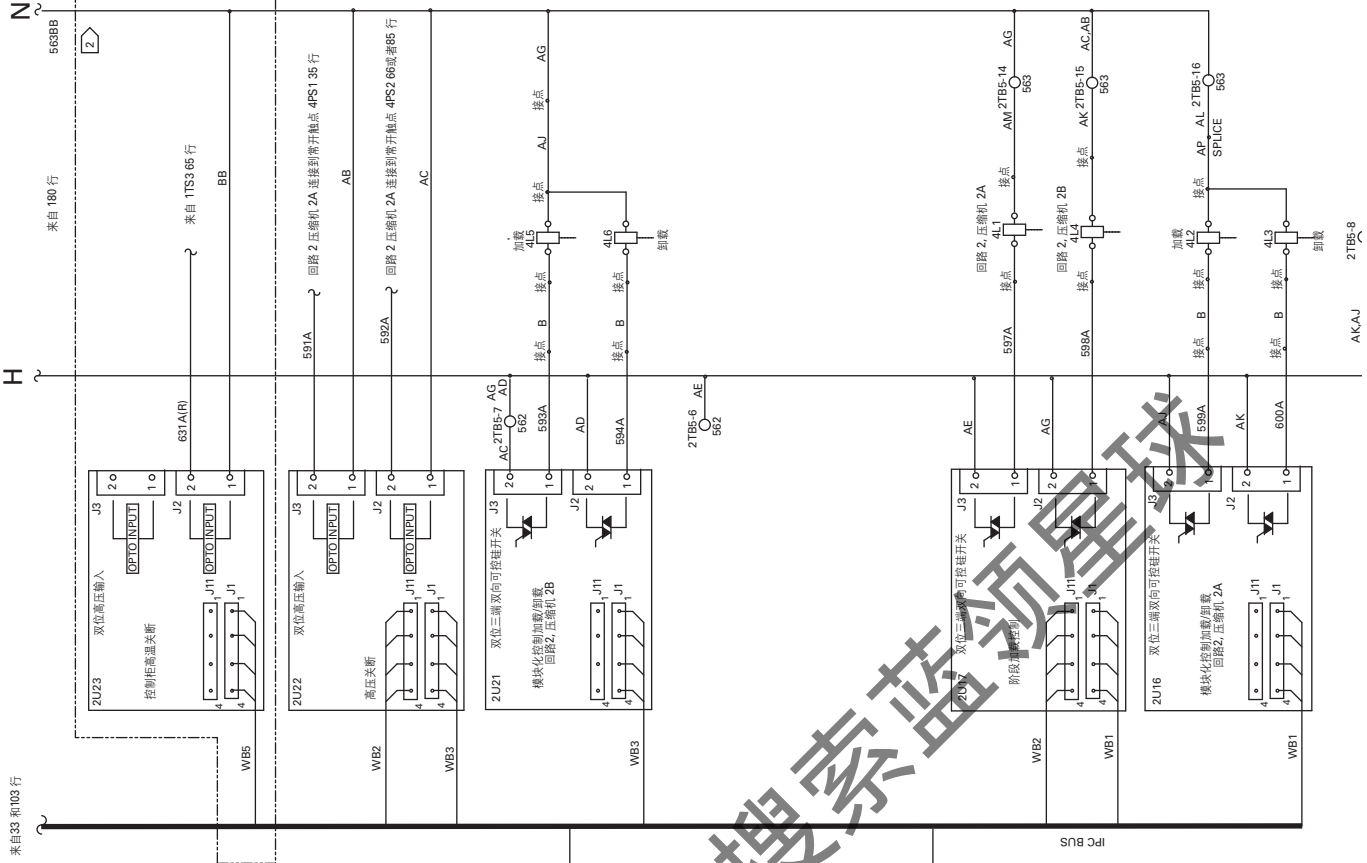


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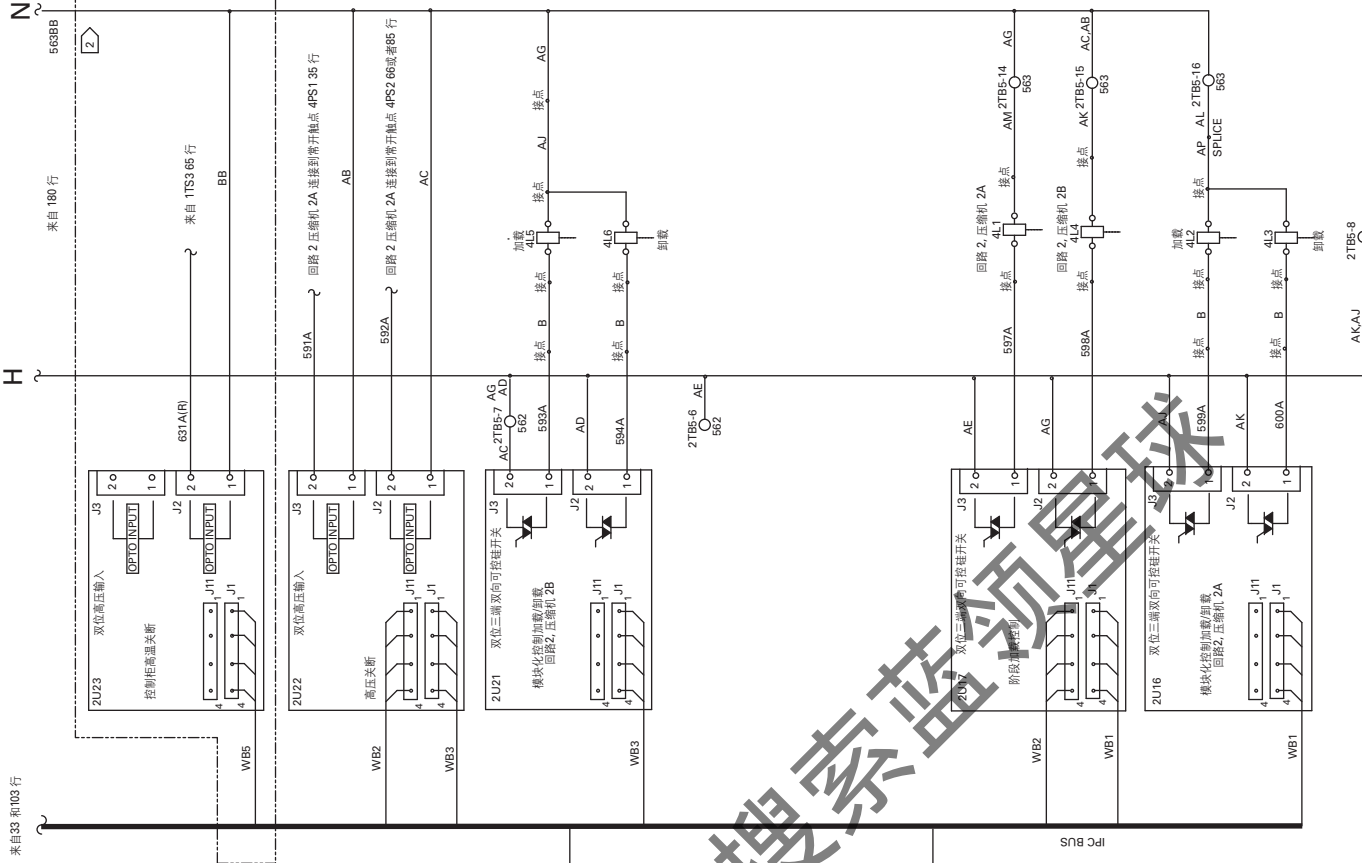


