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Designation for 6U, 1/2x19" casing with 1 TRM

<table>
<thead>
<tr>
<th>Module</th>
<th>Slot</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM</td>
<td>pCOM</td>
<td>X0, X1, X8, X9, X304</td>
</tr>
<tr>
<td>PSM</td>
<td>pPSM</td>
<td>X307, X309, X410</td>
</tr>
<tr>
<td>TRM</td>
<td>p2</td>
<td>X101, X102</td>
</tr>
<tr>
<td>BIO</td>
<td>p3</td>
<td>X321, X324</td>
</tr>
<tr>
<td>BIO</td>
<td>p4</td>
<td>X326, X329</td>
</tr>
<tr>
<td>BIO</td>
<td>p5</td>
<td>X331, X334</td>
</tr>
<tr>
<td>BIO</td>
<td>p6</td>
<td>X336, X339</td>
</tr>
</tbody>
</table>
Designation for 3U, 1/1x19" casing with 1 TRM

<table>
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<tr>
<th>Module</th>
<th>Slot</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM</td>
<td>pCOM</td>
<td>X0, X1, X8, X9, X304</td>
</tr>
<tr>
<td>TRM</td>
<td>p2</td>
<td>X101, X102</td>
</tr>
<tr>
<td>PSM</td>
<td>pPSM</td>
<td>X317, X319, X420</td>
</tr>
<tr>
<td>BIO</td>
<td>p3</td>
<td>X321, X324</td>
</tr>
<tr>
<td>BIO</td>
<td>p4</td>
<td>X326, X329</td>
</tr>
<tr>
<td>BIO</td>
<td>p5</td>
<td>X331, X334</td>
</tr>
<tr>
<td>BIO</td>
<td>p6</td>
<td>X336, X339</td>
</tr>
</tbody>
</table>

p = Position

Rear view slot

<table>
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<tr>
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<tbody>
<tr>
<td>pPSM</td>
</tr>
<tr>
<td>p2</td>
</tr>
<tr>
<td>pCOM</td>
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</table>

Rear view terminal

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<tr>
<td>X0, X1, X8, X9, X304</td>
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<td>X101, X102</td>
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<td>X317, X319, X420</td>
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<td>X321, X324</td>
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<td>X326, X329</td>
</tr>
<tr>
<td>X331, X334</td>
</tr>
<tr>
<td>X336, X339</td>
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Communication module (COM)

Ethernet, RJ45 connection
only for LHMI and PC-tools

Ethernet, LC optical

RS485_GND
RS485_RX
RS485_TX
RS485_SIG_GND
RS485_GND
RS485_RX
RS485_TX
RS485_SIG_GND
IRIG-B
IRIG-B_GND

Optical serial port, ST connector

Rx/Tx

Com: LHMI

Bi01 Bi02 Bi03 Bi04 Bi05 Bi06 Bi07 Bi08 Bi09 Bi10 Bi11 Bi12

Observe polarity sequence
Power supply module 48–125 VDC (PSM)

Configuration plant adopted

Configuration plant adapted

T1, BRK1 TRIP
T2, BRK1 TRIP
T3, SPARE
T4, BRK1 CLDMD
T5, BRK1 CLDMD
T6, GENERAL ALARM
S1, 189 CLD CLOSE CMD
S2, 189 CLOSE CMD
S3, PROT TRIP

Auxiliary supply EL
Protective earth
Normal
Fault

Observe polarity sequence

Rock casing =XA =XB =XC
6U, 1/2 x 19" X307 X410 X309
3U, 1/1 x 19" X317 X420 X319
Power supply module 110–250 VDC, 100–240 VAC (PSM)

Configuration: plant adapted

T1: BRK1_TRIP
T2: BRK1_TRIP
T3: SPARE
T4: BK1_CL_DMD
T5: BK1_CL_DMD
T6: GENERAL_ALARM
S1: 189_ClOSE_CMDO
S2: 189_ClOSE_CMDO
S3: PROT_TRIP

Auxiliary supply EL
Protective earth
Normal
Fail

Observe polarity sequence

Rock casing =XA =XB =XC
6U, 1/2x19" X307 X410 X309
3U, 1/1x19" X317 X420 X319

Prepared 2011-08-23
Aslem Rydh
Approved 2011-11-24
Patrick Nyback

Title: Connection Diagram
RC550 (3Ph/103A) A01A
 ANSI symbols

Doc. No.: 1MRK006502-DC

ABB AB
Transformer module (TRM)

- X101 CT/VT CONFIG=4I+1I+5U
- LINE_CT_PH_A(1) A/01 1/5A
- LINE_CT_PH_B(2) A/02 1/5A
- LINE_CT_PH_C(3) A/03 1/5A
- SPARE(4) A/04 1/5A
- SPARE(5) A/05 0.1/0.5A
- X102
- LINE_VA(6) A/06 100–220V
- LINE_VB(7) A/07 100–220V
- LINE_VC(8) A/08 100–220V
- SYNC1_VT(9) A/09 100–220V
- SPARE(10) A/10 100–220V

Compression or ringlug terminals

- Indicates polarity mark. Note that internal polarity can be adjusted by setting of analog input CT neutral direction and or on Smai pre-processing function blocks.
Binary input/output module (BIO)

Observe polarity sequence
Binary input/output module (BIO)

Observe polarity sequence
Binary input/output module (BIO)

Observe polarity sequence

Configuration plant adapted

Cl 98.99.OPEN_CMD
C2 98.99.SPARE
C3 98.99.CLOSE_CMD
S1 98.99.CLOSE_CAT
S2 98.99.CLOSE_CAT
S3 98.99.CLOSE_OK
S4 98.99.SPARE
S5 98.99.SPARE
S6 98.99.SPARE

X334 79_EXT RI
X335 79_EXT RI

BIO1 B02 B03 B04 B05 B06 B07 B08 B09