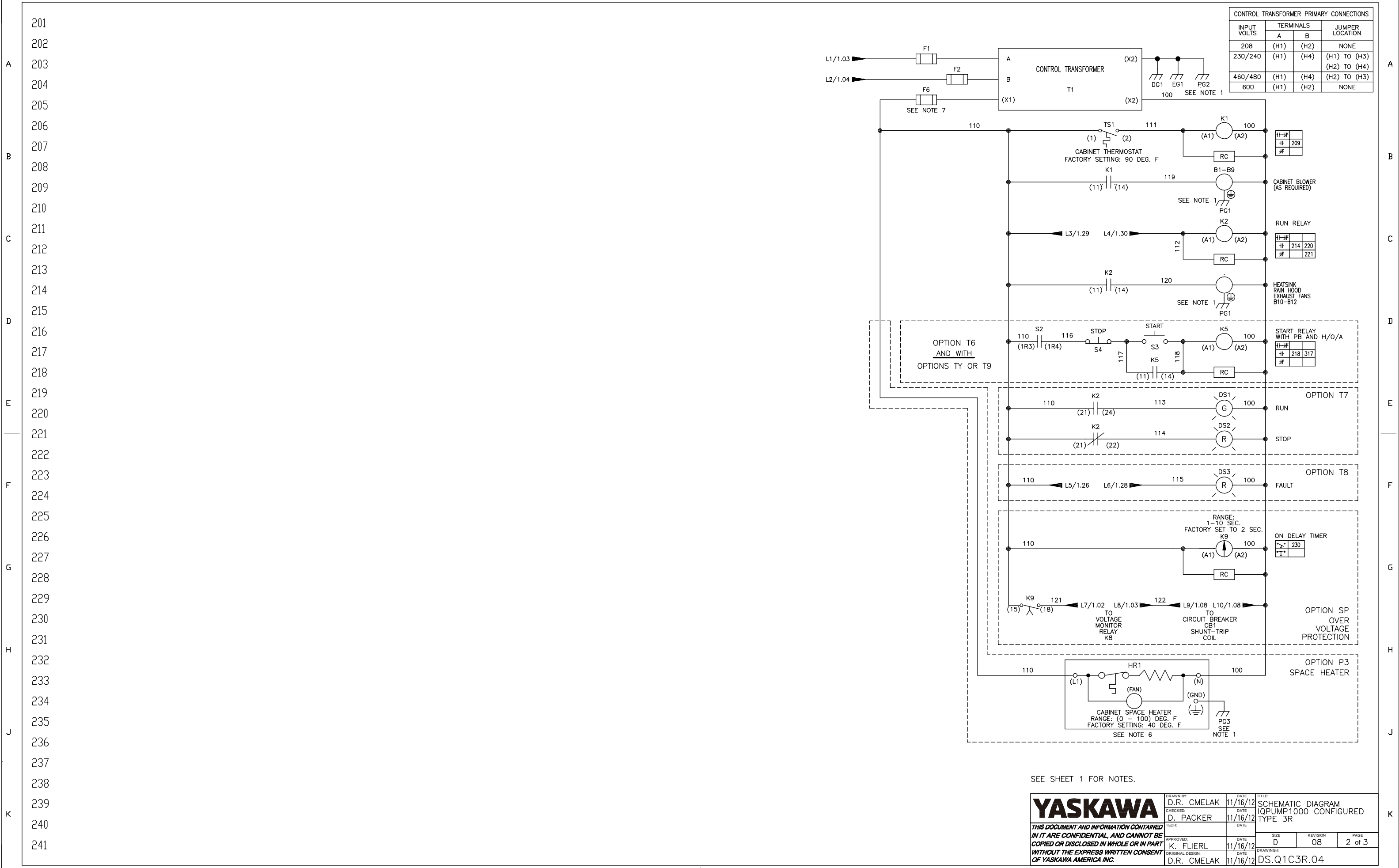


- NOTES:
- CONNECTED TO THE CABINET. CUSTOMER TO CONNECT THE CABINET GROUND LUGS TO EARTH GROUND AND UTILITY GROUND.
 - CONDUIT FITTINGS/HUBS SHALL COMPLY WITH THE 'STANDARD FOR CONDUIT, TUBING, AND CABLE FITTINGS, UL 514B' OR CONDUIT FITTINGS HAVING THE SAME ENVIRONMENTAL RATING AS THE ENCLOSURE SHALL BE USED.
 - WITHOUT THE CIRCUIT BREAKER (OPTION PC OR PE), OR DISCONNECT SWITCH OPTION PD, THE DISCONNECT MEANS MUST BE SUPPLIED BY THE CUSTOMER.
 - BRANCH CIRCUIT PROTECTION TO BE SUPPLIED BY THE CUSTOMER WHEN NOTED ON THE CABINET DATA NAMEPLATE.
 - INSULATED TWISTED SHIELDED WIRE IS REQUIRED. SHIELD TO CONNECT TO PROPER TERMINALS AS SHOWN. CONNECT THE SHIELD ONLY AT THIS END. STUB AND ISOLATE THE OTHER END. DO NOT RUN THESE WIRES IN THE SAME CONDUIT AS THE AC POWER AND AC CONTROL WIRES. KEEP ALL WIRING UNDER 50m IN LENGTH.
 - CUSTOMER TO ADJUST THE THERMOSTAT ON THE SPACE HEATER HR1 FOR THE MINIMUM DESIRED TEMPERATURE INSIDE THE DRIVE CABINET. THIS SET TEMPERATURE IS NORMALLY SELECTED TO BE SLIGHTLY HIGHER THAN THE MINIMUM AMBIENT TEMPERATURE OF THE AIR SURROUNDING THE CABINET, AND IS THE TEMPERATURE AT WHICH THE SPACE HEATER HR1 WILL SHUT OFF.
 - FOR A CONTROL TRANSFORMER T1 POWER RATING OF 350VA OR GREATER, SECONDARY FUSE F6 IS ADDED.
 - IF AC MOTOR IS FURNISHED WITH A N.C. THERMAL SWITCH THEN SET DRIVE PARAMETER H1-08 TO 27. THIS WILL CAUSE THE DRIVE TO COAST TO STOP UPON AN AC MOTOR THERMAL FAULT. ALONG WITH THIS, ADD THE FOLLOWING CUSTOMER WIRING: WIRE THE N.C. THERMAL SWITCH BETWEEN DRIVE TERMINALS S8 AND SN, AS PER NOTE 5 ABOVE.
 - OPTIONS TD, TG, TH, TJ, TL, TQ OR TU CONTROL (SEE UDE00392 FOR MORE INFORMATION)