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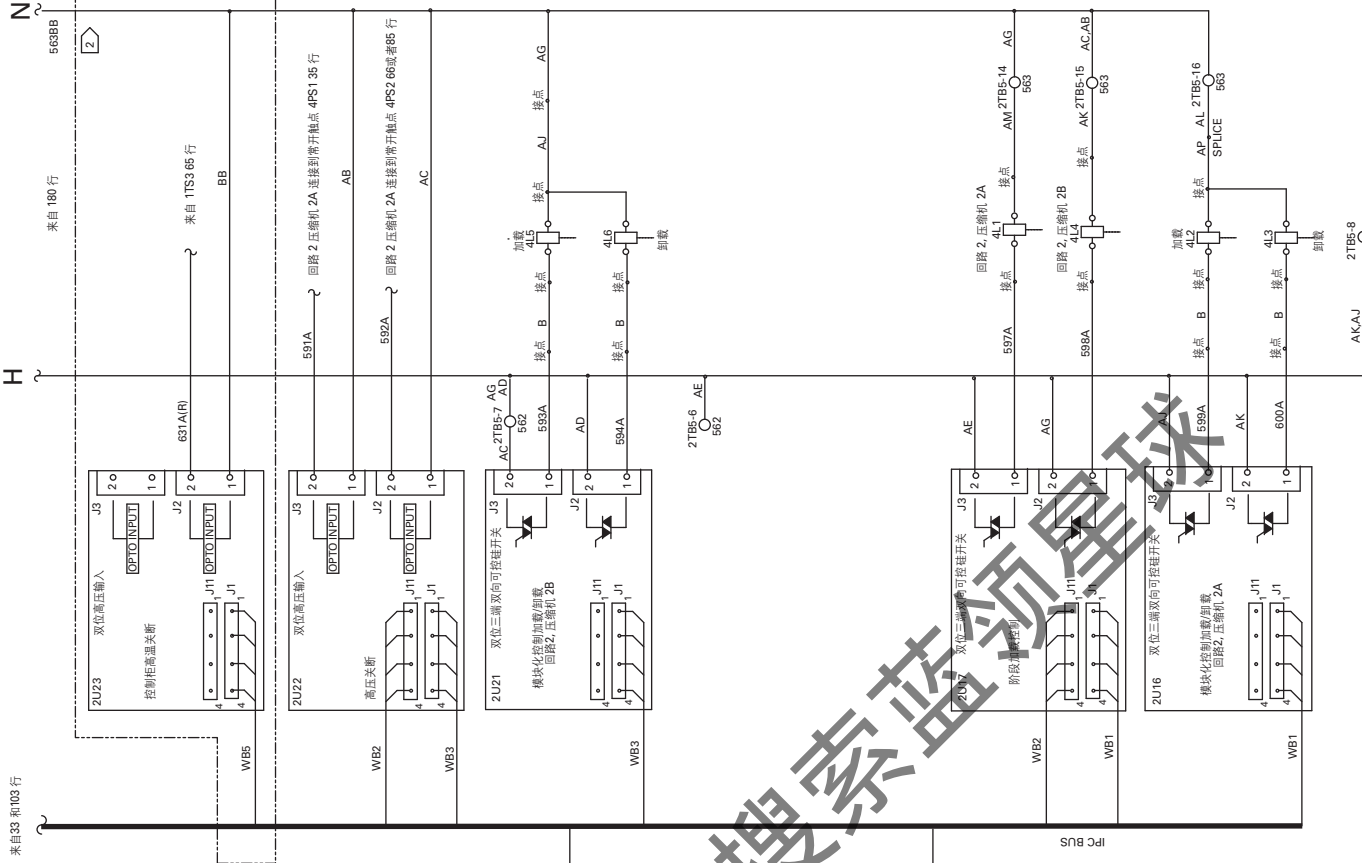


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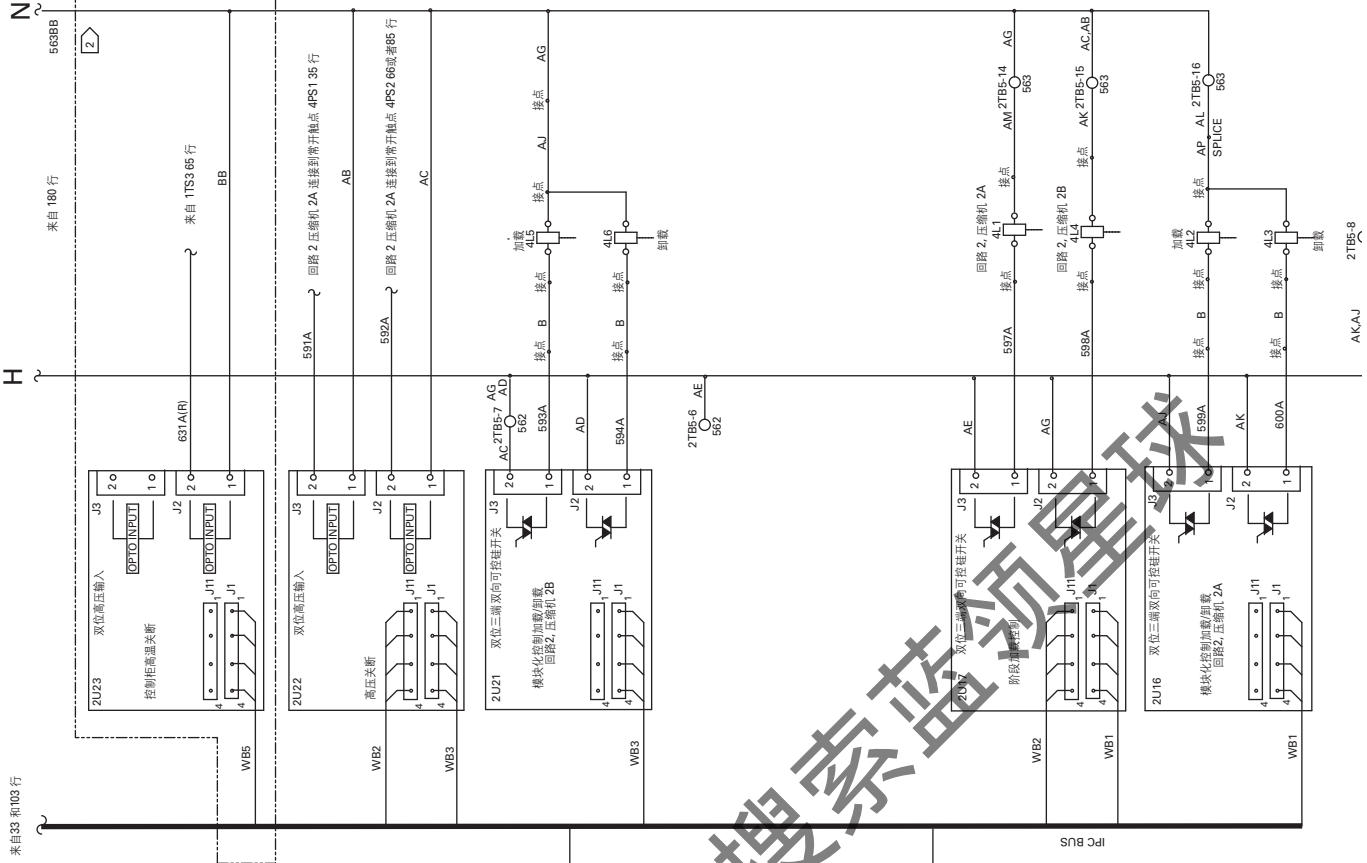


