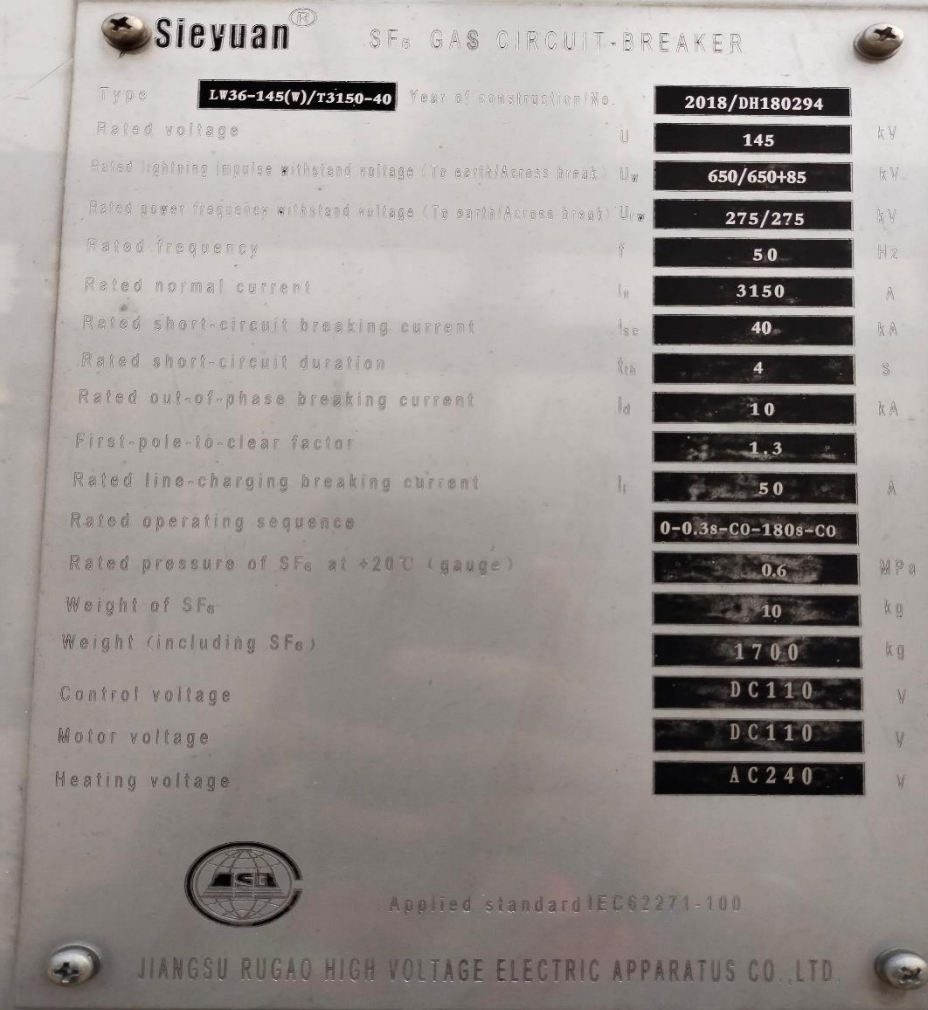
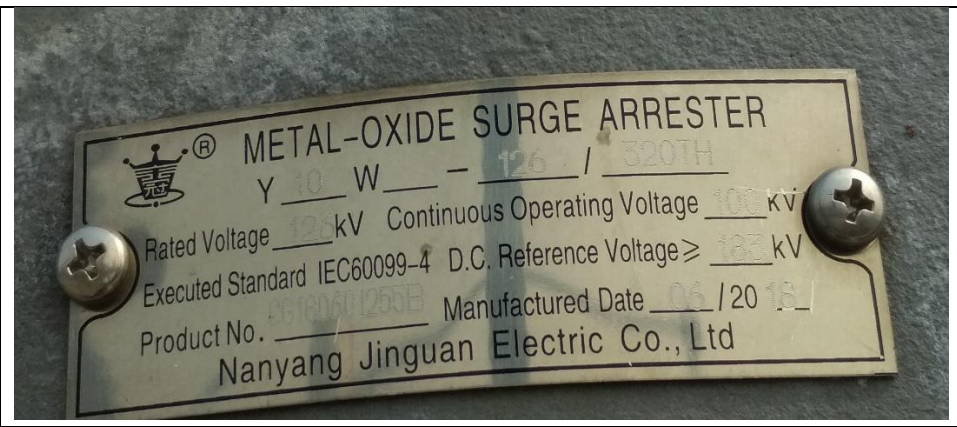


