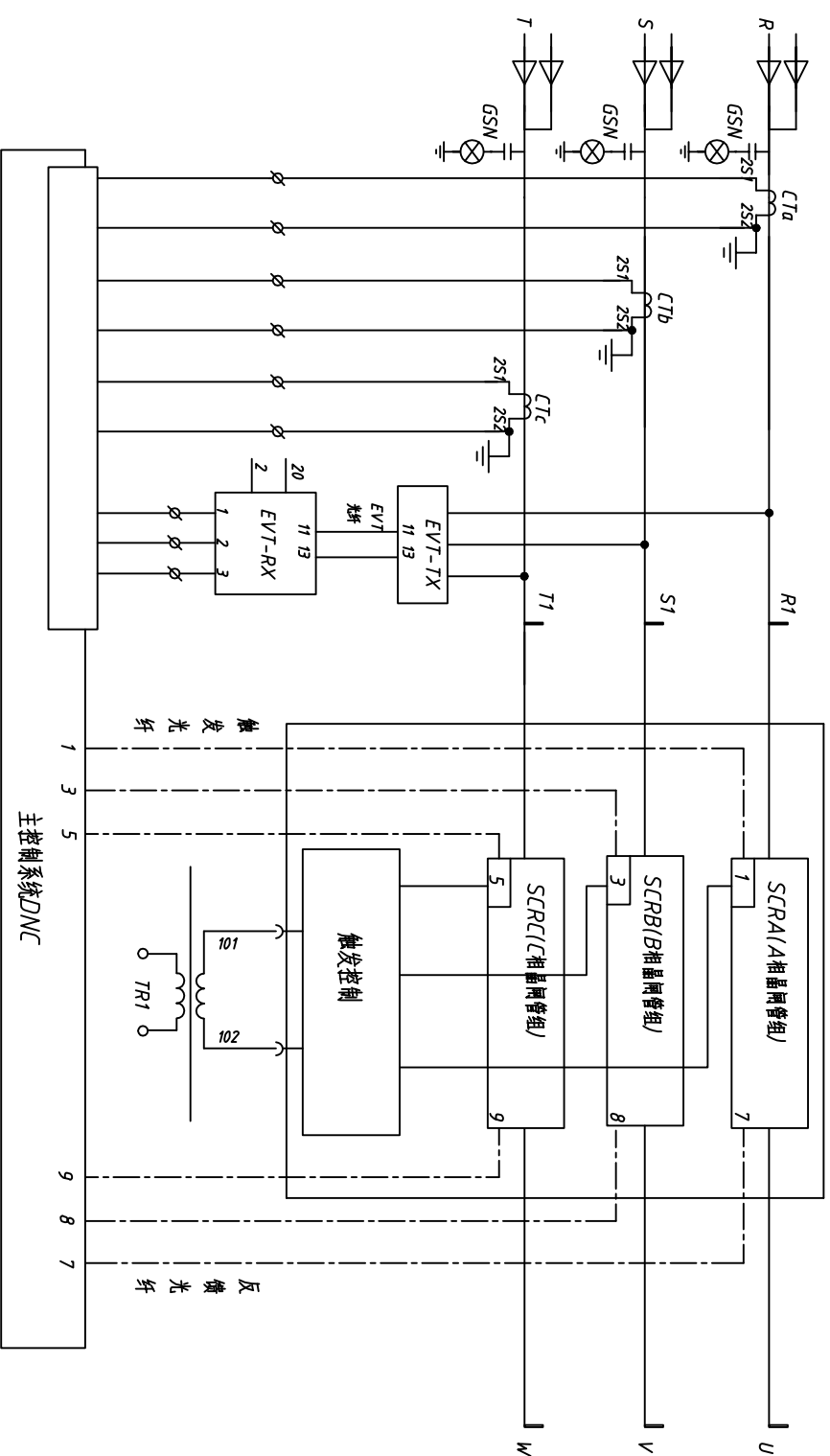
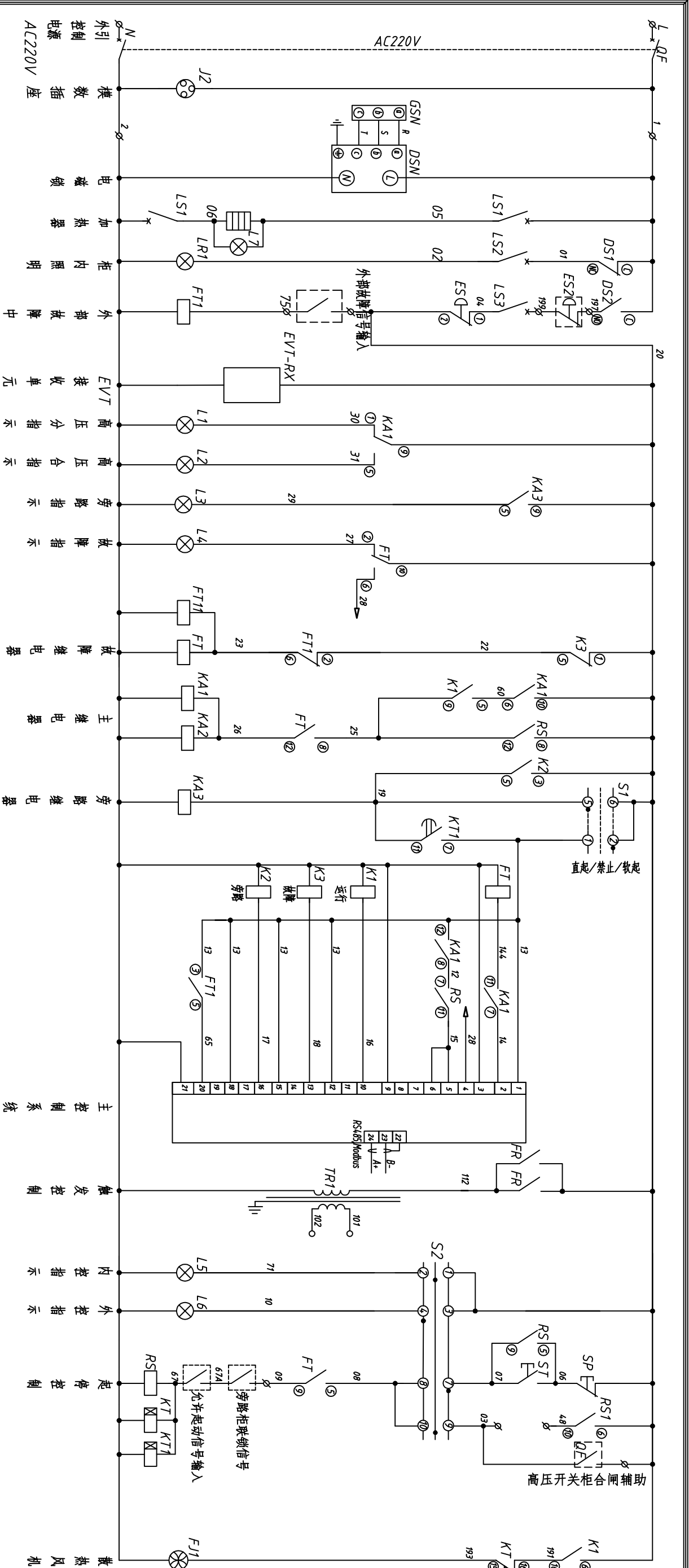