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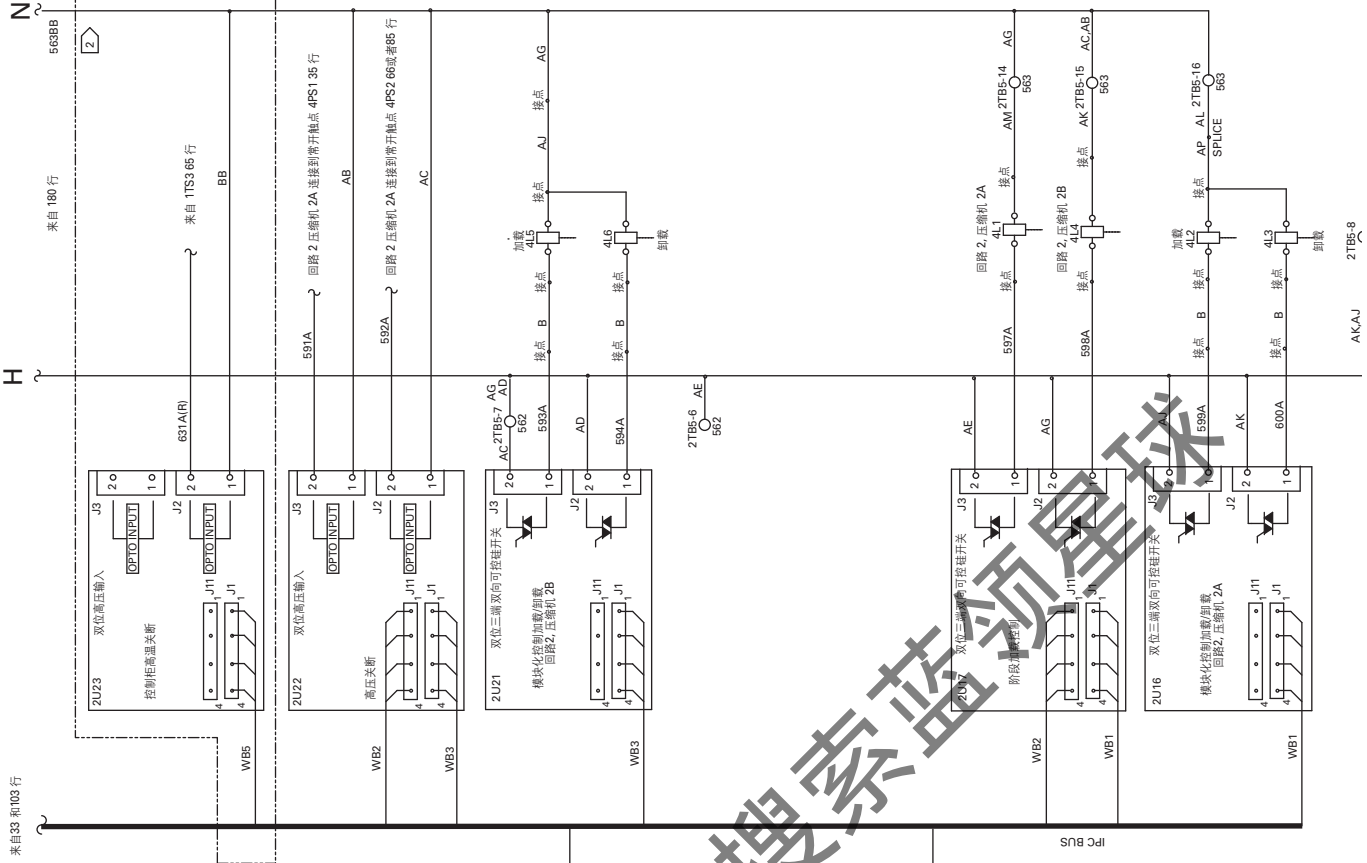


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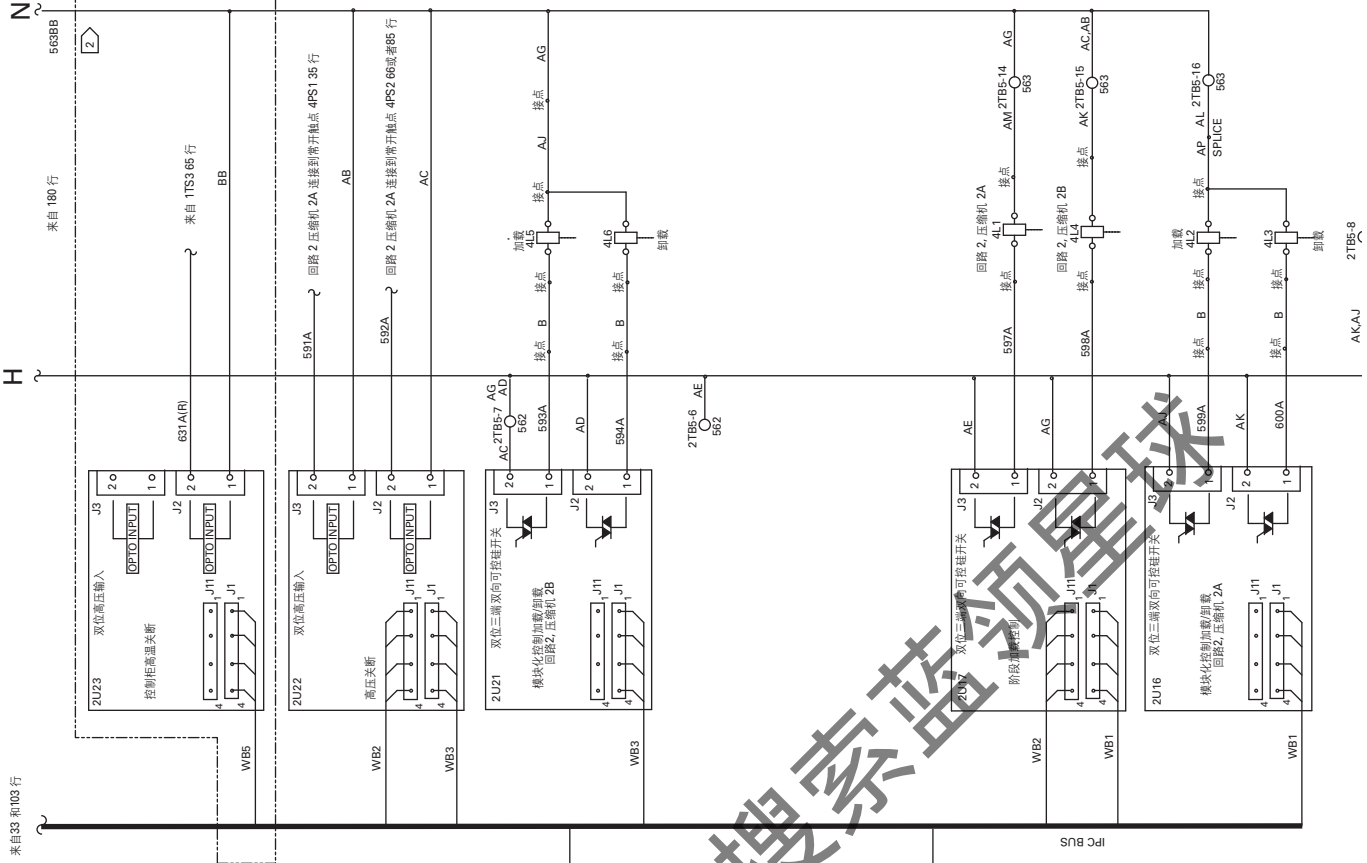


