

ABNORMAL TEST RESULT

OF MODEL SCDA10000T-48

1. Did Cheese Cloth or Paper Glow?

No.

2. Did Ground Fuse Open?

No.

3. Dielectric breakdown?

No.

4. Other Results?

See the following pages .

(FMEA

: 2/37 ~ 37/37)

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|-------------------|--------------------|
| C105 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C106 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C111 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C112 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C113 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C114 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C115 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C116 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C117 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C118 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C119 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C120 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|-------------------|--------------------|
| C121 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C122 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C123 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C124 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C125 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C126 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C127 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C128 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C129 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C130 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C131 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C132 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|------------------------------|--------------------|
| C133 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C134 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C135 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C136 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C137 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C138 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C161 | Open | Normal operation. | 48V |
| | Short | R161 opened, No hazard. | 48V |
| C163 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C165 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C201 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C202 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C203 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|------------------------------|--------------------|
| C204 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C205 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C206 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C207 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C208 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C209 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C210 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C211 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C212 | Open | No hazard. Function failure. | 48V |
| | Short | Normal operation. | 48V |
| C213 | Open | No hazard. Function failure. | 48V |
| | Short | Normal operation. | 48V |
| C214 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C215 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|------------------------------|--------------------|
| C216 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C221 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| C222 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| C224 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C225 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| C226 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| C227 | Open | Normal operation. | 48V |
| | Short | R275 opened, No hazard. | 48V |
| C228 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C229 | Open | Normal operation. | 48V |
| | Short | Normal operation. | 48V |
| C301 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C302 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| C303 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|----|------------------------------|--------------------|
| C304 | Open | | Normal operation. | 48V |
| | Short | | No hazard. | 0V |
| C305 | Open | | Normal operation. | 48V |
| | Short | | No hazard. | 0V |
| C306 | Open | | Normal operation. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| C307 | Open | | Normal operation. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| C313 | Open | | Normal operation. | 48V |
| | Short | | No hazard. | 0V |