| Tender SI   | Description of Items            | Technical Specification  | Name Plate Picture   |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
|---|---------------------------------|--|--|-----------|-------|------|------|----------------------|--|--------------------------|---------------|--|---------------|-----|----|---|------------|----|---|---------|----|-----------------|----|----|----------------------|------|---|--------------------------------------|----|----|------------------------------|---|---|-------------------------------------|----|----|----------------------------|-----|--|--------------------------------------|----|---|--------------------------|-------------------|--|--|-----|-----|---------------|----|----|------------------------|------|----|-----------------|--------|---|---------------|--------|---|-----------------|--------|---|
| 1   | Circuit Breaker (SF6) HV System | <p>Sieyuan SF6 Gas Circuit Breaker;<br/> Model: LW36-145(W)/T3150-40,<br/> Rated voltage:145kV,<br/> Rated lightning impulse withstand voltage (To earth/Across break):650/650+85 kV,<br/> Rated power frequency withstand voltage (To earth/Across break):275/275 kV ,<br/> Rated frequency:50Hz,<br/> Rated normal current:3150A,<br/> Rated short circuit breaking current: 40kA,<br/> Rated short circuit duration:4S, Rated out of phase breaking current:10kA, First pole to clear factor:1.3, Rated line charging breaking current: 50A, Rated operating sequence: 0-0.3s-CO-180s-CO,<br/> Rated pressure of SF6 at +20°C (gauge): 0.6MPa, Weight of SF6:10kg,<br/> Weight including SF6:1700kg,<br/> Control voltage: DC1 10V,<br/> Motor voltage: DC110V,<br/> Heating voltage: AC240V,<br/> Applied standard: IEC62271-100,<br/> Manufac: JIANGSU RUGAO HIGH VOLTAGE ELECTRIC APP ARA TUS CO., LTD</p> |  <p>The name plate is a metal plate with a grid of technical specifications. At the top, it reads 'Sieyuan SF6 GAS CIRCUIT-BREAKER'. Below this, there are several rows of data, each with a label on the left and a value on the right. The values are printed on black rectangular backgrounds. At the bottom, there is a logo for 'JSA' and the text 'Applied standard IEC62271-100' and 'JIANGSU RUGAO HIGH VOLTAGE ELECTRIC APPARATUS CO., LTD'.</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>Type</td> <td>LW36-145(W)/T3150-40</td> <td></td> </tr> <tr> <td>Year of construction/No.</td> <td>2018/DH180294</td> <td></td> </tr> <tr> <td>Rated voltage</td> <td>145</td> <td>kV</td> </tr> <tr> <td>Rated lightning impulse withstand voltage (To earth/Across break)</td> <td>650/650+85</td> <td>kV</td> </tr> <tr> <td>Rated power frequency withstand voltage (To earth/Across break)</td> <td>275/275</td> <td>kV</td> </tr> <tr> <td>Rated frequency</td> <td>50</td> <td>Hz</td> </tr> <tr> <td>Rated normal current</td> <td>3150</td> <td>A</td> </tr> <tr> <td>Rated short-circuit breaking current</td> <td>40</td> <td>kA</td> </tr> <tr> <td>Rated short-circuit duration</td> <td>4</td> <td>s</td> </tr> <tr> <td>Rated out-of-phase breaking current</td> <td>10</td> <td>kA</td> </tr> <tr> <td>First-pole-to-clear factor</td> <td>1.3</td> <td></td> </tr> <tr> <td>Rated line-charging breaking current</td> <td>50</td> <td>A</td> </tr> <tr> <td>Rated operating sequence</td> <td>0-0.3s-CO-180s-CO</td> <td></td> </tr> <tr> <td>Rated pressure of SF6 at +20°C (gauge)</td> <td>0.6</td> <td>MPa</td> </tr> <tr> <td>Weight of SF6</td> <td>10</td> <td>kg</td> </tr> <tr> <td>Weight (including SF6)</td> <td>1700</td> <td>kg</td> </tr> <tr> <td>Control voltage</td> <td>DC 110</td> <td>V</td> </tr> <tr> <td>Motor voltage</td> <td>DC 110</td> <td>V</td> </tr> <tr> <td>Heating voltage</td> <td>AC 240</td> <td>V</td> </tr> </tbody> </table> | Parameter | Value | Unit | Type | LW36-145(W)/T3150-40 |  | Year of construction/No. | 2018/DH180294 |  | Rated voltage | 145 | kV | Rated lightning