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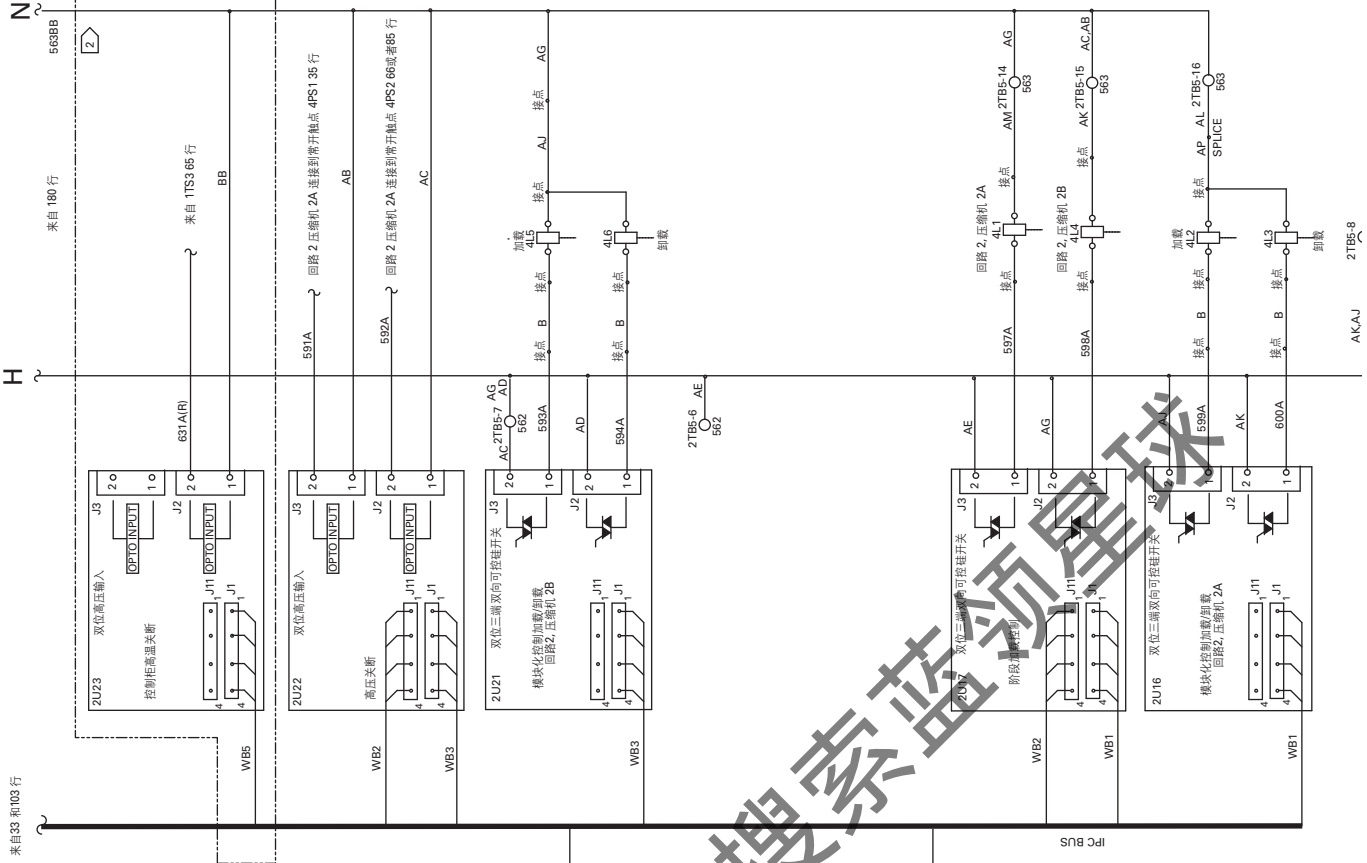


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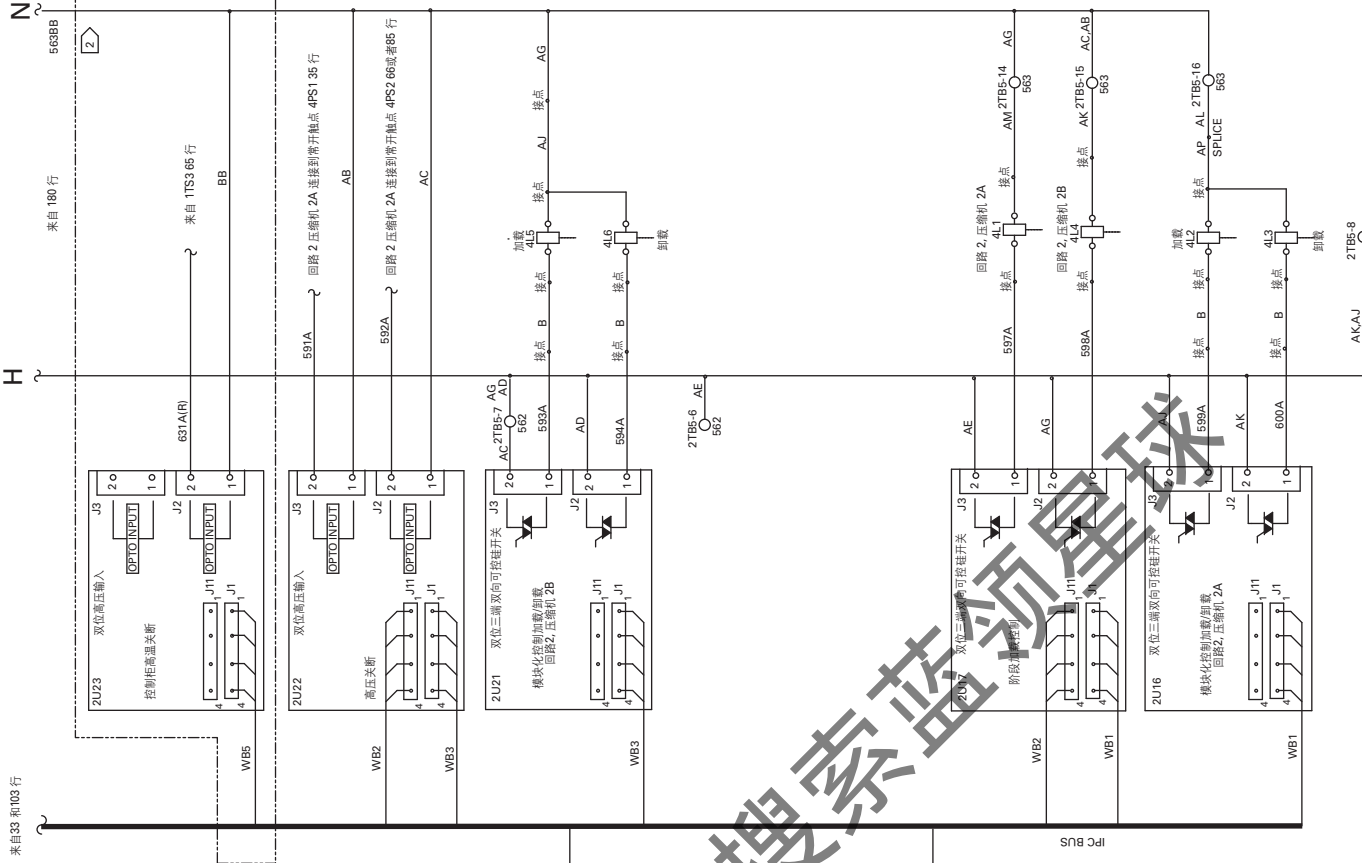