| C401 | Open | | Normal operation. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| C501 | Open | | Normal operation. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| C502 | Open | | Normal operation. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| C503 | Open | | Normal operation. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| C504 | Open | | Normal operation. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| CN1 | Open | 1A | No hazard. Function failure. | 48V |
| | | 1B | No hazard. Function failure. | 48V |
| | | 2A | No hazard. Function failure. | 48V |
| | | 2B | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|------------------------------|--------------------|
| CN1 | Open | 3A | No hazard. Function failure. | 48V |
| | | 3B | No hazard. Function failure. | 48V |
| | | 4A | No hazard. Function failure. | 48V |
| | | 4B | No hazard. Function failure. | 48V |
| | Short | 1A-1B | No hazard. Function failure. | 48V |
| | | 1A-2A | No hazard. Function failure. | 48V |
| | | 2A-3A | No hazard. Function failure. | 48V |
| | | 2A-2B | No hazard. Function failure. | 48V |
| | | 3A-4A | No hazard. Function failure. | 48V |
| | | 3A-3B | No hazard. Function failure. | 48V |
| | | 4A-4B | No hazard. Function failure. | 48V |
| | | 1B-2B | No hazard. Function failure. | 48V |
| | | 2B-3B | No hazard. Function failure. | 48V |
| | | 3B-4B | No hazard. Function failure. | 48V |
| CN2 | Open | 1A | No hazard. Function failure. | 48V |
| | | 1B | No hazard. Function failure. | 48V |
| | | 2A | No hazard. Function failure. | 48V |
| | | 2B | No hazard. Function failure. | 48V |
| | | 3A | No hazard. Function failure. | 48V |
| | | 3B | No hazard. Function failure. | 48V |
| | | 4A | No hazard. Function failure. | 48V |
| | | 4B | No hazard. Function failure. | 48V |
| | Short | 1A-1B | No hazard. Function failure. | 48V |
| | | 1A-2A | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|------------------------------|--------------------|
| CN2 | Short | 2A-3A | No hazard. Function failure. | 48V |
| | | 2A-2B | No hazard. Function failure. | 48V |
| | | 3A-4A | No hazard. Function failure. | 48V |
| | | 3A-3B | No hazard. Function failure. | 48V |
| | | 4A-4B | No hazard. Function failure. | 48V |
| | | 1B-2B | No hazard. Function failure. | 48V |
| | | 2B-3B | No hazard. Function failure. | 48V |
| | | 3B-4B | No hazard. Function failure. | 48V |
| CN3 | Open | 1A | No hazard. | 0V |
| | | 1B | No hazard. | 0V |
| | | 2A | No hazard. Function failure. | 48V |
| | | 2B | No hazard. Function failure. | 48V |
| | | 3A | No hazard. Function failure. | 48V |
| | | 3B | No hazard. Function failure. | 48V |
| | | 4A | No hazard. Function failure. | 48V |
| | | 4B | No hazard. Function failure. | 48V |
| | | 5A | No hazard. Function failure. | 48V |
| | | 5B | No hazard. Function failure. | 48V |
| | Short | 1A-1B | Normal operation. | 48V |
| | | 1A-2A | No hazard. Function failure. | 48V |
| | | 2A-3A | No hazard. Function failure. | 48V |
| | | 2A-2B | Normal operation. | 48V |
| | | 3A-4A | Normal operation. | 48V |
| | | 3A-3B | Normal operation. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|------------------------------|--------------------|
| CN3 | Short | 4A-4B | Normal operation. | 48V |
| | | 1B-2B | No hazard. Function failure. | 48V |
| | | 2B-3B | No hazard. Function failure. | 48V |
| | | 3B-4B | Normal operation. | 48V |
| | | 4A-5A | No hazard. | 0V |
| | | 5A-5B | Normal operation. | 48V |
| | | 4B-5B | No hazard. | 0V |
| CN4 | Open | 1A | No hazard. | 0V |
| | | 1B | No hazard. | 0V |
| | | 2A | No hazard. Function failure. | 48V |
| | | 2B | No hazard. Function failure. | 48V |
| | | 3A | No hazard. Function failure. | 48V |
| | | 3B | No hazard. Function failure. | 48V |
| | | 4A | No hazard. Function failure. | 48V |
| | | 4B | No hazard. Function failure. | 48V |
| | | 5A | No hazard. Function failure. | 48V |
| | | 5B | No hazard. Function failure. | 48V |
| | Short | 1A-1B | Normal operation. | 48V |
| | | 1A-2A | No hazard. Function failure. | 48V |
| | | 2A-3A | No hazard. Function failure. | 48V |
| | | 2A-2B | Normal operation. | 48V |
| | | 3A-4A | Normal operation. | 48V |
| | | 3A-3B | Normal operation. | 48V |
| | | 4A-4B | Normal operation. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|------------------------------|--------------------|
| CN4 | Short | 1B-2B | No hazard. Function failure. | 48V |
| | | 2B-3B | No hazard. Function failure. | 48V |
| | | 3B-4B | Normal operation. | 48V |
| | | 4A-5A | No hazard. | 0V |
| | | 5A-5B | Normal operation. | 48V |
| | | 4B-5B | No hazard. | 0V |
| CN5 | Open | 1A | No hazard. Function failure. | 48V |
| | | 1B | No hazard. Function failure. | 48V |
| | | 3A | No hazard. Function failure. | 48V |