impulse withstand voltage (To earth/Across break) | 650/650+85 | kV | Rated power frequency withstand voltage (To earth/Across break) | 275/275 | kV | Rated frequency | 50 | Hz | Rated normal current | 3150 | A | Rated short-circuit breaking current | 40 | kA | Rated short-circuit duration | 4 | s | Rated out-of-phase breaking current | 10 | kA | First-pole-to-clear factor | 1.3 |  | Rated line-charging breaking current | 50 | A | Rated operating sequence | 0-0.3s-CO-180s-CO |  | Rated pressure of SF6 at +20°C (gauge) | 0.6 | MPa | Weight of SF6 | 10 | kg | Weight (including SF6) | 1700 | kg | Control voltage | DC 110 | V | Motor voltage | DC 110 | V | Heating voltage | AC 240 | V |
| Parameter   | Value                           | Unit   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Type  | LW36-145(W)/T3150-40            |  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Year of construction/No.  | 2018/DH180294                   |  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated voltage   | 145                             | kV   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated lightning impulse withstand voltage (To earth/Across break) | 650/650+85                      | kV   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated power frequency withstand voltage (To earth/Across break)   | 275/275                         | kV   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated frequency   | 50                              | Hz   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated normal current  | 3150                            | A  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated short-circuit breaking current                              | 40                              | kA   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated short-circuit duration                                      | 4                               | s  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated out-of-phase breaking current                               | 10                              | kA   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| First-pole-to-clear factor  | 1.3                             |  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated line-charging breaking current                              | 50                              | A  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated operating sequence  | 0-0.3s-CO-180s-CO               |  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Rated pressure of SF6 at +20°C (gauge)                            | 0.6                             | MPa  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Weight of SF6   | 10                              | kg   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Weight (including SF6)  | 1700                            | kg   |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Control voltage   | DC 110                          | V  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Motor voltage   | DC 110                          | V  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |
| Heating voltage   | AC 240                          | V  |  |           |       |      |      |                      |  |                          |               |  |               |     |    |   |            |    |   |         |    |                 |    |    |                      |      |   |                                      |    |    |                              |   |   |                                     |    |    |                            |     |  |                                      |    |   |                          |                   |  |  |     |     |               |    |    |                        |      |    |                 |        |   |               |        |   |                 |        |   |