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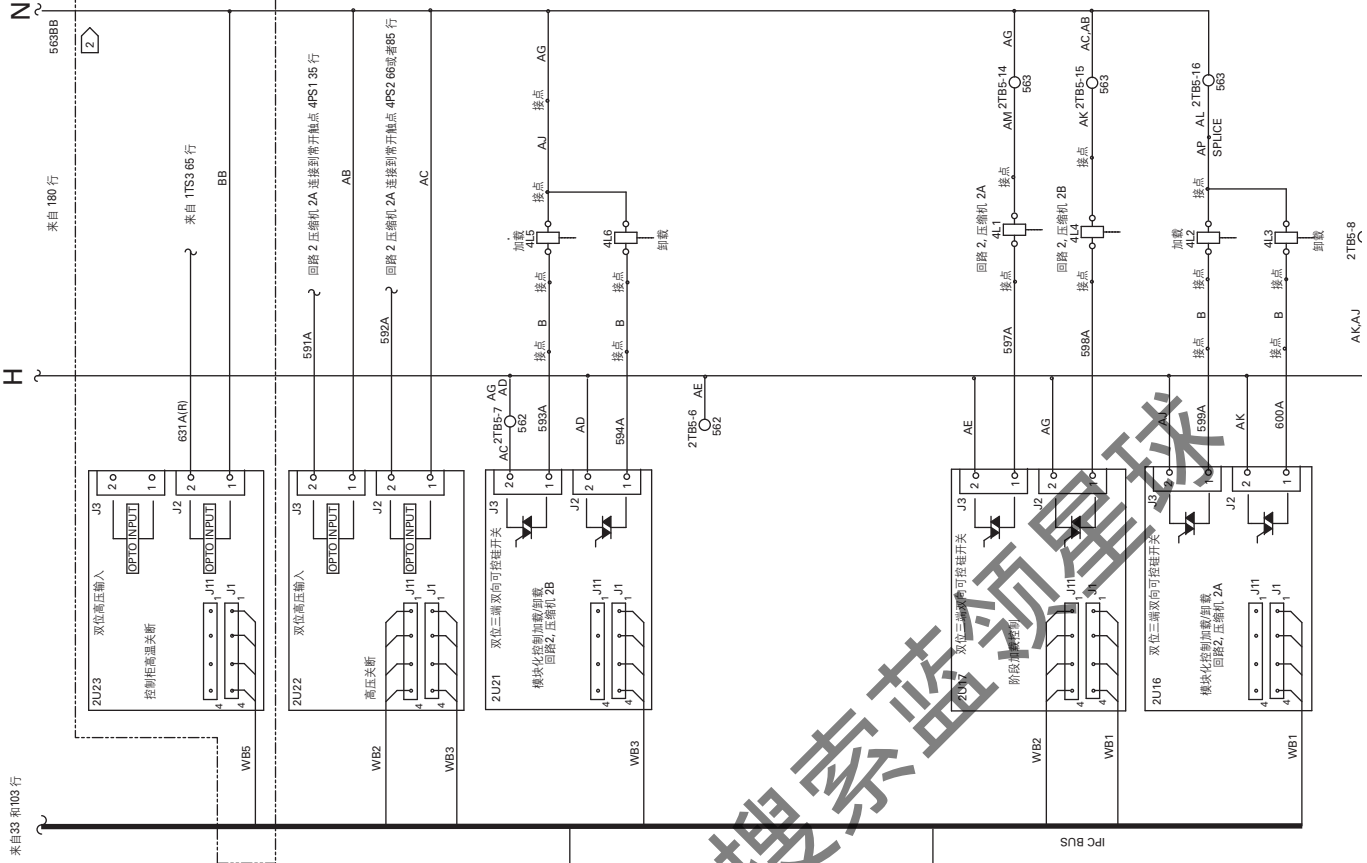


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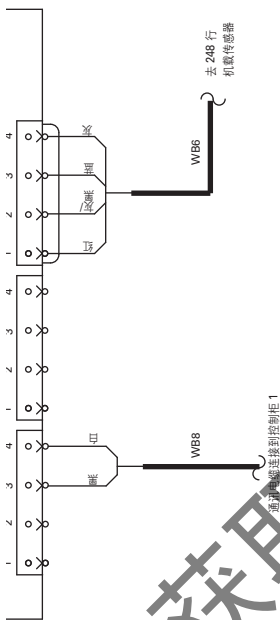
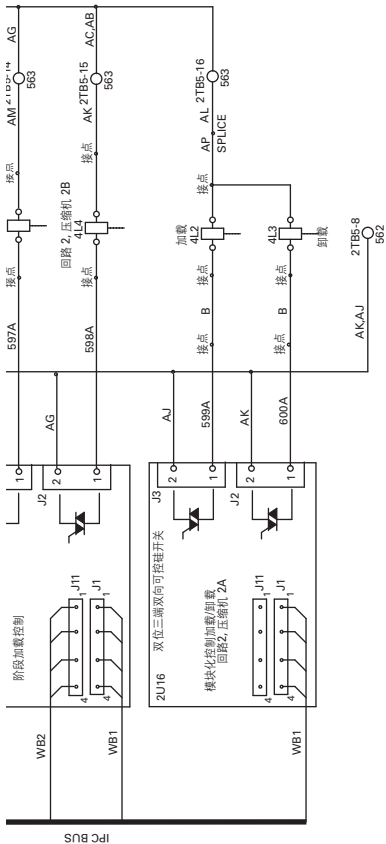
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REPLACES	AUTOCAD	2309-4883	REV C
2309-2206	THE TRANE COMPANY		
REVISION DATE	A DIVISION OF AMERICAN STANDARD INC.	原理图	
9-27-01	THIS DRAWING IS PROPRIETARY AND SHALL NOT BE COPIED, REPRODUCED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF THE TRANE COMPANY.	RTAC	
DRAWN BY	SIMILARTO	大型风冷机组	
PBL		柜体 2	
DATE		4 压缩机	
7-26-00			

警告
当心触电!