[illegible]



主 控 制 系 统  
触 发 控 制

|    |                     |                                |                                  |   |    |
|----|---------------------|--------------------------------|----------------------------------|---|----|
| 18 | KT1                 | 时间继电器time relay                | H3Y-4-60S 通电延时 AC220V 带线圈        | 1 |    |
| 17 | FJ1                 | 风机fans                         | 250FZY2-D AC220V 反叶型             | 1 |    |
| 16 | KT                  | 时间继电器time relay                | NJB1-S/20min(分) AC220V 导轨安装      | 1 | 正泰 |
| 15 | J2                  | 模数插座Socket                     | AC30-3多功能插座                      | 1 |    |
| 14 | K1,FT11,FT,RS,KA1~3 | 中间继电器relay                     | LY4NJ AC220V                     | 7 |    |
| 13 | QF                  | 小型断路器Miniature circuit breaker | C65N-2P C10A                     | 1 |    |
| 12 | ST,SP               | 启动、停止按钮button                  | ZB2 BA3C BE101C /ZB2 BA4C BE102C | 1 |    |
| 11 | DSN(GSN)            | 电磁锁带电锁器Electromagnetic lock    | DSN-DMZ AC220V(CG5-10Q/95×140)   | 1 |    |
| 10 | L1~7                | 指示灯Indicator                   | XB2-BVM×LC AC220V                | 7 |    |
| 9  | LR1                 | 柜内照明灯lamp                      | T5 AC220V                        | 1 |    |
| 8  | ES1                 | 急停按钮emergency stop             | ZB2 BS54C BE102C                 | 1 |    |
| 7  | S2                  | 转换开关switch                     | LW26-25/5 (内控/外控/通讯)             | 1 |    |
| 6  | S1                  | 转换开关switch                     | LW26-25/3 (软起/禁止/直起)             | 1 |    |
| 5  | TR1                 | 控制变压器Control transformer       | BK-400VA 220V/3×40V              | 1 |    |
| 4  | H                   | 加热器heater                      | JRD 150W AC220V                  | 1 |    |
| 3  | LS1~3               | 小型断路器Miniature circuit breaker | C65N-2P C6A C65N-1P C10A         | 3 |    |
| 2  | DS1~2               | 限位开关limited switch             | D4MC-5020                        | 2 |    |
| 1  | K2~3,FT1,FR         | 中间继电器relay                     | LY2NJ AC220V                     | 4 |    |