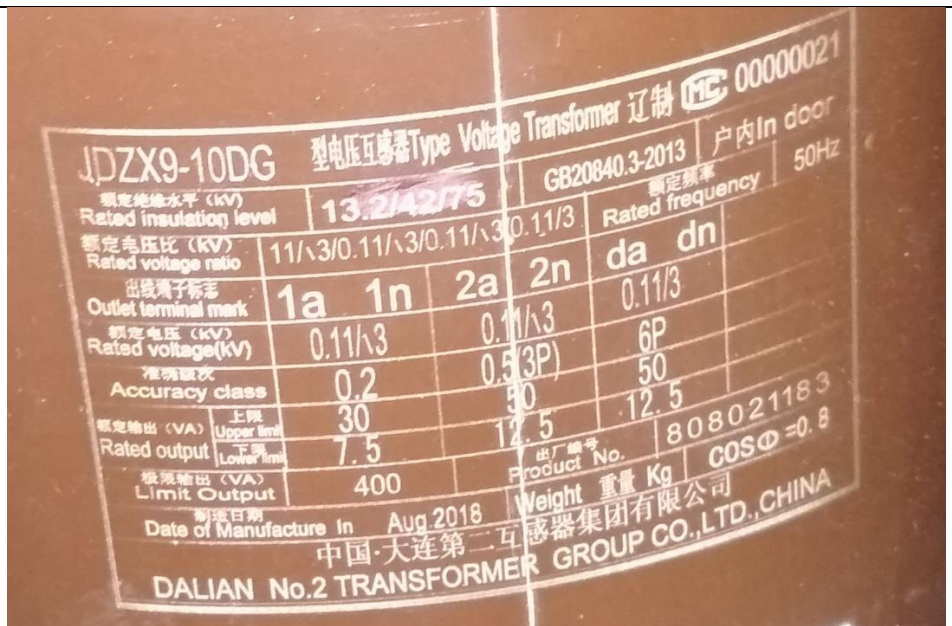
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| 2 | Lightning Arrester | <p>Metal Oxide Surge Arrester;<br/> Y 10 W -126/320TH; Rated voltage: 126kV;<br/> Continuous operating voltage: 100kV;<br/> Executed Standard IEC60099-4;<br/> DC Reference voltage <math>\geq</math> 183kV; Product no. CG180601255B;<br/> Manufac: Nanyang Jinguan Electric Co. Ltd. or Equivalent</p> |
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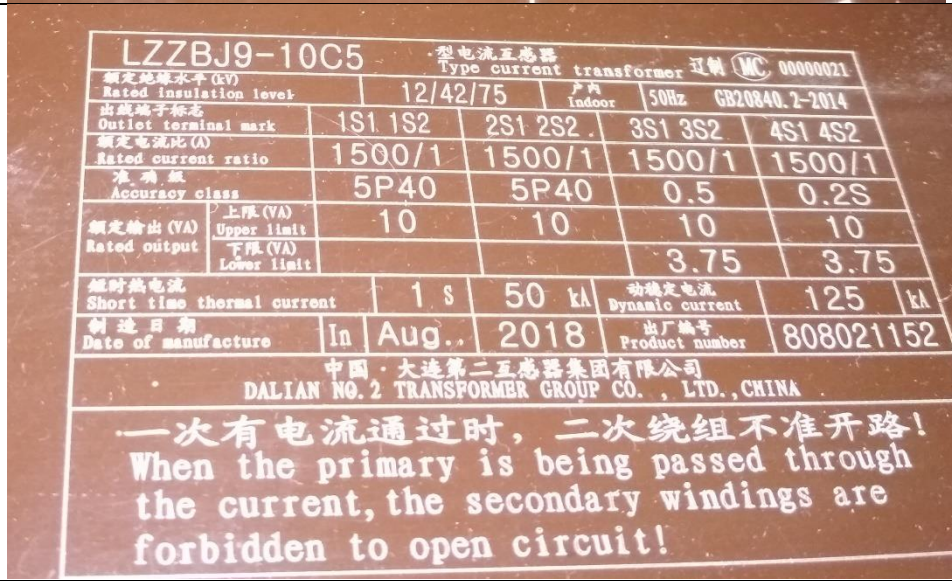
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| 3 | Surge arrester MV System (Generator) | <p>Metal Oxide surge arrester;<br/> Type: Y5WB-15/34 4000A;<br/> Voltage level :<br/> Nominal system voltage:10kV,<br/> Manufac: Xian Shendian Electric Co. Ltd. or Equivalent</p> |
|---|--------------------------------------|--|



