
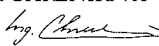





DOKUMENTACE SKUTEČNÉHO PROVEDENÍ

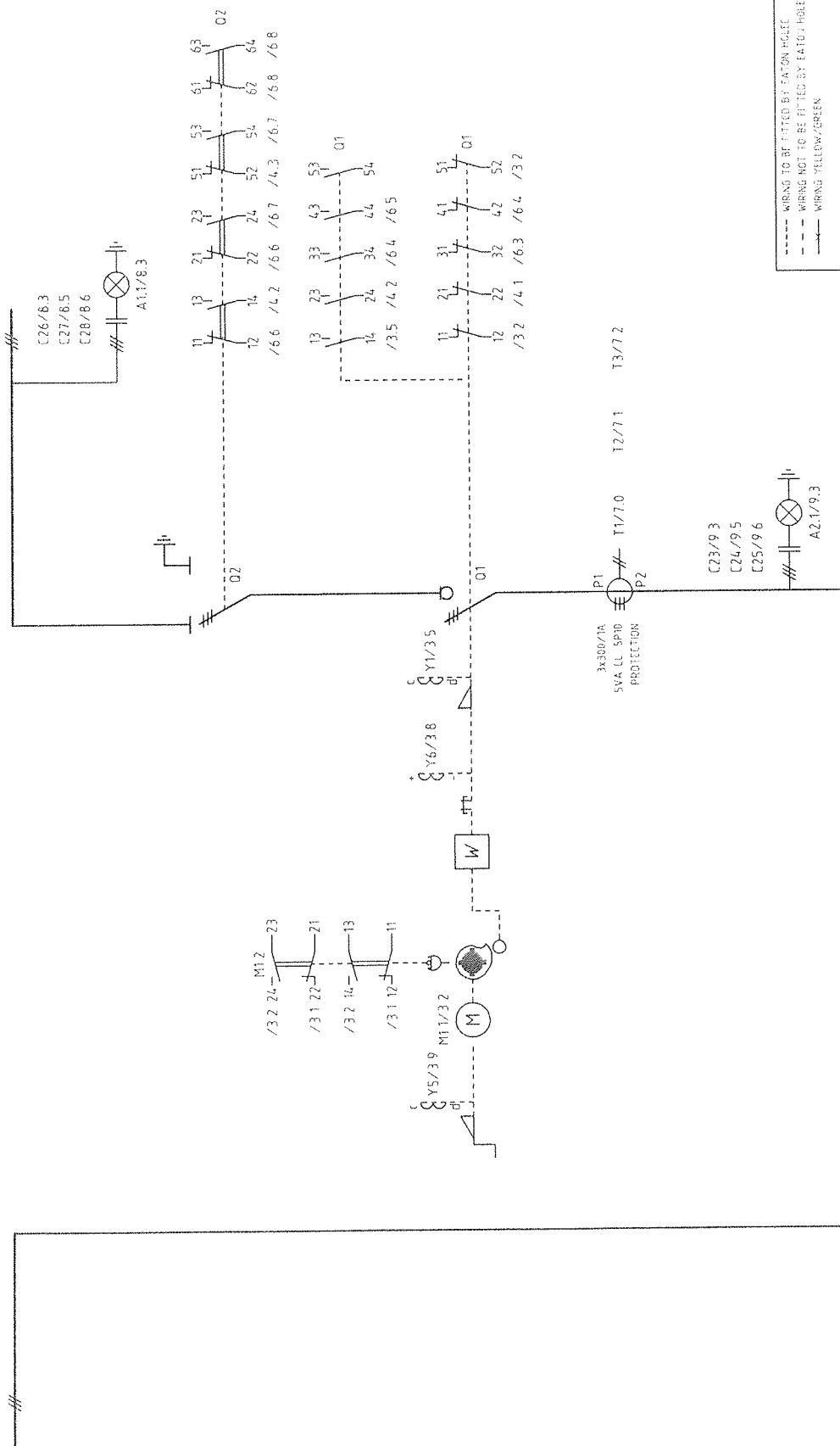
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Česká republika
tel.: 224 22 71 68
fax: 224 23 03 16
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E-mail: praha@sudop.cz

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| OBJEDNATEL | Správa železniční dopravní cesty, s.o. a České dráhy a.s. v zastoupení: SŽDC s.o., Stavení správa Olomouc, Nerudova 1, 772 58 Olomouc | | |
| STŘEDISKO | 208 ELEKTROTECHNIKY, TRAKCE, SDĚLOVACÍ A ZABEZPEČOVACÍ TECHNIKY | VEDOUCÍ STŘEDISKA ING. MARTIN RAIBR | GENERÁLNÍ ŘEDITEL ING. JOSEF FIDLER |
| ODPOVĚDNÝ PROJEKTANT STAVBY | ODPOVĚDNÝ PROJ. OBJ., PS | NAVRHL, VYPRACOVAL | KONTROLOVAL |
| ING. MONIKA CHRENKOVÁ MCO a.s.  | ING. PETR VEČEŘ  | ING. PETR VEČEŘ  | ING. KAREL KREMLÁČEK  |
| KRAJ | OLOMOUCKÝ | MÚ/OÚ/POVĚŘENÁ OBEC | ŠUMPERK |
| Elektrizace trati Zábřeh - Šumperk PS 04-09-01 Žst. Šumperk, TM Šumperk, technologie - rozvaděč 22 kV | | ÚČEL | DSP |
| | | DATUM | 04/2010 |
| | | MĚŘÍTKO | — |
| Obvodové schéma - rozvaděč 22 kV - spojka přípojníc SP2 | | FORMÁTY | A4 |
| | | ČÁST D.3.3 | PŘÍL. 16 |

SP1
SPOJKA PRIPOJNIC



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-----WRNG YELLOW/GREEN

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
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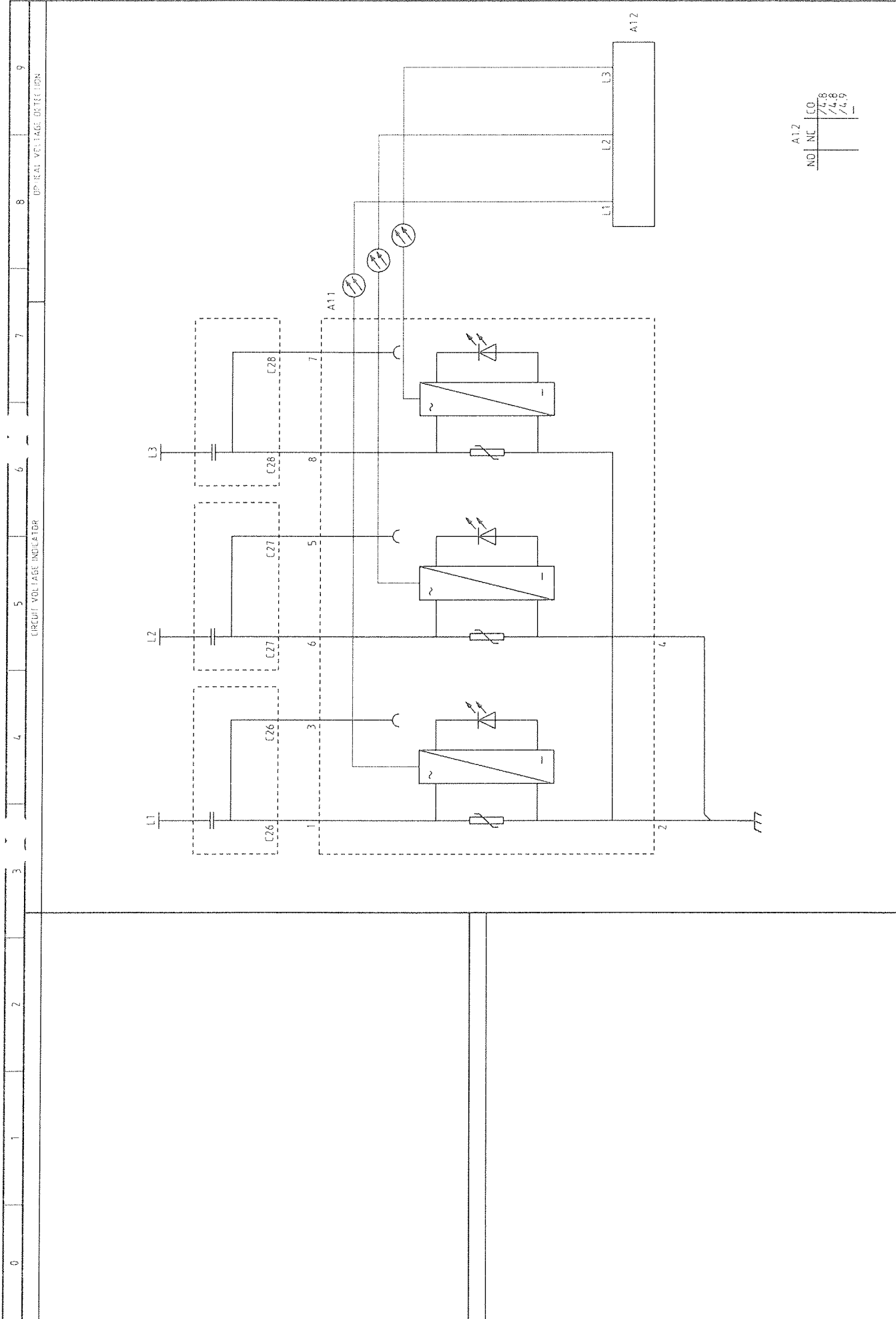
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NOTE DRAWN
01 - OPEN / WITH SPRING CHARGED
02 - IN THE OPERATING POSITION

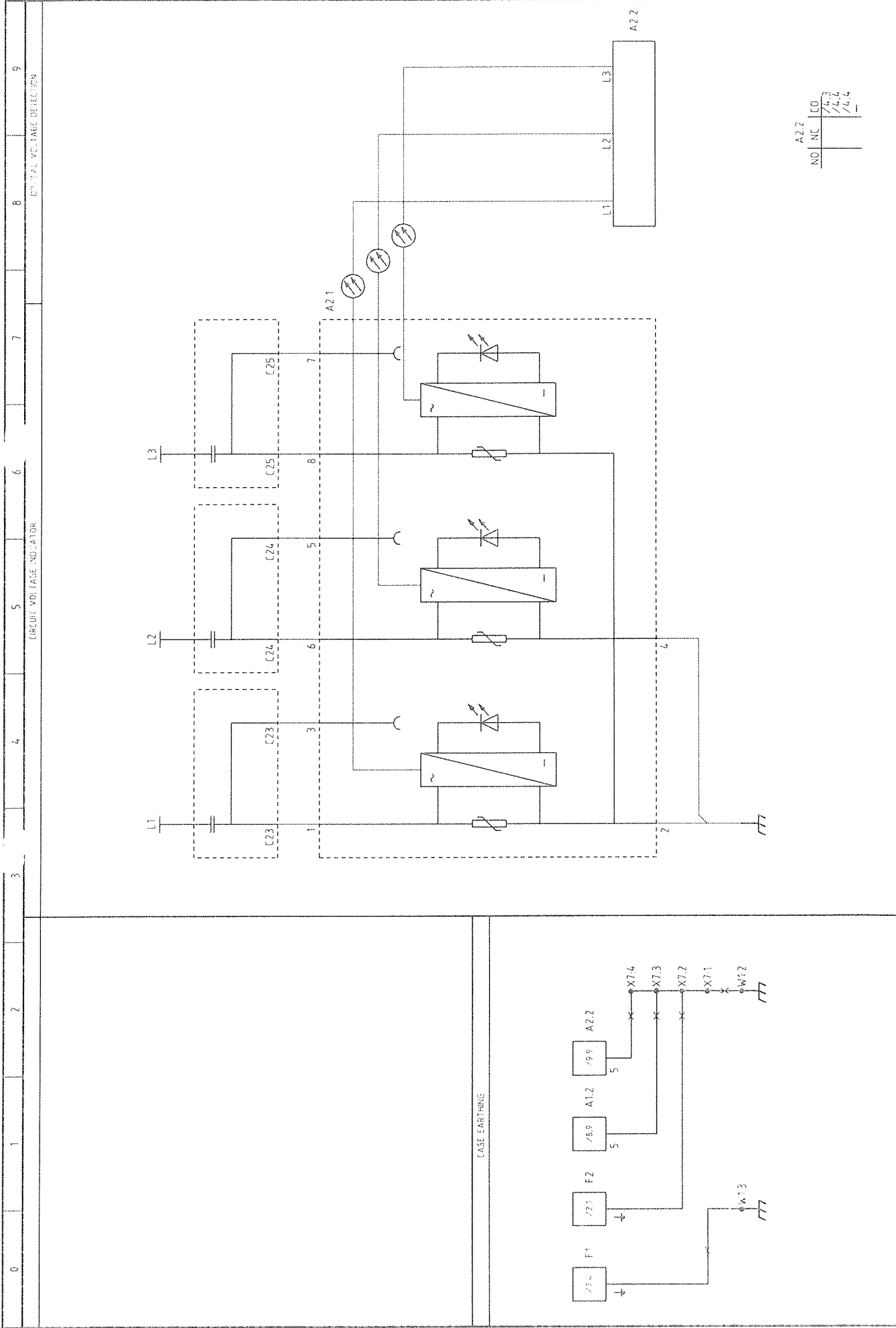