| | | 3B | No hazard. Function failure. | 48V |
| | Short | 1A-1B | Normal operation. | 48V |
| | | 3A-3B | Normal operation. | 48V |
| CN6 | Open | 1A | No hazard. Function failure. | 48V |
| | | 1B | No hazard. Function failure. | 48V |
| | | 3A | No hazard. Function failure. | 48V |
| | | 3B | No hazard. Function failure. | 48V |
| | Short | 1A-1B | Normal operation. | 48V |
| | | 3A-3B | Normal operation. | 48V |
| CN7 | Open | 1A | No hazard. Function failure. | 48V |
| | | 1B | No hazard. Function failure. | 48V |
| | | 2A | No hazard. Function failure. | 48V |
| | | 2B | No hazard. Function failure. | 48V |
| | | 3A | No hazard. Function failure. | 48V |
| | | 3B | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|------------------------------|--------------------|
| CN7 | Short | 1A-1B | Normal operation. | 48V |
| | | 1A-2A | No hazard. Function failure. | 48V |
| | | 2A-3A | No hazard. Function failure. | 48V |
| | | 2A-2B | Normal operation. | 48V |
| | | 3A-3B | Normal operation. | 48V |
| | | 1B-2B | No hazard. Function failure. | 48V |
| | | 2B-3B | No hazard. Function failure. | 48V |
| CN8 | Open | 1A | No hazard. Function failure. | 48V |
| | | 1B | No hazard. Function failure. | 48V |
| | | 2A | No hazard. Function failure. | 48V |
| | | 2B | No hazard. Function failure. | 48V |
| | | 3A | No hazard. Function failure. | 48V |
| | | 3B | No hazard. Function failure. | 48V |
| | Short | 1A-1B | Normal operation. | 48V |
| | | 1A-2A | No hazard. Function failure. | 48V |
| | | 2A-3A | No hazard. Function failure. | 48V |
| | | 2A-2B | Normal operation. | 48V |
| | | 3A-3B | Normal operation. | 48V |
| | | 1B-2B | No hazard. Function failure. | 48V |
| | | 2B-3B | No hazard. Function failure. | 48V |
| CN11 | Open | | No hazard. | 0V |
| | Short | | No hazard. | 0V |
| CN12 | Open | | No hazard. | 0V |
| | Short | | No hazard. | 0V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|------------|--------------------|
| CN13 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN14 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN15 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN16 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN17 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN18 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN19 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN20 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN21 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN22 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN23 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |
| CN24 | Open | No hazard. | 0V |
| | Short | No hazard. | 0V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|------|------------------------------|--------------------|
| CN101 | Open | 1 | No hazard. Function failure. | 48V |
| | | 2 | No hazard. Function failure. | 48V |
| | | 3 | No hazard. Function failure. | 48V |
| | | 5 | No hazard. Function failure. | 48V |
| | Short | 1-2 | No hazard. | 0V |
| | | 2-3 | No hazard. | 0V |
| | | 3-5 | No hazard. | 0V |
| CN201 | Open | 1 | No hazard. Function failure. | 48V |
| | | 2 | No hazard. Function failure. | 48V |
| | | 3 | No hazard. Function failure. | 48V |
| | | 5 | No hazard. Function failure. | 48V |
| | Short | 1-2 | No hazard. | 0V |
| | | 2-3 | No hazard. | 0V |
| | | 3-5 | No hazard. | 0V |
| CN202 | Open | 2 | No hazard. | 0V |
| | | 3 | No hazard. Function failure. | 48V |
| | | 5 | No hazard. | 0V |
| | | 6 | Normal operation. | 48V |
| | | 9 | No hazard. | 0V |
| | | 10 | No hazard. | 0V |
| | Short | 3-5 | No hazard. | 0V |
| | | 5-6 | No hazard. | 0V |
| | | 9-10 | No hazard. Function failure. | 48V |
| CN203 | Open | 1 | No hazard. | 0V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|------------------------------|--------------------|
| CN203 | Open | 5 | No hazard. | 0V |
| | | 9 | No hazard. | 0V |
| | | 10 | No hazard. | 0V |
| | | 11 | No hazard. | 0V |
| | | 12 | No hazard. | 0V |
| | Short | 9-10 | No hazard. Function failure. | 48V |
| | | 9-11 | No hazard. | 0V |
| | | 10-12 | No hazard. | 0V |
| | | 11-12 | No hazard. Function failure. | 48V |
| CN204 | Open | 1 | No hazard. Function failure. | 48V |
| | | 2 | No hazard. Function failure. | 48V |
| | | 3 | No hazard. Function failure. | 48V |
| | | 4 | No hazard. Function failure. | 48V |
| | | 5 | No hazard. Function failure. | 48V |
| | Short | 1-2 | No hazard. Function failure. | 48V |
| | | 2-3 | No hazard. Function failure. | 48V |
| | | 3-4 | No hazard. Function failure. | 48V |
| | | 4-5 | No hazard. Function failure. | 48V |
| D111 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| D112 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| D113 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|------------------------------|--------------------|