|   |  |   |
|---|--|---|
| 4 | Potential Transformer (PT) MV System (Generator) | <p>Model no: JDZX9-10DG; Rated insulation level(kV): 13.2/42/75; indoor; 50Hz; Rated voltage ratio(kV): 11/√3,0.11/√3,0.11/√3,0.11/3; Rated voltage(kV): .11/√3, .11/√3, .11/3; Accuracy class: 0.2, 0.5(3P), 6P; Rated output (VA): Upper limit 30/50/50, Lower limit 7.5,12.5,12.5; Limit output: 400V A; pf:0.8; Manufac: DALIAN No. 2 TRANSFORMER GROUP CO. LTD. CHINA. or Equivalent</p> |
|---|--|---|



|   |                          |   |
|---|--------------------------|---|
| 5 | Current Transformer (CT) | <p>Model No: LZZBJ9-10C5; Rated insulation level: 12/42/75; Indoor; 50Hz; Rated current ratio: 1500/1,1500/1,1500/1,1500/1; Accuracy class: 5P40,5P40,0.5,0.2S; Rated output (V A): Upper limit 10 10 10 10 Lower limit 0 0 3.75 3.75; Short time thermal current: 1s 50 kA; Dynamic current: 125kA; Manufac: DALIAN No. 2 TRANSFORMER GROUP CO. L TD. CHINA. or Equivalent</p> |
|---|--------------------------|---|



|   |                          |  |
|---|--------------------------|--|
| 6 | Current Transformer (CT) | LHD-200; Ratio: 100/1A; Accuracy class: 5P10; Rated output(VA): 10V A, voltage level : Rated voltage: 11kV<br>Insulation level: 12/42/75kV or Equivalent |
|---|--------------------------|--|



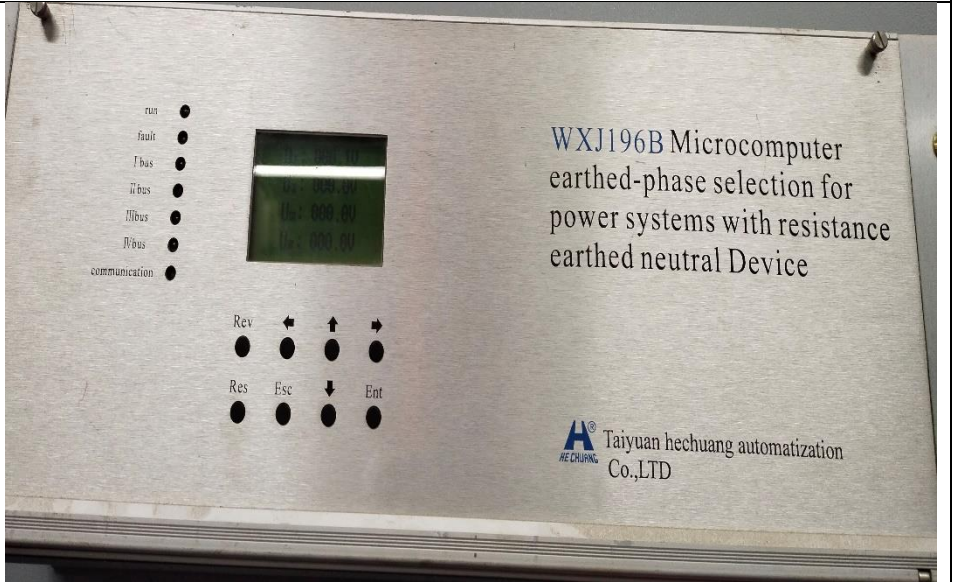
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| 7 | Intelligent control device of switch cabinet (For Generator) | Model: HCH7101C, control voltage: Load power supply: AC240V<br>Device power supply: DC110V, K Hechuang Automation. or Equivalent |
|---|--|--|



|   |  |  |
|---|--|--|
| 8 | Voltage transmitter MV System (PT Cabinet) | Type:BD-3V3, PT: AC120V, AO1/AO2/AO3:0-120V/DC 4-20mA, Power:110VDC, ACREL or Equivalent |
|---|--|--|