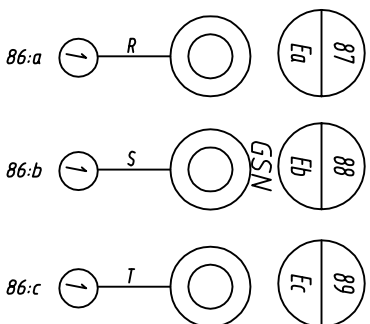
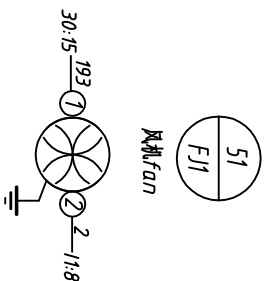
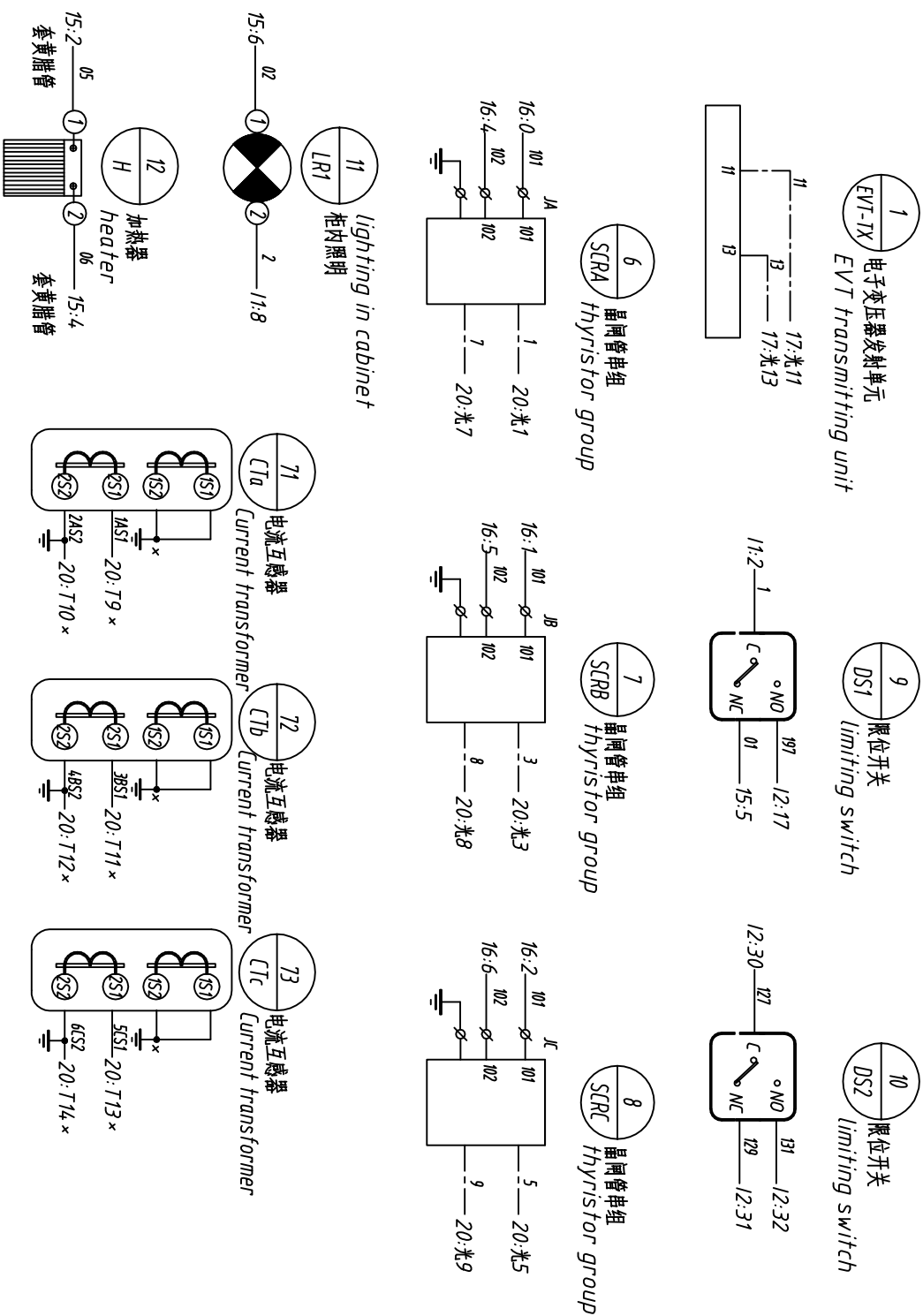
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| S1节点图S1 Node chart |  |  |  |  |    |  |  |  |  | S2节点图S2 Node chart |  |  |  |  |    |  |  |  |  |
|                    |  |  |  |  | 软起 |  |  |  |  | 禁止                 |  |  |  |  | 直起 |  |  |  |  |
| 1-2                |  |  |  |  | ×  |  |  |  |  |                    |  |  |  |  | ×  |  |  |  |  |
| 3-4                |  |  |  |  |    |  |  |  |  | ×                  |  |  |  |  |    |  |  |  |  |
| 5-6                |  |  |  |  |    |  |  |  |  |                    |  |  |  |  | ×  |  |  |  |  |
| 7-8                |  |  |  |  | ×  |  |  |  |  |                    |  |  |  |  |    |  |  |  |  |
| 9-10               |  |  |  |  |    |  |  |  |  | ×                  |  |  |  |  |    |  |  |  |  |
| 11-12              |  |  |  |  |    |  |  |  |  |                    |  |  |  |  | ×  |  |  |  |  |