| D114 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D115 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D116 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D117 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D118 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D119 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D120 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D121 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D122 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D123 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D124 | Open | No hazard. Function failure. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D201 | Open | No hazard. | 0V |
| | Short | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|------------------------------|--------------------|
| D202 | Open | TR208 shorted, No hazard. | 0V |
| | Short | No hazard. Function failure. | 48V |
| D205 | Open | No hazard. | 0V |
| | Short | No hazard. Function failure. | 48V |
| D206 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| D301 | Open | Normal operation. | 48V |
| | Short | No hazard. | 0V |
| D401 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D501 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D502 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D503 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| D504 | Open | Normal operation. | 48V |
| | Short | No hazard. Function failure. | 48V |
| F111 | Open | No hazard. | 0V |
| | Short | No hazard. Function failure. | 48V |
| F112 | Open | No hazard. | 0V |
| | Short | No hazard. Function failure. | 48V |
| F113 | Open | No hazard. | 0V |
| | Short | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|---|------------------------------|--------------------|
| F114 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F115 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F116 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F117 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F118 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F119 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F120 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F121 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F122 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F123 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| F124 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| IC201 | Open | K | No hazard. | 0V |
| | | A | No hazard. | 0V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|--------------------------------------|--------------------|
| IC201 | Open | R | No hazard. | 0V |
| | Short | A-K | No hazard. | 0V |
| | | K-R | No hazard. | 0V |
| | | R-A | No hazard. | 0V |
| IC202 | Open | 1 | No hazard. | 0V |
| | | 2 | No hazard. | 0V |
| | | 3 | No hazard. | 0V |
| | | 4 | No hazard. | 0V |
| | | 5 | No hazard. | 0V |
| | | 6 | No hazard. | 0V |
| | | 7 | No hazard. | 0V |
| | | 8 | No hazard. | 0V |
| | Short | 1-2 | Normal operation. | 48V |
| | | 2-3 | Normal operation. | 48V |
| | | 3-4 | No hazard. | 0V |
| | | 5-6 | No hazard. | 0V |
| | | 6-7 | Output voltage decreased. No hazard. | decreased |
| | | 7-8 | No hazard. | 0V |
| IC203 | Open | 1 | No hazard. Function failure. | 48V |
| | | 2 | No hazard. Function failure. | 48V |
| | | 3 | No hazard. Function failure. | 48V |
| | | 4 | No hazard. Function failure. | 48V |
| | | 5 | No hazard. Function failure. | 48V |
| | | 6 | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|--------------------------------------|--------------------|
| IC203 | Open | 7 | No hazard. Function failure. | 48V |
| | | 8 | No hazard. Function failure. | 48V |
| | Short | 1-2 | No hazard. Function failure. | 48V |
| | | 2-3 | No hazard. Function failure. | 48V |
| | | 3-4 | No hazard. Function failure. | 48V |
| | | 5-6 | No hazard. Function failure. | 48V |
| | | 6-7 | No hazard. Function failure. | 48V |
| | | 7-8 | No hazard. Function failure. | 48V |
| IC204 | Open | 1 | No hazard. | 0V |
| | | 2 | No hazard. | 0V |
| | | 3 | No hazard. | 0V |
| | | 4 | No hazard. | 0V |
| | | 5 | Normal operation. | 48V |
| | | 6 | Normal operation. | 48V |
| | | 7 | Normal operation. | 48V |
| | | 8 | No hazard. | 0V |
| | Short | 1-2 | Output voltage decreased. No hazard. | decreased |
| | | 2-3 | No hazard. | 0V |
| | | 3-4 | No hazard. | 0V |
| | | 5-6 | Normal operation. | 48V |
| | | 6-7 | Normal operation. | 48V |
| | | 7-8 | No hazard. | 0V |
| IC301 | Open | 1 | No hazard. | 0V |
| | | 2 | No hazard. | 0V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|------------------------------|--------------------|