检修前应断开所有电源, 包括切断远端电源。
确保所有电机电容器放电电压已彻底释放。
电容器放电电压应参照其驱动说明释放电容器电压。
未接上述规定操作, 可能导致严重的人身伤亡。

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND LOCKOUTS BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED TO SAFE VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE REFER TO CAPACITOR DISCHARGE FAILURE TO DO THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY.

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE UNIT.

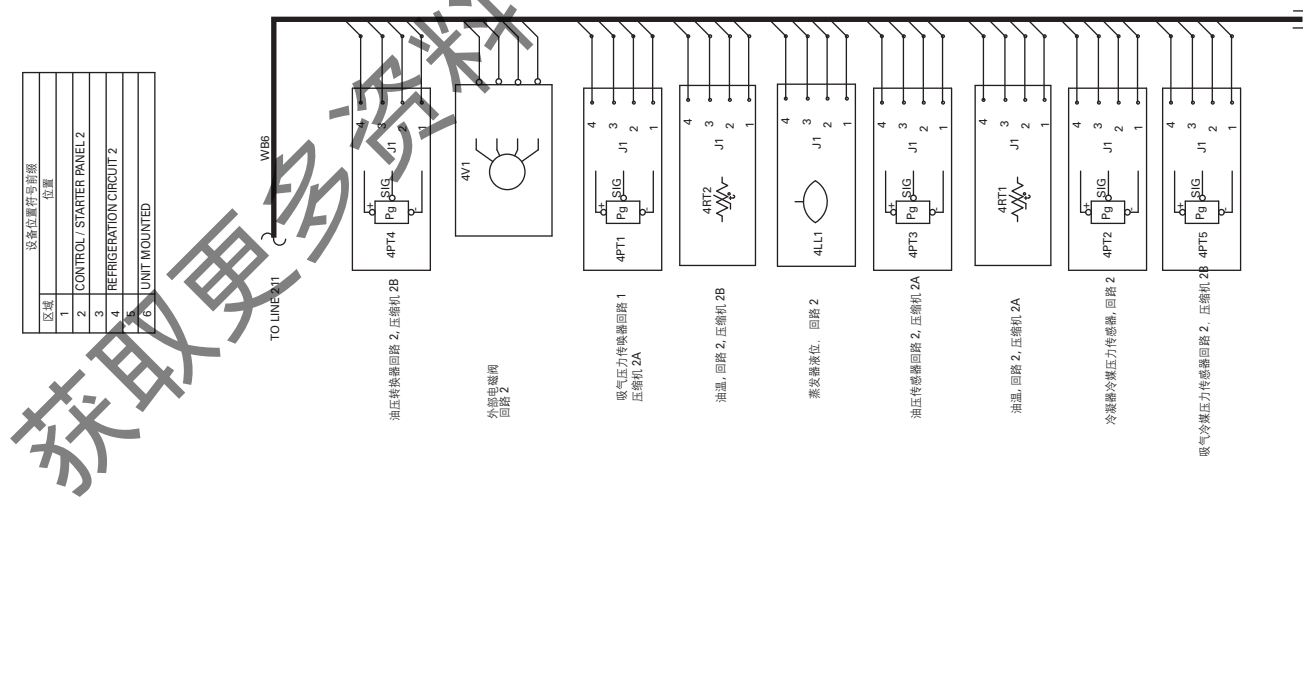
注意
机组接线端子未设计接受其它类型的导线, 只能使用铜导线。
否则会导致对设备的损坏。



REFPLACES 2309-2233	AUTOCAD THE TRANE COMPANY A DIVISION OF AMERICAN STANDARD INC.	2309-1353	REV B
REVISION DATE		原理图	
DRAWN BY PBL		RTAC 2 压缩机 中型/大型风冷机组 说明/LLID BUS 电缆	
DATE 12-04-01	SIMILARTO		