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|--------------------|--|--|--|--|----|--|--|--|--|----|--|--|--|--|----|--|--|--|--|
| S2节点图S2 Node chart |  |  |  |  |    |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
|                    |  |  |  |  | 内控 |  |  |  |  | 外控 |  |  |  |  | 通讯 |  |  |  |  |
| 1-2                |  |  |  |  | ×  |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| 3-4                |  |  |  |  |    |  |  |  |  | ×  |  |  |  |  |    |  |  |  |  |
| 5-6                |  |  |  |  |    |  |  |  |  |    |  |  |  |  | ×  |  |  |  |  |
| 7-8                |  |  |  |  | ×  |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| 9-10               |  |  |  |  |    |  |  |  |  | ×  |  |  |  |  |    |  |  |  |  |
| 11-12              |  |  |  |  |    |  |  |  |  |    |  |  |  |  | ×  |  |  |  |  |
| 13-14              |  |  |  |  | ×  |  |  |  |  |    |  |  |  |  |    |  |  |  |  |
| 15-16              |  |  |  |  |    |  |  |  |  | ×  |  |  |  |  |    |  |  |  |  |
| 17-18              |  |  |  |  |    |  |  |  |  |    |  |  |  |  | ×  |  |  |  |  |

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| HPMV-DN-10-500+Modbus |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |
| 中高压交流电动机固态软起动装置电气原理图  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |
| 2402015086 ~ 88       |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |
| 图样标记                  |  |  |  |  |  |  |  |  |  | 重量 |  |  |  |  |  |  |  |  |  | 比例 |  |  |  |  |  |  |  |  |  |
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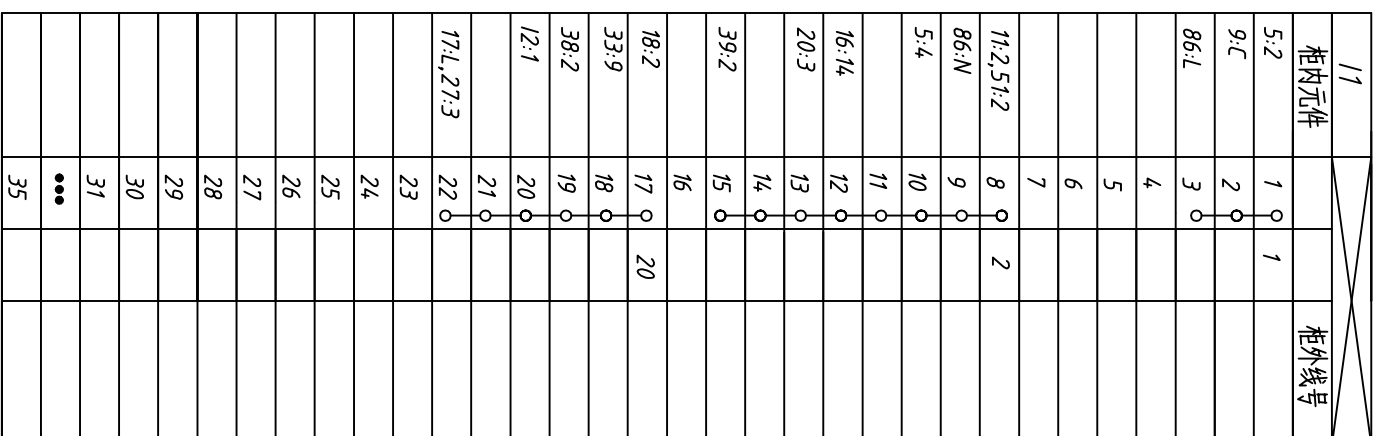
### 图 10-1-10 软起动柜接线图