| IC301 | Open | 3 | No hazard. | 0V |
| | | | | |
| | Short | 1-2 | No hazard. | 0V |
| | | 2-3 | No hazard. | 0V |
| | | 3-1 | No hazard. | 0V |
| IC313 | Open | 1 | No hazard. | 0V |
| | | 2 | Normal operation. | 48V |
| | | 3 | Normal operation. | 48V |
| | | 4 | No hazard. | 0V |
| | | 5 | No hazard. | 0V |
| | | 6 | No hazard. Function failure. | 48V |
| | | 7 | No hazard. Function failure. | 48V |
| | | 8 | No hazard. Function failure. | 48V |
| | | 9 | No hazard. | 0V |
| | | 10 | No hazard. Function failure. | 48V |
| | | 11 | No hazard. Function failure. | 48V |
| | | 12 | No hazard. Function failure. | 48V |
| | | 13 | No hazard. Function failure. | 48V |
| | | 14 | No hazard. Function failure. | 48V |
| | | 15 | No hazard. Function failure. | 48V |
| | | 16 | Normal operation. | 48V |
| | | 17 | No hazard. | 0V |
| | | 18 | No hazard. | 0V |
| | | 19 | No hazard. Function failure. | 48V |
| | | 20 | No hazard. | 0V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|------------------------------|--------------------|
| IC313 | Short | 1-2 | No hazard. Function failure. | 48V |
| | | 2-3 | No hazard. Function failure. | 48V |
| | | 3-4 | No hazard. Function failure. | 48V |
| | | 4-5 | No hazard. Function failure. | 48V |
| | | 5-6 | No hazard. Function failure. | 48V |
| | | 6-7 | Normal operation. | 48V |
| | | 7-8 | Normal operation. | 48V |
| | | 8-9 | No hazard. | 0V |
| | | 9-10 | No hazard. Function failure. | 48V |
| | | 11-12 | No hazard. Function failure. | 48V |
| | | 12-13 | No hazard. Function failure. | 48V |
| | | 13-14 | No hazard. Function failure. | 48V |
| | | 14-15 | No hazard. Function failure. | 48V |
| | | 15-16 | No hazard. Function failure. | 48V |
| | | 16-17 | No hazard. | 0V |
| | | 17-18 | No hazard. | 0V |
| | | 18-19 | No hazard. Function failure. | 48V |
| | | 19-20 | No hazard. Function failure. | 48V |
| LED201 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| LED202 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| LED301 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|------|------------------------------|--------------------|
| LED302 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| LED303 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| LED304 | Open | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| PC201 | Open | A, K | No hazard. | 0V |
| | | C, E | No hazard. | 0V |
| | Short | A-K | No hazard. | 0V |
| | | C-E | No hazard. Function failure. | 48V |
| PC202 | Open | A, K | No hazard. | 0V |
| | | C, E | No hazard. | 0V |
| | Short | A-K | No hazard. | 0V |
| | | C-E | No hazard. Function failure. | 48V |
| PC301 | Open | A, K | No hazard. Function failure. | 48V |
| | | D, S | No hazard. Function failure. | 48V |
| | Short | A-K | No hazard. Function failure. | 48V |
| | | D-S | No hazard. Function failure. | 48V |
| PC302 | Open | A, K | No hazard. Function failure. | 48V |
| | | D, S | No hazard. Function failure. | 48V |
| | Short | A-K | No hazard. Function failure. | 48V |
| | | D-S | No hazard. Function failure. | 48V |
| PC303 | Open | A, K | No hazard. Function failure. | 48V |
| | | D, S | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|------|------------------------------|--------------------|
| PC303 | Short | A-K | No hazard. Function failure. | 48V |
| | | D-S | No hazard. Function failure. | 48V |
| PC304 | Open | A, K | No hazard. Function failure. | 48V |
| | | D, S | No hazard. Function failure. | 48V |
| | Short | A-K | No hazard. Function failure. | 48V |
| | | D-S | No hazard. Function failure. | 48V |
| PC305 | Open | A, K | No hazard. Function failure. | 48V |
| | | D, S | No hazard. Function failure. | 48V |
| | Short | A-K | No hazard. Function failure. | 48V |
| | | D-S | No hazard. Function failure. | 48V |
| PC306 | Open | A, K | No hazard. Function failure. | 48V |
| | | D, D | No hazard. Function failure. | 48V |
| | Short | A-K | No hazard. Function failure. | 48V |
| | | D-D | No hazard. Function failure. | 48V |
| PTH111 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH112 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH113 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH114 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH115 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|------------------------------|--------------------|