352-31010 3HR1 3HR2 3L1 3L2 3L3 3L4 3L5 3L6 3L7 3L8 3L9 3L10 3L11 3L12 3L13 3L14 3L15 3L16 3L17 3L18 3L19 3L20 3L21 3L22 3L23 3L24 3L25 3L26 3L27 3L28 3L29 3L30 3L31 3L32 3L33 3L34 3L35 3L36 3L37 3L38 3L39 3L40 3L41 3L42 3L43 3L44 3L45 3L46 3L47 3L48 3L49 3L50 3L51 3L52 3L53 3L54 3L55 3L56 3L57 3L58 3L59 3L60 3L61 3L62 3L63 3L64 3L65 3L66 3L67 3L68 3L69 3L70 3L71 3L72 3L73 3L74 3L75 3L76 3L77 3L78 3L79 3L80 3L81 3L82 3L83 3L84 3L85 3L86 3L87 3L88 3L89 3L90 3L91 3L92 3L93 3L94 3L95 3L96 3L97 3L98 3L99 3L100 3L101 3L102 3L103 3L104 3L105 3L106 3L107 3L108 3L109 3L110 3L111 3L112 3L113 3L114 3L115 3L116 3L117 3L118 3L119 3L120 3L121 3L122 3L123 3L124 3L125 3L126 3L127 3L128 3L129 3L130 3L131 3L132 3L133 3L134 3L135 3L136 3L137 3L138 3L139 3L140 3L141 3L142 3L143 3L144 3L145 3L146 3L147 3L148 3L149 3L150 3L151 3L152 3L153 3L154 3L155 3L156 3L157 3L158 3L159 3L160 3L161 3L162 3L163 3L164 3L165 3L166 3L167 3L168 3L169 3L170 3L171 3L172 3L173 3L174 3L175 3L176 3L177 3L178 3L179 3L180 3L181 3L182 3L183 3L184 3L185 3L186 3L187 3L188 3L189 3L190 3L191 3L192 3L193 3L194 3L195 3L196 3L197 3L198 3L199 3L200 3L201 3L202 3L203 3L204 3L205 3L206 3L207 3L208 3L209 3L210 3L211 3L212 3L213 3L214 3L215 3L216 3L217 3L218 3L219 3L220 3L221 3L222 3L223 3L224 3L225 3L226 3L227 3L228 3L229 3L230 3L231 3L232 3L233 3L234 3L235 3L236 3L237 3L238 3L239 3L240 3L241 3L242 3L243 3L244 3L245 3L246 3L247 3L248 3L249 3L250 3L251 3L252 3L253 3L254 3L255 3L256 3L257 3L258 3L259 3L260 3L261 3L262 3L263 3L264 3L265 3L266 3L267 3L268 3L269 3L270 3L271 3L272 3L273 3L274 3L275 3L276 3L277 3L278 3L279 3L280 3L281 3L282 3L283 3L284 3L285 3L286 3L287 3L288 3L289 3L290 3L291 3L292 3L293 3L294 3L295 3L296 3L297 3L298 3L299 3L300	163,179,186,193,195,207,212,217,222,227,232,237,242,247,252,257,262,267,272,277,282,287,292,297,302,307,312,317,322,327,332,337,342,347,352,357,362,367,372,377,382,387,392,397,402,407,412,417,422,427,432,437,442,447,452,457,462,467,472,477,482,487,492,497,502,507,512,517,522,527,532,537,542,547,552,557,562,567,572,577,582,587,592,597,602,607,612,617,622,627,632,637,642,647,652,657,662,667,672,677,682,687,692,697,702,707,712,717,722,727,732,737,742,747,752,757,762,767,772,777,782,787,792,797,802,807,812,817,822,827,832,837,842,847,852,857,862,867,872,877,882,887,892,897,902,907,912,917,922,927,932,937,942,947,952,957,962,967,972,977,982,987,992,997,1002,1007,1012,1017,1022,1027,1032,1037,1042,1047,1052,1057,1062,1067,1072,1077,1082,1087,1092,1097,1102,1107,1112,1117,1122,1127,1132,1137,1142,1147,1152,1157,1162,1167,1172,1177,1182,1187,1192,1197,1202,1207,1212,1217,1222,1227,1232,1237,1242,1247,1252,1257,1262,1267,1272,1277,1282,1287,1292,1297,1302,1307,1312,1317,1322,1327,1332,1337,1342,1347,1352,1357,1362,1367,1372,1377,1382,1387,1392,1397,1402,1407,1412,1417,1422,1427,1432,1437,1442,1447,1452,1457,1462,1467,1472,1477,1482,1487,1492,1497,1502,1507,1512,1517,1522,1527,1532,1537,1542,1547,1552,1557,1562,1567,1572,1577,1582,1587,1592,1597,1602,1607,1612,1617,1622,1627,1632,1637,1642,1647,1652,1657,1662,1667,1672,1677,1682,1687,1692,1697,1702,1707,1712,1717,1722,1727,1732,1737,1742,1747,1752,1757,1762,1767,1772,1777,1782,1787,1792,1797,1802,1807,1812,1817,1822,1827,1832,1837,1842,1847,1852,1857,1862,1867,1872,1877,1882,1887,1892,1897,1902,1907,1912,1917,1922,1927,1932,1937,1942,1947,1952,1957,1962,1967,1972,1977,1982,1987,1992,1997,2002,2007,2012,2017,2022,2027,2032,2037,2042,2047,2052,2057,2062,2067,2072,2077,2082,2087,2092,2097,2102,2107,2112,2117,2122,2127,2132,2137,2142,2147,2152,2157,2162,2167,2172,2177,2182,2187,2192,2197,2202,2207,2212,2217,2222,2227,2232,2237,2242,2247,2252,2257,2262,2267,2272,2277,2282,2287,2292,2297,2302,2307,2312,2317,2322,2327,2332,2337,2342,2347,2352,2357,2362,2367,2372,2377,2382,2387,2392,2397,2402,2407,2412,2417,2422,2427,2432,2437,2442,2447,2452,2457,2462,2467,2472,2477,2482,2487,2492,2497,2502,2507,2512,2517,2522,2527,2532,2537,2542,2547,2552,2557,2562,2567,2572,2577,2582,2587,2592,2597,2602,2607,2612,2617,2622,2627,2632,2637,2642,2647,2652,2657,2662,2667,2672,2677,2682,2687,2692,2697,2702,2707,2712,2717,2722,2727,2732,2737,2742,2747,2752,2757,2762,2767,2772,2777,2782,2787,2792,2797,2802,2807,2812,2817,2822,2827,2832,2837,2842,2847,2852,2857,2862,2867,2872,2877,2882,2887,2892,2897,2902,2907,2912,2917,2922,2927,2932,2937,2942,2947,2952,2957,2962,2967,2972,2977,2982,2987,2992,2997,3002,3007,3012,3017,3022,3027,3032,3037,3042,3047,3052,3057,3062,3067,3072,3077,3082,3087,3092,3097,3102,3107,3112,3117,3122,3127,3132,3137,3142,3147,3152,3157,3162,3167,3172,3177,3182,3187,3192,3197,3202,3207,3212,3217,3222,3227,3232,3237,3242,3247,3252,3257,3262,3267,3272,3277,3282,3287,3292,3297,3302,3307,3312,3317,3322,3327,3332,3337,3342,3347,3352,3357,3362,3367,3372,3377,3382,3387,3392