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| <div style="display: flex; justify-content: space-between;"> <div> <p>AUXILIARY CONTACTS</p> <p>CIRCUIT BREAKER</p> </div> <div> <p>CAPTURING POSITION</p> <p>CHANGEOVER SWITCH</p> </div> <div> <p>OPERATING POSITION</p> </div> </div> | | | | | | | | | |
| | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div> <p>PROTECTION RELAY</p> </div> <div> <p>SPARE</p> </div> </div> | | | | | | | | | |
| | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div> <p>CIRCUIT DIAGRAM</p> </div> <div> <p>SPARE</p> </div> </div> | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> <div> <p>MR SUMPERK, SWITCHBOARD 22kV</p> <p>SIGNALBAU - CZECH REPUBLIC</p> </div> <div> <p>Project: 304201</p> <p>Inst. type: SVS-08</p> </div> <div> <p>Sheet 6</p> <p>15 sh</p> </div> </div> | | | | | | | | | |

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| CIRCUIT DIAGRAM | | Eaton Holec | | drawn | 08-05-2009 | LW | drawing nr | R3-C-304201 XII | | sheet | 8 |
| MR SUMPERK, SWITCHBOARD 22kV | | Project | | 304201 | Inst | Type: SVS-08 | check | 08-05-2009 | V Thiel | | |
| SIGNALBAU - CZECH REPUBLIC | | Ref | | Eaton Holec Medium Voltage, part of Eaton-Electric B.V. | drawn | 08-05-2009 | DE JONG | 08-05-2009 | DE JONG | 15 st | |
| | | | | | check | 08-05-2009 | | | | Replaces | |
| | | | | | drawn | 08-05-2009 | | | | | |



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| CIRCUIT DIAGRAM | | | R3-C-304201 XII | | | sheet 9 | | |
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| MR SUMPERK, SWITCHBOARD 22kV | | | R3-C-304201 XII | | | sheet 9 | | |
