NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. THE ONELINE DIAGRAM PROVIDES AN OVERVIEW OF THE POWER STAGE OF THE TYPICAL STS AND IS NOT REPRESENTATIVE OF ITS PHYSICAL LAYOUT. REFER TO THE OUTLINE DIAGRAM FOR DETAILS.
4. THE STS IS DESIGNED FOR CONNECTION TO 480VAC 3Ø, 3W SOLIDLY GROUNDED SOURCES ONLY. CONTACT ABB IF OTHER.
5. UPSTREAM OVERCURRENT PROTECTION IS REQUIRED. REFER TO TABLE 1.1 FOR RECOMMENDATIONS.
6. MAXIMUM RATED SHORT CIRCUIT CURRENT IS 100kA.

TABLE 1.1: OCPD RECOMMENDATIONS

<table>
<thead>
<tr>
<th>STS AMPERES</th>
<th>MAXIMUM AVAILABLE FAULT CURRENT (RMS SYMMETRICAL)</th>
<th>MAKE</th>
<th>MODEL</th>
<th>RATING</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000A</td>
<td>69A @ 480VAC</td>
<td>ABB</td>
<td>EMAX2 E4.2 S-A</td>
<td>3000A, 600V</td>
<td>3P ACB</td>
</tr>
<tr>
<td>1000A</td>
<td>109A @ 480VAC</td>
<td>ABB</td>
<td>EMAX2 E4.2 V-A</td>
<td>3000A, 600V</td>
<td>3P ACB</td>
</tr>
<tr>
<td>4000A</td>
<td>109A @ 480VAC</td>
<td>ABB</td>
<td>EMAX2 E5.2 V-A</td>
<td>4000A, 600V</td>
<td>3P ACB</td>
</tr>
</tbody>
</table>

LEGEND:
- AC SWITCH
- DISCONNECT SWITCH
- SPD (MOV)
- INTERLOCK, INTERLOCK KEY REMOVED
- POWER
- INTERLOCK
- CONTROL
- TERMINAL
- Fuse
- CURRENT SENSING
- VOLTAGE SENSING

ONELINE DIAGRAM:
SS4 3000/4000A, 480V, POWER STAGE

Prepared: T. Kendzia
Drawing No.: 94-7300-00000193
Date: 04/23/2020

Approved: C. Belcastro
Division/Dept.: Power Solutions
Document Kind: Circuit Diagram
NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES.

2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

3. ALL CUSTOMER WIRING TO THE USER INTERFACE BOARD (UIB) SHALL BE CONSIDERED FIELD WIRING AND CONSTRUCTED OF COPPER CONDUCTORS ONLY.

4. THE FIELD WIRING CONNECTION TO J9 OF THE UIB, FOR ETHERNET / MODBUS TCP COMMUNICATIONS SHALL BE MADE USING CAT 5 CABLING.

5. ALL OTHER FIELD WIRING CONNECTIONS ARE MADE VIA PLUGGABLE SCREW TERMINALS, RATED FOR SOLID OR STRANDED WIRING SIZED #12 TO #22AWG.

6. ALL UIB OUTPUTS ARE SPDT RELAYS EQUIPPED WITH DRY FORM C CONTACTS RATED FOR 250VAC 5A, 120VAC 10A, AND 30VDC 8A RESISTIVE LOADS MAX. SEE USER MANUAL FOR DETAILS.

7. ALL UIB INPUTS ARE CONFIGURED FOR N.O. CONTACTS. SEE USER MANUAL FOR DETAILS.