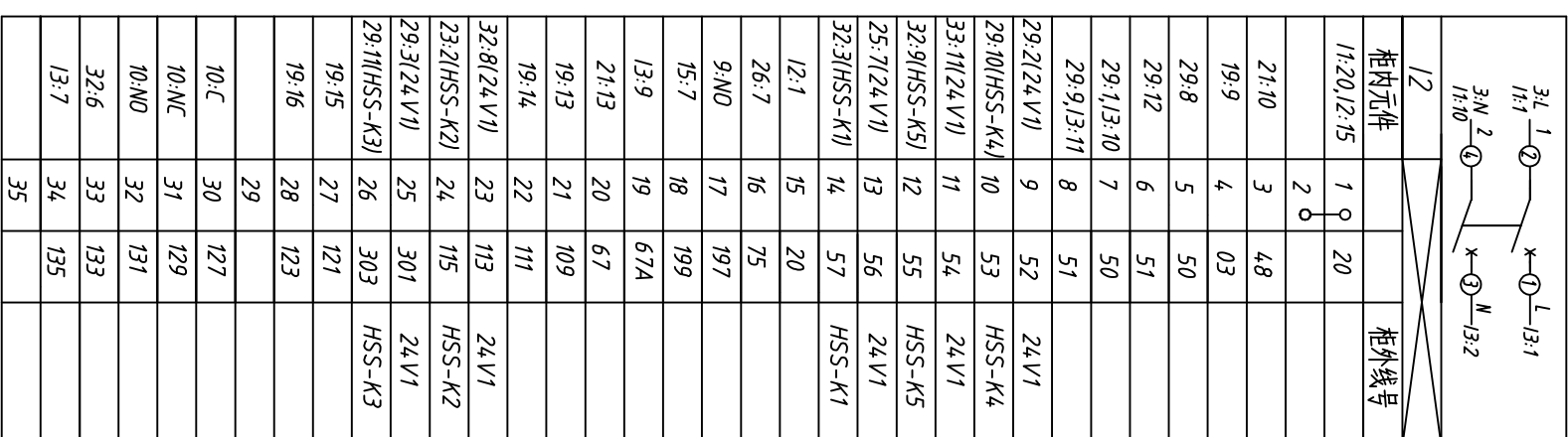
x: 为 $2.5mm^2$  规格的线

——是光纤，不能折弯，不需要打线号

## 端子排 (低压室下部)



说明: 1. 使用外部急停时, 应将用户端子/2第17、18间短接线拆开。  
2. 使用允许启动时, 应将用户端子/2第19、20间短接线拆开。

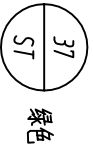
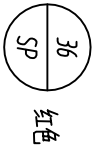
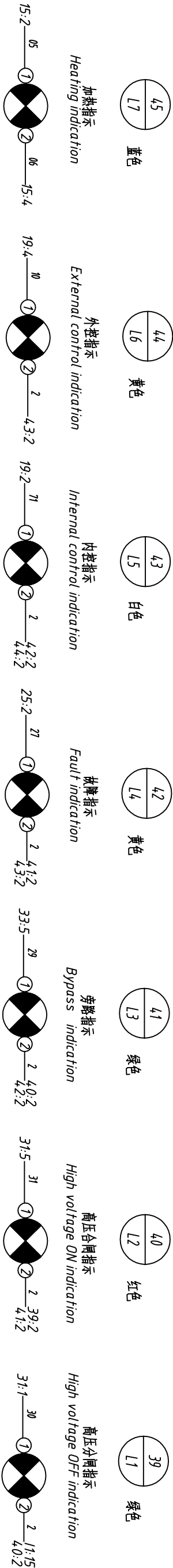


| 合同号                       |    | 柜号    |    | 2402015086~88        |    |    |
|---------------------------|----|-------|----|----------------------|----|----|
|                           |    |       |    |                      |    |    |
|                           |    |       |    | 中高压交流电动机固态软启动装置二次接线图 |    |    |
|                           |    |       |    |                      |    |    |
|                           |    |       |    |                      |    |    |
|                           |    |       |    |                      |    |    |
|                           |    |       |    |                      |    |    |
| 标记                        | 规格 | 更改文件号 | 签名 | 日期                   |    |    |
| 设计                        |    | 标准化   |    |                      |    |    |
| 制图                        |    | 审定    |    |                      |    |    |
| 校核                        |    | 批准    |    |                      |    |    |
| 工艺                        |    | 日期    |    | 2024.3.15            |    |    |
| 广西广投临港<br>(洛阳中重自动化工程有限公司) |    |       |    |                      |    |    |
| 索肯和平(上海)电气科技股份有限公司        |    |       |    | 图样标记                 | 重量 | 比例 |
|                           |    |       |    | 共3张第1张               |    |    |



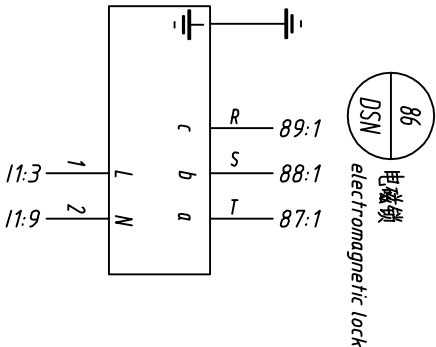
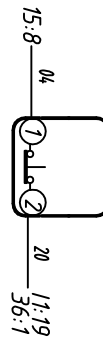
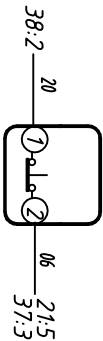