| SIGNALBAU - CZECH REPUBLIC | | | R3-C-304201 XII | | | sheet 15 | | |
| Project: 304201 | | | Drawing nr | | | 15 sh | | |
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| CODE | DESCRIPTION | | | | | | | | | | | | | | | | | | |
| A11 | LED VOLTAGE INDICATOR | | | | | | | | | | | | | | | | | | |
| A12 | VOLTAGE INDICATOR INTERFACE WITH OPTICAL INPUTS | | | | | | | | | | | | | | | | | | |
| A21 | LED VOLTAGE INDICATOR | | | | | | | | | | | | | | | | | | |
| A22 | VOLTAGE INDICATOR INTERFACE WITH OPTICAL INPUTS | | | | | | | | | | | | | | | | | | |
| C23 | CAPACITOR | | | | | | | | | | | | | | | | | | |
| C24 | CAPACITOR | | | | | | | | | | | | | | | | | | |
| C25 | CAPACITOR | | | | | | | | | | | | | | | | | | |
| C26 | CAPACITOR | | | | | | | | | | | | | | | | | | |
| C27 | CAPACITOR | | | | | | | | | | | | | | | | | | |
| C28 | CAPACITOR | | | | | | | | | | | | | | | | | | |
| F1 | PROTECTION RELAY | | | | | | | | | | | | | | | | | | |
| F2 | OVERVOLTAGE RELAY | | | | | | | | | | | | | | | | | | |
| F6 | NO-VOLTAGE RELEASE COIL MEASURINGSET | | | | | | | | | | | | | | | | | | |
| F100 | MINIATURE CIRCUIT-BREAKER | | | | | | | | | | | | | | | | | | |
| F101 | MINIATURE CIRCUIT-BREAKER | | | | | | | | | | | | | | | | | | |
| F102 | MINIATURE CIRCUIT-BREAKER | | | | | | | | | | | | | | | | | | |
| F103 | MINIATURE CIRCUIT-BREAKER | | | | | | | | | | | | | | | | | | |
| F105 | MINIATURE CIRCUIT-BREAKER | | | | | | | | | | | | | | | | | | |
| K1 | AUXILIARY RELAY | | | | | | | | | | | | | | | | | | |
| K2 | AUXILIARY RELAY | | | | | | | | | | | | | | | | | | |
| K6 | AUXILIARY RELAY | | | | | | | | | | | | | | | | | | |