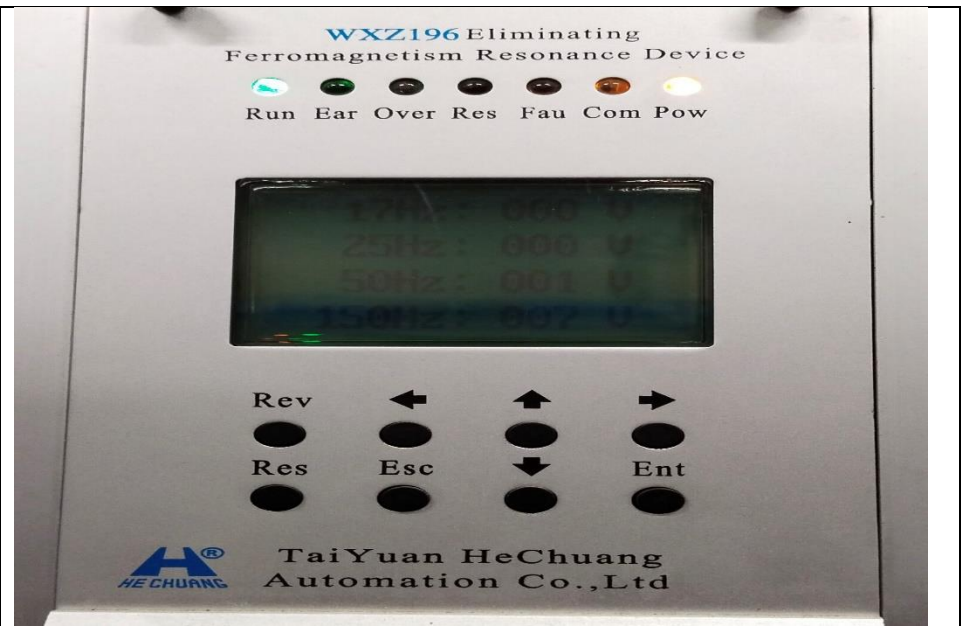


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| 9 | Microcomputer device MV System (PT Cabinet) | WXJ196B (Microcomputer earthed-phase selection for power systems with resistance earthed neutral device), Type: WXJ196B-28Y, Control voltage: Device voltage: DC110V, Taiyuan hechuang automation or Equivalent |
|---|---|---|



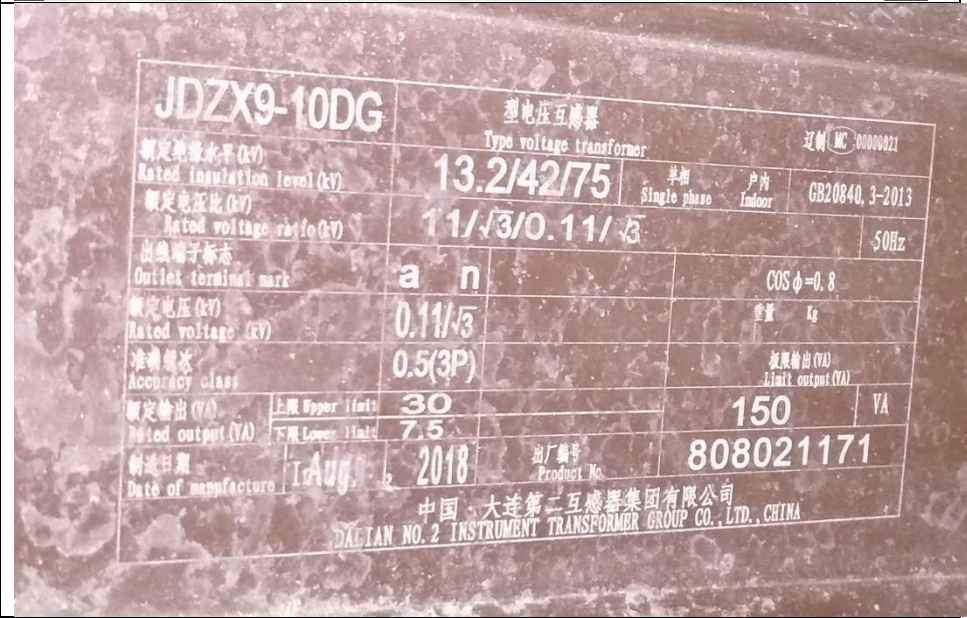
10 Microcomputer device  
MV System (PT Cabinet)

WXZ196 (Eliminating ferromagnetism resonance device)  
Type: WXZ196-4,  
Voltage level: Rated system voltage: (AC/DC 100V-260V),  
Taiyuan hechuang automation or Equivalent