低压室门背视

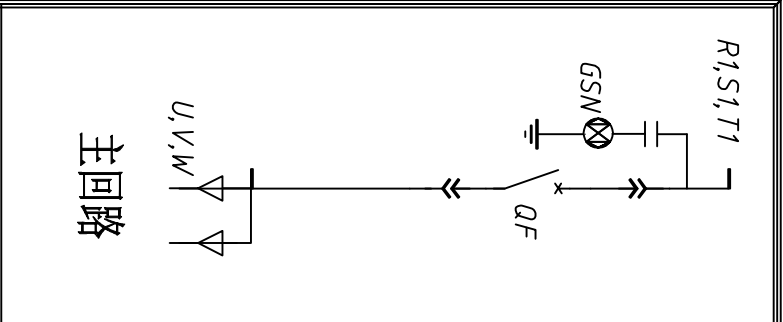


仪表室

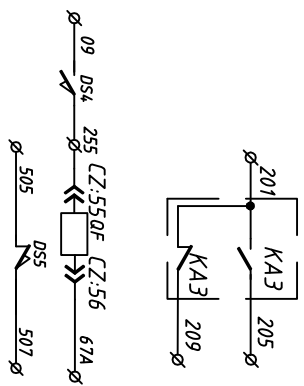
| 1/3   |    |     | 柜外线号 |
|-------|----|-----|------|
| 柜内元件  |    |     |      |
| 5:1   | 1  | L   |      |
| 5:3   | 2  | N   |      |
| 33:10 | 3  | 201 |      |
| 33:6  | 4  | 205 |      |
| 33:2  | 5  | 209 |      |
| 32:10 | 6  | 134 |      |
| 12:34 | 7  | 135 |      |
| 25:9  | 8  | 09  |      |
| 12:19 | 9  | 674 |      |
| 12:7  | 10 | 505 |      |
| 12:8  | 11 | 507 |      |
|       | 12 |     |      |
|       | 13 |     |      |
|       | 14 |     |      |
|       | 15 |     |      |
|       | 16 |     |      |
|       | 17 |     |      |
|       | 18 |     |      |
|       | 19 |     |      |
|       | 20 |     |      |



| 合同号 | 柜号 |      |                       |           |                    |    |
|-----|----|------|-----------------------|-----------|--------------------|----|
|     |    |      | HPMV-DN-10-500+Modbus |           |                    |    |
|     |    |      | 中高压交流电动机固态软启动装置二次接线图  |           |                    |    |
|     |    |      | 2402015086~88         |           |                    |    |
| 设计  | 审核 | 设计材料 | 标准化                   | 签名        | 日期                 | 重量 |
| 制图  |    |      | 审定                    |           |                    | 比例 |
| 校核  |    |      | 批准                    |           |                    |    |
| 工艺  |    |      | 日期                    | 2024.3.15 |                    |    |
|     |    |      | 广西广投临港                |           |                    |    |
|     |    |      | (洛阳中重自动化工程有限公司)       |           |                    |    |
|     |    |      |                       |           | 索肯和平(上海)电气科技股份有限公司 |    |
|     |    |      | 共3页                   |           | 第3页                |    |



## 主回路



## 高压旁路柜合闸控制（引自软起柜）

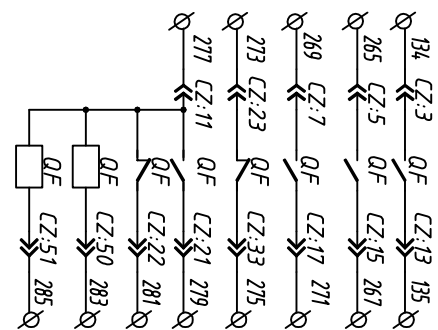
**Bypass ON control (Passive signal output)**

### 高压旁路柜分闸控制（引自软起柜）

*Bypass OFF control(Passive signal output*

联锁信号 (至软起柜允许起动信号)  
interlock signal

门禁联锁信号(至高压开关柜分闸回路)  
limited switch interlock



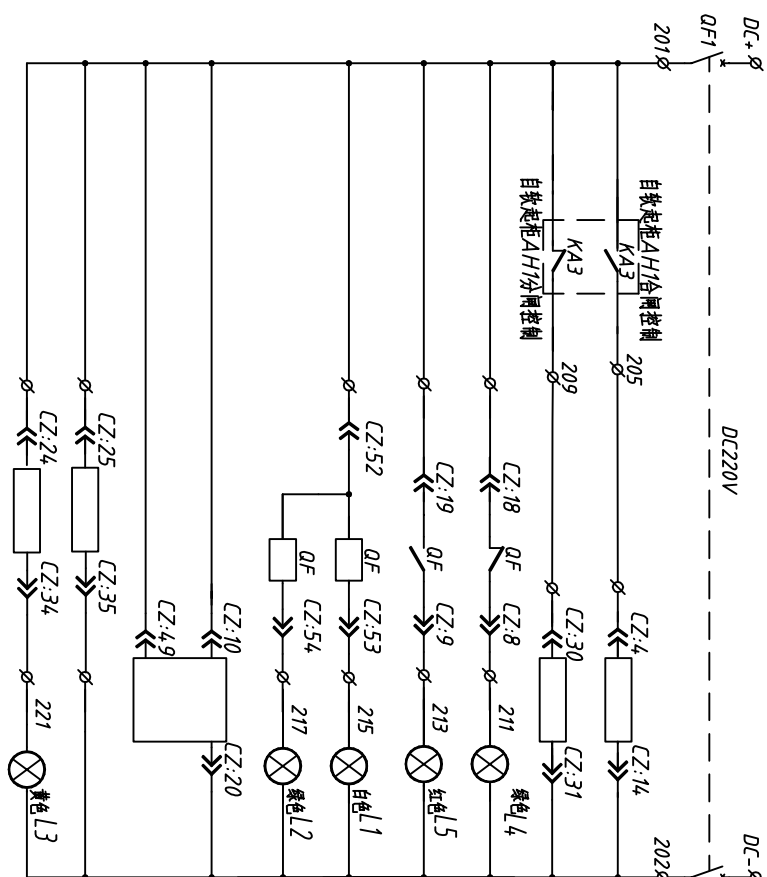
|                       |                   |                   |                   |                   |                   |                   |                   |
|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 5                     | 7                 | 11                | 5                 | 9                 | 11                | 3                 | 5                 |
| 弯                     | 弯                 | 弯                 | 弯                 | 弯                 | 弯                 | 弯                 | 弯                 |
| 弯踏信号/至扶起动能)           | 弯踏合闸信号/备用 by pass | 弯踏合闸信号/备用 by pass | 弯踏合闸信号/备用 by pass | 弯踏合闸信号/备用 by pass | 弯踏合闸信号/备用 by pass | 弯踏合闸信号/备用 by pass | 弯踏合闸信号/备用 by pass |
| by pass signal        |                   |                   |                   |                   |                   |                   |                   |
| 手车试验位置/备用             | 手车试验位置/备用         | 手车试验位置/备用         | 手车试验位置/备用         | 手车试验位置/备用         | 手车试验位置/备用         | 手车试验位置/备用         | 手车试验位置/备用         |
| Handcar test position |                   |                   |                   |                   |                   |                   |                   |
| 手车工作位置/备用             | 手车工作位置/备用         | 手车工作位置/备用         | 手车工作位置/备用         | 手车工作位置/备用         | 手车工作位置/备用         | 手车工作位置/备用         | 手车工作位置/备用         |
| Handcar work position |                   |                   |                   |                   |                   |                   |                   |