| M11 | SPRING-CHARGING AND CLOSING MOTOR | | | | | | | | | | | | | | | | | | |
| M12 | AUXILIARY CONTACTS SPRING CHARGING MOTOR | | | | | | | | | | | | | | | | | | |
| | 11-12, 21-22, . CLOSED ONLY WHEN THE SWITCH IS OPEN | | | | | | | | | | | | | | | | | | |
| | 13-14, 23-24 OPENED ONLY WHEN SPRING IS CHARGED | | | | | | | | | | | | | | | | | | |
| D1 | SWITCH | | | | | | | | | | | | | | | | | | |
| | AUXILIARY CONTACTS SWITCH | | | | | | | | | | | | | | | | | | |
| | 11-12, 21-22, . CLOSED ONLY WHEN THE SWITCH IS OPEN | | | | | | | | | | | | | | | | | | |
| | 13-14, 23-24, . . CLOSED ONLY WHEN THE SWITCH IS CLOSED | | | | | | | | | | | | | | | | | | |
| O2 | CHANGEOVER SWITCH | | | | | | | | | | | | | | | | | | |
| | AUXILIARY CONTACTS CHANGEOVER SWITCH | | | | | | | | | | | | | | | | | | |
| | 11-12, 21-22 OPENED ONLY IN THE EARTHING POSITION | | | | | | | | | | | | | | | | | | |
| | 13-14, 23-24 CLOSED ONLY IN THE EARTHING POSITION | | | | | | | | | | | | | | | | | | |
| | 51-52, 61-62 CLOSED ONLY IN THE OPERATING POSITION | | | | | | | | | | | | | | | | | | |
| | 53-54, 63-64 OPENED ONLY IN THE OPERATING POSITION | | | | | | | | | | | | | | | | | | |
| S0 | PUSH-BUTTON "OFF" (WHITE) | | | | | | | | | | | | | | | | | | |
| S1 | PUSH-BUTTON "ON" (GREEN) - PAULOCKABLE | | | | | | | | | | | | | | | | | | |
| Project: 304201 | | | | | | | | | | | | | | | | | | | |
| Inst. type: SVS-06 | | | | | | | | | | | | | | | | | | | |
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| CODE | DESCRIPTION | | | | | | | | |