,3397,3402,3407,3412,3417,3422,3427,3432,3437,3442,3447,3452,3457,3462,3467,3472,3477,3482,3487,3492,3497,3502,3507,3512,3517,3522,3527,3532,3537,3542,3547,3552,3557,3562,3567,3572,3577,3582,3587,3592,3597,3602,3607,3612,3617,3622,3627,3632,3637,3642,3647,3652,3657,3662,3667,3672,3677,3682,3687,3692,3697,3702,3707,3712,3717,3722,3727,3732,3737,3742,3747,3752,3757,3762,3767,3772,3777,3782,3787,3792,3797,3802,3807,3812,3817,3822,3827,3832,3837,3842,3847,3852,3857,3862,3867,3872,3877,3882,3887,3892,3897,3902,3907,3912,3917,3922,3927,3932,3937,3942,3947,3952,3957,3962,3967,3972,3977,3982,3987,3992,3997,4002,4007,4012,4017,4022,4027,4032,4037,4042,4047,4052,4057,4062,4067,4072,4077,4082,4087,4092,4097,4102,4107,4112,4117,4122,4127,4132,4137,4142,4147,4152,4157,4162,4167,4172,4177,4182,4187,4192,4197,4202,4207,4212,4217,4222,4227,4232,4237,4242,4247,4252,4257,4262,4267,4272,4277,4282,4287,4292,4297,4302,4307,4312,4317,4322,4327,4332,4337,4342,4347,4352,4357,4362,4367,4372,4377,4382,4387,4392,4397,4402,4407,4412,4417,4422,4427,4432,4437,4442,4447,4452,4457,4462,4467,4472,4477,4482,4487,4492,4497,4502,4507,4512,4517,4522,4527,4532,4537,4542,4547,4552,4557,4562,4567,4572,4577,4582,4587,4592,4597,4602,4607,4612,4617,4622,4627,4632,4637,4642,4647,4652,4657,4662,4667,4672,4677,4682,4687,4692,4697,4702,4707,4712,4717,4722,4727,4732,4737,4742,4747,4752,4757,4762,4767,4772,4777,4782,4787,4792,4797,4802,4807,4812,4817,4822,4827,4832,4837,4842,4847,4852,4857,4862,4867,4872,4877,4882,4887,4892,4897,4902,4907,4912,4917,4922,4927,4932,4937,4942,4947,4952,4957,4962,4967,4972,4977,4982,4987,4992,4997,5002,5007,5012,5017,5022,5027,5032,5037,5042,5047,5052,5057,5062,5067,5072,5077,5082,5087,5092,5097,5102,5107,5112,5117,5122,5127,5132,5137,5142,5147,5152,5157,5162,5167,5172,5177,5182,5187,5192,5197,5202,5207,5212,5217,5222,5227,5232,5237,5242,5247,5252,5257,5262,5267,5272,5277,5282,5287,5292,5297,5302,5307,5312,5317,5322,5327,5332,533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设备名称	行号	说明 描述
2B1	21	RTAC 柜体 2 元件, 区域 2
2CB1	7	柜体通风扇
2F7-9	122-124	HACR 断路器 客户接线, 电气回路 2
2F10-12	126	冷媒循环风阀接触器, 回路 2
2F13-14	126	冷媒循环风阀接触器, 回路 2
2F15	126	冷媒循环风阀接触器, 回路 2
2F16	16	控制电互锁驱动接触器, 回路 2
2F17-19	122-124	控制电互锁驱动接触器, 回路 2
2F20-22	136-138	控制电互锁驱动接触器, 回路 2
2F23-25	148-150	控制电互锁驱动接触器, 回路 2
2F26-28	175-177	控制电互锁驱动接触器, 回路 2
2K1	44	启动接触器, 压缩机 2A
2K2	46	启动接触器, 压缩机 2A
2K3	46	启动接触器, 压缩机 2A
2K4	52	启动接触器, 压缩机 2A
2K5	93	启动接触器, 压缩机 2B
2K6	96	启动接触器, 压缩机 2B
2K7	99	启动接触器, 压缩机 2B
2K8	102	启动接触器, 压缩机 2B
2K9	102	启动接触器, 压缩机 2B
2K10	102	启动接触器, 压缩机 2B
2K11	102	启动接触器, 压缩机 2B
2K12	102	启动接触器, 压缩机 2B
2K13	102	启动接触器, 压缩机 2B
2K14	27	启动接触器, 压缩机 2B
2K15	30	启动接触器, 压缩机 2B
2K16	32	启动接触器, 压缩机 2B
2K17	32	启动接触器, 压缩机 2B
2K18	33	启动接触器, 压缩机 2B
2K19	33	启动接触器, 压缩机 2B
2T1	14	控制电互锁驱动接触器, 回路 2
2T2	12	控制电互锁驱动接触器, 回路 2
2T3	15	控制电互锁驱动接触器, 回路 2
2T4	18	控制电互锁驱动接触器, 回路 2
2T5	18	控制电互锁驱动接触器, 回路 2
2T6	72	控制电互锁驱动接触器, 回路 2
2T7	78	控制电互锁驱动接触器, 回路 2
2T8	78	控制电互锁驱动接触器, 回路 2
2T9	78	控制电互锁驱动接触器, 回路 2
2T10	121	控制电互锁驱动接触器, 回路 2
2T11	121	控制电互锁驱动接触器, 回路 2
2T12	134	控制电互锁驱动接触器, 回路 2
2S1	66	最高温度限制开关 1 (控制柜 2)
2S2	21	最高温度限制开关 2 (控制柜 2)
2S3	66	最高温度限制开关 3 (控制柜 2)
2S4	66	最高温度限制开关 4 (控制柜 2)
2S5	203	最高温度限制开关 5 (控制柜 2)
2S6	203	最高温度限制开关 6 (控制柜 2)
2S7	203	最高温度限制开关 7 (控制柜 2)
2S8	36	最高温度限制开关 8 (控制柜 2)
2S9	36	最高温度限制开关 9 (控制柜 2)
2S10	36	最高温度限制开关 10 (控制柜 2)
2U1	22	风阀控制, 回路 2
2U2	22	风阀控制, 回路 2
2U3	22	风阀控制, 回路 2
2U4	22	风阀控制, 回路 2
2U5	22	风阀控制, 回路 2
2U6	22	风阀控制, 回路 2
2U7	22	风阀控制, 回路 2
2U8	22	风阀控制, 回路 2
2U9	22	风阀控制, 回路 2
2U10	22	风阀控制, 回路 2
2U11	22	风阀控制, 回路 2
2U12	22	风阀控制, 回路 2
2U13	22	风阀控制, 回路 2
2U14	22	风阀控制, 回路 2
2U15	22	风阀控制, 回路 2
2U16	22	风阀控制, 回路 2
2U17	22	风阀控制, 回路 2
2U18	22	风阀控制, 回路 2
2U19	22	风阀控制, 回路 2
2U20	22	风阀控制, 回路 2
2U21	22	风阀控制, 回路 2
2U22	22	风阀控制, 回路 2
2U23	22	风阀控制, 回路 2
2U24	22	风阀控制, 回路 2
2U25	22	风阀控制, 回路 2
2U26	22	风阀控制, 回路 2
2U27	22	风阀控制, 回路 2
2U28	22	风阀控制, 回路 2
2U29	22	风阀控制, 回路 2
2U30	22	风阀控制, 回路 2
2U31	22	风阀控制, 回路 2
2U32	22	风阀控制, 回路 2
2U33	22	风阀控制, 回路 2
2U34	22	风阀控制, 回路 2
2U35	22	风阀控制, 回路 2
2U36	22	风阀控制, 回路 2
2U37	22	风阀控制, 回路 2
2U38	22	风阀控制, 回路 2
2U39	22	风阀控制, 回路 2
2U40	22	风阀控制, 回路 2
2U41	22	风阀控制, 回路 2
2U42	22	风阀控制, 回路 2
2U43	22	风阀控制, 回路 2
2U44	22	风阀控制, 回路 2
2U45	22	风阀控制, 回路 2
2U46	22	风阀控制, 回路 2
2U47	22	风阀控制, 回路 2
2U48	22	风阀控制, 回路 2
2U49	22	风阀控制, 回路 2
2U50	22	风阀控制, 回路 2
2U51	22	风阀控制, 回路 2
2U52	22	风阀控制, 回路 2
2U53	22	风阀控制, 回路 2
2U54	22	风阀控制, 回路 2
2U55	22	风阀控制, 回路 2
2U56	22	风阀控制, 回路 2
2U57	22	风阀控制, 回路 2
2U58	22	风阀控制, 回路 2
2U59	22	风阀控制, 回路 2
2U60	22	风阀控制, 回路 2
2U61	22	风阀控制, 回路 2
2U62	22	风阀控制, 回路 2
2U63	22	风阀控制, 回路 2
2U64	22	风阀控制, 回路 2
2U65	22	风阀控制, 回路 2
2U66	22	风阀控制, 回路 2
2U67	22	风阀控制, 回路 2
2U68	22	风阀控制, 回路 2
2U69	22	风阀控制, 回路 2
2U70	22	风阀控制, 回路 2
2U71	22	风阀控制, 回路 2
2U72	22	风阀控制, 回路 2
2U73	22	风阀控制, 回路 2
2U74	22	风阀控制, 回路 2
2U75	22	风阀控制, 回路 2

注:
1. 元件(LLIDS)在订单中不是必须连接到IPC BUS(WB6)上。