| PTH116 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH117 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH118 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH119 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH120 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH121 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH122 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH123 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| PTH124 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| TR161 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| | | | | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|------------------------------|--------------------|
| TR162 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| TR201 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| TR202 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| TR203 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|------------------------------|--------------------|
| TR204 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| TR205 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. | 0V |
| | | B-C | No hazard. Function failure. | 48V |
| TR206 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | Normal operation. | 48V |
| | | E-B | Normal operation. | 48V |
| | | B-C | Normal operation. | 48V |
| TR207 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. | 0V |
| | | B-C | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|------------------------------|--------------------|
| TR208 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| TR209 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| TR210 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. | 0V |
| | | B-C | No hazard. Function failure. | 48V |
| TR211 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. | 0V |
| | | B-C | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|------------------------------|--------------------|
| TR302 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| TR303 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. | 0V |
| | | B-C | No hazard. Function failure. | 48V |
| TR304 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. | 0V |
| | | B-C | No hazard. Function failure. | 48V |
| TR305 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|------------------------------|--------------------|
| TR306 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. | 0V |
| | | B-C | No hazard. Function failure. | 48V |
| TR307 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. Function failure. | 48V |
| TR308 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. Function failure. | 48V |
| TR309 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|------------------------------|--------------------|
| TR310 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. Function failure. | 48V |
| TR311 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. Function failure. | 48V |
| TR312 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. Function failure. | 48V |
| TR313 | Open | C | No hazard. | 0V |
| | | E | No hazard. | 0V |
| | | B | No hazard. | 0V |
| | Short | C-E | No hazard. Function failure. | 48V |
| | | E-B | No hazard. | 0V |
| | | B-C | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|--------------------------------------|--------------------|
| TR314 | Open | C | No hazard. Function failure. | 48V |
| | | E | No hazard. Function failure. | 48V |
| | | B | No hazard. Function failure. | 48V |
| | Short | C-E | No hazard. | 0V |
| | | E-B | No hazard. Function failure. | 48V |
| | | B-C | No hazard. | 0V |
| VR201 | Open | brush | Output voltage decreased. No hazard. | decreased |
| | | | No hazard. | 0V |
| | Short | | Output voltage rose. No hazard. | 53V max |
| VR202 | Open | brush | No hazard. Function failure. | 48V |
| | | | No hazard. Function failure. | 48V |
| | Short | | No hazard. Function failure. | 48V |
| VR203 | Open | brush | Output voltage decreased. No hazard. | decreased |
| | | | Output voltage decreased. No hazard. | decreased |
| | Short | | Output voltage rose. No hazard. | 53V max |
| VR204 | Open | brush | Output voltage rose. No hazard. | 50V max |
| | | | No hazard. | 0V |
| | Short | | Output voltage decreased. No hazard. | decreased |
| ZD202 | Open | | No hazard. | 0V |
| | Short | | No hazard. | 0V |
| ZD203 | Open | | No hazard. | 0V |
| | Short | | No hazard. Function failure. | 48V |
| ZD204 | Open | | Normal operation. | 48V |
| | Short | | No hazard. Function failure. | 48V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|------|------------------------------|--------------------|
| R111 | Open | No hazard. Function failure. | 48V |
| R112 | Open | No hazard. Function failure. | 48V |
| R113 | Open | No hazard. Function failure. | 48V |
| R114 | Open | No hazard. Function failure. | 48V |
| R115 | Open | No hazard. Function failure. | 48V |
| R116 | Open | No hazard. Function failure. | 48V |
| R117 | Open | No hazard. Function failure. | 48V |