| I   |    | II  |     | III |   | IV  |  | V   |    | VI  |     | VII |    | VIII |  | IX  |    | X   |     | XI  |    | XII |  |
|-----|----|-----|-----|-----|---|-----|--|-----|----|-----|-----|-----|----|------|--|-----|----|-----|-----|-----|----|-----|--|
| QF1 | 1  | DC+ |     | QF1 | 2 | DC- |  | QF1 | 3  | L   |     | QF1 | 4  | O    |  | QF1 | 5  | N   |     | QF1 | 6  | O   |  |
| QF1 | 7  | Q   | 201 | QF1 | 8 | O   |  | QF1 | 9  | O   |     | QF1 | 10 | O    |  | QF1 | 11 | O   |     | QF1 | 12 | O   |  |
| QF1 | 13 | O   | 202 | CZ  |   |     |  | QF1 | 14 | O   |     | QF1 | 15 | O    |  | QF1 | 16 | O   |     | QF1 | 17 | O   |  |
| CZ  | 18 | O   |     |     |   |     |  | CZ  | 19 | Q   | 209 |     |    |      |  | CZ  | 20 | O   |     |     |    |     |  |
| CZ  | 21 | 211 | HG  |     |   |     |  | CZ  | 22 | 213 | HR  |     |    |      |  | CZ  | 23 | 215 | HW  |     |    |     |  |
| CZ  | 24 | 217 | HB  |     |   |     |  | CZ  | 25 |     |     |     |    |      |  | CZ  | 26 | 221 | HY  |     |    |     |  |
|     | 27 |     |     |     |   |     |  |     | 28 |     |     |     |    |      |  |     |    |     |     |     |    |     |  |
|     | 29 |     |     |     |   |     |  |     | 30 |     |     |     |    |      |  |     |    |     |     |     |    |     |  |
| CZ  | 31 | 134 |     |     |   |     |  | CZ  | 32 | 135 |     |     |    |      |  | CZ  | 33 | 265 |     |     |    |     |  |
| CZ  | 34 | 267 |     |     |   |     |  | CZ  | 35 | 269 |     |     |    |      |  | CZ  | 36 | 271 |     |     |    |     |  |
| CZ  | 37 | 273 |     |     |   |     |  | CZ  | 38 | 275 |     |     |    |      |  | CZ  | 39 | 09  |     |     |    |     |  |
| DS4 | 40 | 255 |     |     |   |     |  | DS4 | 41 | 67A |     |     |    |      |  | DS5 | 42 | 9   | 505 |     |    |     |  |
| DS5 | 43 | 507 |     |     |   |     |  | DS5 | 44 | 507 |     |     |    |      |  |     |    |     |     |     |    |     |  |
|     | 45 |     |     |     |   |     |  |     | 46 | 277 |     |     |    |      |  |     |    |     |     |     |    |     |  |
| CZ  | 47 | 279 |     |     |   |     |  | CZ  | 48 | 281 |     |     |    |      |  | CZ  | 49 | 283 |     |     |    |     |  |
| CZ  | 50 | 285 |     |     |   |     |  | CZ  | 51 |     |     |     |    |      |  | CZ  | 52 |     |     |     |    |     |  |
|     | 53 |     |     |     |   |     |  |     | 54 |     |     |     |    |      |  |     |    |     |     |     |    |     |  |
|     | 55 |     |     |     |   |     |  |     | 56 | 701 |     |     |    |      |  |     |    |     |     |     |    |     |  |
| QF2 | 57 | 702 |     |     |   |     |  | QF2 | 58 | 702 |     |     |    |      |  |     |    |     |     |     |    |     |  |
| MD  | 59 | 703 | DSN |     |   |     |  | MD  | 60 | 703 |     |     |    |      |  |     |    |     |     |     |    |     |  |
| CZ  | 61 | 703 |     |     |   |     |  | CZ  | 62 | 703 |     |     |    |      |  |     |    |     |     |     |    |     |  |
|     | 63 |     |     |     |   |     |  |     | 64 |     |     |     |    |      |  |     |    |     |     |     |    |     |  |
|     | 65 |     |     |     |   |     |  |     | 66 |     |     |     |    |      |  |     |    |     |     |     |    |     |  |