| S4 | AUXILIARY CONTACT CONTROLLED BY THE SELECTOR 11-12 CLOSED ONLY WHEN THE SELECTOR IS IN THE LEFT POSITION 13-14 OPENED ONLY WHEN THE SELECTOR IS IN THE LEFT POSITION | | | | | | | | |
| SA1 | SELECTOR SWITCH | | | | | | | | |
| T1 | CURRENT TRANSFORMER | | | | | | | | |
| T2 | CURRENT TRANSFORMER | | | | | | | | |
| T3 | CURRENT TRANSFORMER | | | | | | | | |
| W1 | EARTH CONNECTION | | | | | | | | |
| X0 | TERMINAL STRIP | | | | | | | | |
| X1 | TERMINAL STRIP | | | | | | | | |
| X2 | TERMINAL STRIP | | | | | | | | |
| X3 | TERMINAL STRIP | | | | | | | | |
| X6 | EARTH STRIP | | | | | | | | |
| X7 | EARTH STRIP | | | | | | | | |
| FX1 | TERMINAL STRIP | | | | | | | | |
| Y1 | TRIP COIL | | | | | | | | |
| Y5 | LOCKING COIL ON OPERATING SHAFT OF THE CIRCUIT-BREAKER MECHANICAL CLOSING OF THE CIRCUIT-BREAKER IS ONLY POSSIBLE WITH ENERGISED COIL | | | | | | | | |
| Y6 | NO-VOLTAGE RELEASE COIL | | | | | | | | |
| | | | | MAKE | TYPE | ART NR | CIRCUIT NR | UNIT WIRING DIAGRAM | |
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| | | | | PHOENIX | UK5-TWIN | | /13.1 | | |
| | | | | PHOENIX | UK5-TWIN | | /13.4 | | |
| | | | | PHOENIX | UGSK 6 | | /14.1 | | |
| | | | | PHOENIX | UK5-TWIN | | /14.2 | | |
| | | | | PHOENIX | UK5-TWIN | | /15.1 | | |
| | | | | KENDRION | HBMX6060 01A10, 1.2A, 110V DC | E310592 | /1.5 | | |
| | | | | KENDRION | DBMX6040 01N010, 0.14A, 110V DC | E310592 | /1.3 | | |
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