| R118 | Open | No hazard. Function failure. | 48V |
| R119 | Open | No hazard. Function failure. | 48V |
| R120 | Open | No hazard. Function failure. | 48V |
| R121 | Open | No hazard. Function failure. | 48V |
| R122 | Open | No hazard. Function failure. | 48V |
| R123 | Open | No hazard. Function failure. | 48V |
| R124 | Open | No hazard. Function failure. | 48V |
| R161 | Open | No hazard. Function failure. | 48V |
| R162 | Open | Normal operation. | 48V |
| R163 | Open | No hazard. | 0V |
| R164 | Open | No hazard. Function failure. | 48V |
| R201 | Open | No hazard. | 0V |
| R202 | Open | No hazard. | 0V |
| R203 | Open | No hazard. | 0V |
| R204 | Open | No hazard. | 0V |
| R205 | Open | Normal operation. | 48V |
| R206 | Open | No hazard. | 0V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|------|--------------------------------------|--------------------|
| R207 | Open | No hazard. Function failure. | 48V |
| R208 | Open | Output voltage rose. No hazard. | 53V max |
| R209 | Open | No hazard. | 0V |
| R210 | Open | No hazard. Function failure. | 48V |
| R211 | Open | No hazard. Function failure. | 48V |
| R212 | Open | No hazard. Function failure. | 48V |
| R213 | Open | No hazard. Function failure. | 48V |
| R214 | Open | No hazard. Function failure. | 48V |
| R215 | Open | No hazard. Function failure. | 48V |
| R216 | Open | No hazard. Function failure. | 48V |
| R217 | Open | No hazard. Function failure. | 48V |
| R218 | Open | No hazard. | 0V |
| R219 | Open | Output voltage decreased. No hazard. | decreased |
| R220 | Open | No hazard. | 0V |
| R221 | Open | No hazard. | 0V |
| R222 | Open | No hazard. Function failure. | 48V |
| R223 | Open | Output voltage decreased. No hazard. | decreased |
| R224 | Open | No hazard. Function failure. | 48V |
| R225 | Open | No hazard. Function failure. | 48V |
| R226 | Open | Normal operation. | 48V |
| R227 | Open | No hazard. Function failure. | 48V |
| R228 | Open | No hazard. Function failure. | 48V |
| R229 | Open | Normal operation. | 48V |
| R230 | Open | Normal operation. | 48V |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|------|------------------------------|--------------------|
| R231 | Open | No hazard. Function failure. | 48V |
| R232 | Open | No hazard. Function failure. | 48V |
| R233 | Open | No hazard. | 0V |
| R234 | Open | Normal operation. | 48V |
| R235 | Open | No hazard. Function failure. | 48V |
| R236 | Open | Normal operation. | 48V |
| R238 | Open | Normal operation. | 48V |
| R239 | Open | No hazard. | 0V |
| R240 | Open | Normal operation. | 48V |
| R241 | Open | Normal operation. | 48V |
| R242 | Open | No hazard. | 0V |
| R243 | Open | No hazard. | 0V |
| R244 | Open | No hazard. Function failure. | 48V |
| R245 | Open | Normal operation. | 48V |
| R246 | Open | Normal operation. | 48V |
| R247 | Open | Normal operation. | 48V |
| R251 | Open | No hazard. | 0V |
| R252 | Open | No hazard. Function failure. | 48V |
| R253 | Open | No hazard. Function failure. | 48V |
| R254 | Open | Normal operation. | 48V |
| R255 | Open | Normal operation. | 48V |
| R256 | Open | Normal operation. | 48V |
| R257 | Open | No hazard. Function failure. | 48V |
| R258 | Open | Normal operation. | 48V |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|------------|------|-------|------------------------------|--------------------|
| R260 | Open | | Normal operation. | 48V |
| R274 | Open | | No hazard. Function failure. | 48V |
| R275 | Open | | Normal operation. | 48V |
| R301 | Open | | No hazard. | 0V |
| R302 | Open | | No hazard. | 0V |
| R303 | Open | | No hazard. Function failure. | 48V |
| R304 | Open | | No hazard. | 0V |
| R305 | Open | | No hazard. Function failure. | 48V |
| R306 | Open | | No hazard. Function failure. | 48V |
| R307 | Open | | No hazard. Function failure. | 48V |
| R308 | Open | | No hazard. Function failure. | 48V |
| R309 | Open | | No hazard. Function failure. | 48V |
| R311 | Open | | No hazard. Function failure. | 48V |
| R312 | Open | | No hazard. Function failure. | 48V |
| R313 | Open | | No hazard. Function failure. | 48V |
| R314 | Open | | No hazard. Function failure. | 48V |
| R315 | Open | | No hazard. Function failure. | 48V |
| R316 | Open | | No hazard. Function failure. | 48V |
| R317 | Open | | No hazard. | 0V |
| R322 | Open | | No hazard. Function failure. | 48V |
| SCD103-HA1 | Open | Red | No hazard. | 0V |
| | | White | No hazard. | 0V |
| | | Blue | No hazard. | 0V |
| SCD103-HA2 | Open | Red | No hazard. | 0V |



F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|------------|------|-------|------------|--------------------|
| SCD103-HA2 | Open | White | No hazard. | 0V |
| | | Blue | No hazard. | 0V |