11 Potential Transformer (PT)  
MV System (Main Transformer)

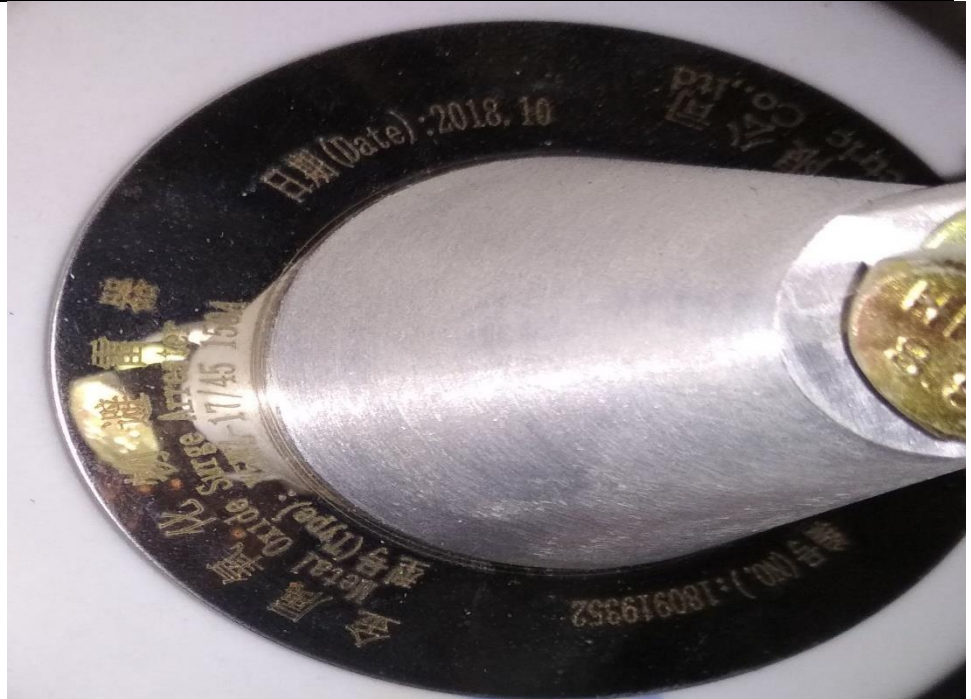
Model no: JDZX9-10DG; Rated insulation level(kV): 13.2/42/75; Single phase, indoor; 50Hz; Rated voltage ratio(kV): 11/√3,0.11/√3;  
Rated voltage(kV): .11/√3;  
Accuracy class: 0.5(3P);  
Rated output (V A): Upper limit 30, Lower limit 7.5; Limit output: 150V A;  
Manufac: DALIAN No. 2 TRANSFORMER GROUP CO. L TD. CHINA. or Equivalent



|    |                                    |  |
|----|------------------------------------|--|
| 12 | Current Transformer (CT) MV System | LZZBJ9-12; 4000/1A, 4000/1A, 4000/1A, 5P20,5P20,0.5, 10VA, 10VA, 10VA, 9905 10 3-838-6 H, voltage level: Rated voltage: 11kV Insulation level: 12/42/75kV, or Equivalent |
|----|------------------------------------|--|



|    |   |   |
|----|---|---|
| 13 | Surge arrester MV System (Aux. Transformer) | Metal Oxide surge arrester; Type: Y5WZ-17/45 150A; voltage level: Nominal system voltage:10kV Rated voltage: 17kV, Manufac: Xian Shendian Electric Co. Ltd. or Equivalent |
|----|---|---|



|    |   |   |
|----|---|---|
| 14 | Current Transformer (CT) MV System (Aux. Transformer) | <p>Model No: LZZBJ9-10C5; Rated insulation level: 12/42/75; Indoor; 50Hz; Rated current ratio: 600/1,600/1,300/1; Accuracy class: 5P40,5P40,0.5; Rated output (VA): Upper limit 10 10 10 Lower limit 0 0 3.75; Short time thermal current: 1s 50 kA; Dynamic current: 125kA; Manufac: DALIAN No. 2 TRANSFORMER GROUP CO. LTD. CHINA or Equivalent</p> |
|----|---|---|