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| 0 | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REMOTE END DESIGNATION | | CABLE NO. AND NO. OF CORES | | TERMINAL STRIP X2 | |  | | F1 : 02 | | F1 : 01 | | F1 : 03 | | F1 : 04 | | F1 : 05 | | F1 : 06 | | F1 : 07 | | F1 : 08 | | F1 : 09 | | F1 : 10 | | F1 : 11 | | F1 : 12 | | F1 : 13 | | F1 : 14 | | F1 : 15 | | F1 : 16 | | F1 : 17 | | F1 : 18 | | F1 : 19 | | F1 : 20 | | F1 : 21 | | F1 : 22 | | F1 : 23 | | F1 : 24 | | F1 : 25 | | F1 : 26 | | F1 : 27 | | F1 : 28 | | F1 : 29 | | F1 : 30 | | F1 : 31 | | F1 : 32 | | F1 : 33 | | F1 : 34 | | F1 : 35 | | F1 : 36 | | F1 : 37 | | F1 : 38 | | F1 : 39 | | F1 : 40 | | F1 : 41 | | F1 : 42 | | F1 : 43 | | F1 : 44 | | F1 : 45 | | F1 : 46 | | F1 : 47 | | F1 : 48 | | F1 : 49 | | F1 : 50 | | F1 : 51 | | F1 : 52 | | F1 : 53 | | F1 : 54 | | F1 : 55 | | F1 : 56 | | F1 : 57 | | F1 : 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | F1 : 01 | | F1 : 03 | | F1 : 04 | | F1 : 05 | | | | F1 : 07 | | F1 : 08 | | F1 : 09 | | F1 : 10 | | F1 : 11 | | F1 : 12 | | F1 : 13 | | F1 : 14 | | F1 : 15 | | F1 : 16 | | F1 : 17 | | F1 : 18 | | F1 : 19 | | F1 : 20 | | F1 : 21 | | F1 : 22 | | F1 : 23 | | F1 : 24 | | F1 : 25 | | F1 : 26 | | F1 : 27 | | F1 : 28 | | F1 : 29 | | F1 : 30 | | F1 : 31 | | F1 : 32 | | F1 : 33 | | F1 : 34 | | F1 : 35 | | F1 : 36 | | F1 : 37 | | F1 : 38 | | F1 : 39 | | F1 : 40 | | F1 : 41 | | F1 : 42 | | F1 : 43 | | F1 : 44 | | F1 : 45 | | F1 : 46 | | F1 : 47 | | F1 : 48 | | F1 : 49 | | F1 : 50 | | F1 : 51 | | F1 : 52 | | F1 : 53 | | F1 : 54 | | F1 : 55 | | F1 : 56 | | F1 : 57 | | F1 : 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REMOTE END DESIGNATION | | CABLE NO. AND NO. OF CORES | | TERMINAL STRIP X3 | |  | | F1 : R6 | | F1 : R5 | | F1 : R4 | | F1 : R3 | | F1 : R2 | | F1 : R1 | | F1 : R7 | | F1 : R8 | | F1 : R9 | | F1 : R10 | | F1 : R11 | | F1 : R12 | | F1 : R13 | | F1 : R14 | | F1 : R15 | | F1 : R16 | | F1 : R17 | | F1 : R18 | | F1 : R19 | | F1 : R20 | | F1 : R21 | | F1 : R22 | | F1 : R23 | | F1 : R24 | | F1 : R25 | | F1 : R26 | | F1 : R27 | | F1 : R28 | | F1 : R29 | | F1 : R30 | | F1 : R31 | | F1 : R32 | | F1 : R33 | | F1 : R34 | | F1 : R35 | | F1 : R36 | | F1 : R37 | | F1 : R38 | | F1 : R39 | | F1 : R40 | | F1 : R41 | | F1 : R42 | | F1 : R43 | | F1 : R44 | | F1 : R45 | | F1 : R46 | | F1 : R47 | | F1 : R48 | | F1 : R49 | | F1 : R50 | | F1 : R51 | | F1 : R52 | | F1 : R53 | | F1 : R54 | | F1 : R55 | | F1 : R56 | | F1 : R57 | | F1 : R58 | | F1 : R59 | | F1 : R60 | | F1 : R61 | | F1 : R62 | | F1 : R63 | | F1 : R64 | | F1 : R65 | | F1 : R66 | | F1 : R67 | | F1 : R68 | | F1 : R69 | | F1 : R70 | | F1 : R71 | | F1 : R72 | | F1 : R73 | | F1 : R74 | | F1 : R75 | | F1 : R76 | | F1 : R77 | | F1 : R78 | | F1 : R79 | | F1 : R80 | | F1 : R81 | | F1 : R82 | | F1 : R83 | | F1 : R84 | | F1 : R85 | | F1 : R86 | | F1 : R87 | | F1 : R88 | | F1 : R89 | | F1 : R90 | | F1 : R91 | | F1 : R92 | | F1 : R93 | | F1 : R94 | | F1 : R95 | | F1 : R96 | | F1 : R97 | | F1 : R98 | | F1 : R99 | | F1 : R100 | | F1 : R101 | | F1 : R102 | | F1 : R103 | | F1 : R104 | | F1 : R105 | | F1 : R106 | | F1 : R107 | | F1 : R108 | | F1 : R109 | | F1 : R110 | | F1 : R111 | | F1 : R112 | | F1 : R113 | | F1 : R114 | | F1 : R115 | | F1 : R116 | | F1 : R117 | | F1 : R118 | | F1 : R119 | | F1 : R120 | | F1 : R121 | | F1 : R122 | | F1 : R123 | | F1 : R124 | | F1 : R125 | | F1 : R126 | | F1 : R127 | | F1 : R128 | | F1 : R129 | | F1 : R130 | | F1 : R131 | | F1 : R132 | | F1 : R133 | | F1 : R134 | | F1 : R135 | | F1 : R136 | | F1 : R137 | | F1 : R138 | | F1 : R139 | | F1 : R140 | | F1 : R141 | | F1 : R142 | | F1 : R143 | | F1 : R144 | | F1 : R145 | | F1 : R146 | | F1 : R147 | | F1 : R148 | | F1 : R149 | | F1 : R150 | | F1 : R151 | | F1 : R152 | | F1 : R153 | | F1 : R154 | | F1 : R155 | | F1 : R156 | | F1 : R157 | | F1 : R158 | | F1 : R159 | | F1 : R160 | | F1 : R161 | | F1 : R162 | | F1 : R163 | | F1 : R164 | | F1 : R165 | | F1 : R166 | | F1 : R167 | | F1 : R168 | | F1 : R169 | | F1 : R170 | | F1 : R171 | | F1 : R172 | | F1 : R173 | | F1 : R174 | | F1 : R175 | | F1 : R176 | | F1 : R177 | | F1 : R178 | | F1 : R179 | | F1 : R180 | | F1 : R181 | | F1 : R182 | | F1 : R183 | | F1 : R184 | | F1 : R185 | | F1 : R186 | | F1 : R187 | | F1 : R188 | | F1 : R189 | | F1 : R190 | | F1 : R191 | | F1 : R192 | | F1 : R193 | | F1 : R194 | | F1 : R195 | | F1 : R196 | | F1 : R197 | | F1 : R198 | | F1 : R199 | | F1 : R200 | | F1 : R201 | | F1 : R202 | | F1 : R203 | | F1 : R204 | | F1 : R205 | | F1 : R206 | | F1 : R207 | | F1 : R208 | | F1 : R209 | | F1 : R210 | | F1 : R211 | | F1 : R212 | | F1 : R213 | | F1 : R214 | | F1 : R215 | | F1 : R216 | | F1 : R217 | | F1 : R218 | | F1 : R219 | | F1 : R220 | | F1 : R221 | | F1 : R222 | | F1 : R223 | | F1 : R224 | | F1 : R225 | | F1 : R226 | | F1 : R227 | | F1 : R228 | | F1 : R229 | | F1 : R230 | | F1 : R231 | | F1 : R232 | | F1 : R233 | | F1 : R234 | | F1 : R235 | | F1 : R236 | | F1 : R237 | | F1 : R238 | | F1 : R239 | | F1 : R240 | | F1 : R241 | | F1 : R242 | | F1 : R243 | | F1 : R244 | | F1 : R245 | | F1 : R246 | | F1 : R247 | |

[illegible]