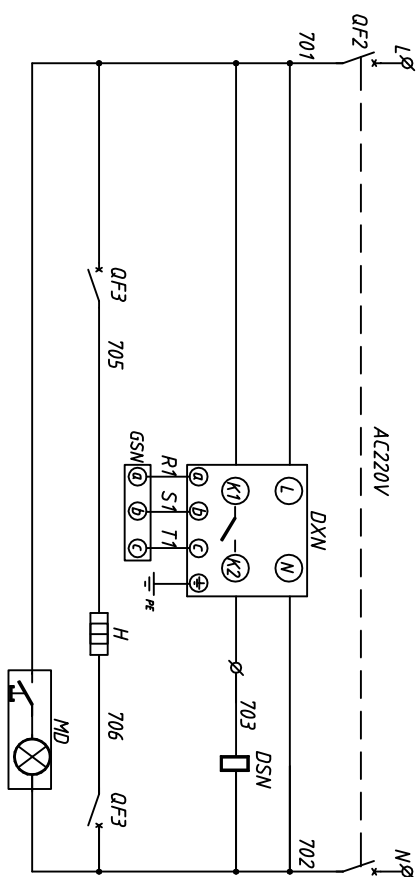
至软起柜 *To soft starter*

Control power 引自外部电源AC220V

auxiliary power 引自外部电源DC220V



|                       |                           |
|-----------------------|---------------------------|
| 控制电源<br>control power |                           |
| 合同控制                  | ON control                |
| 分闸控制                  | OFF control               |
| 旁路分闸指示                | OFF indication            |
| 旁路合闸指示                | ON indication             |
| 手车试验位置                | Handcart test position    |
| 手车工作位置                | Handcart work position    |
| 合闸闭锁电磁铁               | ON locking electromagnet  |
| 储能电机                  | Energy storage motor      |
| 储能指示                  | Energy storage indication |



|                                       |                                     |                                     |                        |                     |
|---------------------------------------|-------------------------------------|-------------------------------------|------------------------|---------------------|
| 辅助电源<br><i>Auxiliary power supply</i> | 电磁门锁<br><i>Electromagnetic lock</i> | 带电传感器<br><i>high voltage sensor</i> | 加热回路<br><i>Heating</i> | 照明回路<br><i>Lamp</i> |
|---------------------------------------|-------------------------------------|-------------------------------------|------------------------|---------------------|

|    |           |                         |                                    |    |       |
|----|-----------|-------------------------|------------------------------------|----|-------|
| 9  | H         | 加热器heater               | JRD 150W AC220V                    | 1  |       |
| 8  | L15       | 指示灯indicator            | XB2-BVM×LC DC220V                  | 5  |       |
| 7  | MD        | 照明灯lamp                 | CM1 AC220V                         | 1  |       |
| 6  | DSN       | 电磁锁Electromagnetic lock | DSN-AMZ AC220V                     | 1  |       |
| 5  | DXN(含GSN) | 带电显示器(含带电传感器)           | DXNB4-Q3 AC220V                    | 1  |       |
| 4  | DS4_5     | 行程开关limited switch      | D4MC-5020                          | 2  |       |
| 3  | QF3       | 小型断路器                   | C65N-2P C6A                        | 1  |       |
| 2  | QF1_2     | 小型断路器                   | C65N-2P C10A                       | 2  |       |
| 1  | QF(CZ)    | 真空断路器                   | ZN172-12/1250-31.5-210 DC220V 手车式1 |    | 施耐德宝光 |
| 序号 | 标 号       | 名 称                     | 型 号 规 格                            | 数量 | 备 注   |

|                           |    |      |     |           |                           |  |  |                   |  |     |    |
|---------------------------|----|------|-----|-----------|---------------------------|--|--|-------------------|--|-----|----|
| 合同号                       |    |      |     |           | 柜号                        |  |  |                   |  |     |    |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |
| 标记                        | 材质 | 更改材料 | 签名  |           | 日期                        |  |  |                   |  |     |    |
| 设计                        |    |      | 标准化 |           |                           |  |  |                   |  |     |    |
| 制图                        |    |      | 审定  |           |                           |  |  |                   |  |     |    |
| 校核                        |    |      | 批准  |           |                           |  |  |                   |  |     |    |
| 工艺                        |    |      | 日期  | 2024.3.15 |                           |  |  |                   |  |     |    |
| 广西广投临港<br>(洛阳中重自动化工程有限公司) |    |      |     |           | HPMV-10-500<br>高压旁路柜电气原理图 |  |  | 2402015086-1~88-1 |  |     |    |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |
|                           |    |      |     |           |                           |  |  | 图样标记              |  | 重量  | 比例 |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |
|                           |    |      |     |           |                           |  |  | 共1张               |  | 第1张 |    |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |
| 索肯和平(上海)电气科技股份有限公司        |    |      |     |           |                           |  |  |                   |  |     |    |
|                           |    |      |     |           |                           |  |  |                   |  |     |    |

说明: 1. 旁路真空断路器由软起动器发出旁路信号来自自动控制分合闸。

2.本柜体尺寸为800×1660×2400(宽×深×高mm);

3.柜体颜色为RAL 7035,

4.柜体防护等级:IP42。

日期