 - CUSTOMER TO REPLACE THE JUMPER WITH NORMALLY CLOSED SAFETY INTERLOCKS, IF APPLICABLE.

* - INDICATES COMPONENTS NOT SUPPLIED BY YASKAWA.
 - - INDICATES CUSTOMER WIRING.
 SEE DRAWING UDE00390 FOR CUSTOMER CONNECTION TABLES.
 SEE DRAWING UDE00392 FOR DRIVE PARAMETER SETTINGS.

| REVISIONS | | | | |
|-----------|--|-------|----------|----------|
| REV. | DESCRIPTION | ECO # | DRAWN BY | DATE |
| 08 | ADD OPTION P9 SURGE SUPPRESSOR | 8264 | RCR | 01/08/18 |
| 07 | DELETED WIRE NO'S 1L1 AND 1L2 TO F1 AND F2 | 7812 | NSL | 04/07/17 |
| 06 | ADD K5 TO HOA W/TB & SERIAL COMM'S | 7217 | MDK | 06/28/16 |

| | | | | |
|----------------|--|------------------------------|----------------|--|
| YASKAWA | | DRAWN BY: D.R. CMELAK | DATE: 11/16/12 | TITLE: SCHEMATIC DIAGRAM IQPUMP1000 CONFIGURED TYPE 3R |
| | | CHECKED: D. PACKER | DATE: 11/16/12 | |
| | | APPROVED: K. FLIERL | DATE: 11/16/12 | SIZE: D |
| | | ORIGINAL DESIGN: D.R. CMELAK | DATE: 11/16/12 | REVISION: 08 |
| | | | | PAGE: 1 of 3 |
| | | | | DRAWING#: DS.Q1C3R.04 |

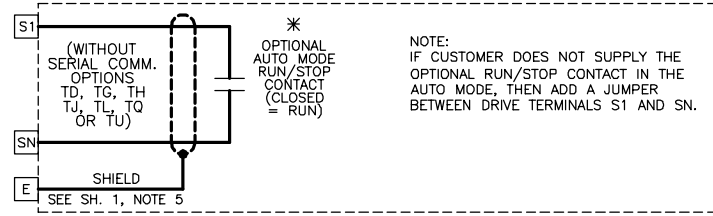


| INPUT VOLTS | TERMINALS | | JUMPER LOCATION |
|-------------|-----------|------|------------------------------|
| | A | B | |
| 208 | (H1) | (H2) | NONE |
| 230/240 | (H1) | (H4) | (H1) TO (H3) (H2) TO (H4) |
| 460/480 | (H1) | (H4) | (H2) TO (H3) |
| 600 | (H1) | (H2) | NONE |

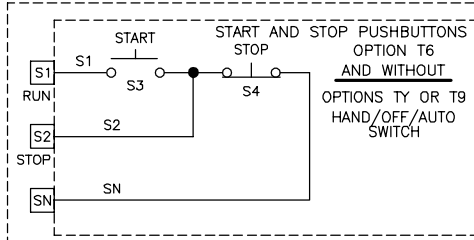
SEE SHEET 1 FOR NOTES.

| | | | | |
|---|--|-----------------------|----------------|--------------------------------|
| YASKAWA | | DRAWN BY: D.R. CMELAK | DATE: 11/16/12 | TITLE: SCHEMATIC DIAGRAM |
| | | CHECKED: D. PACKER | DATE: 11/16/12 | IQPLUMP1000 CONFIGURED TYPE 3R |
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| | | APPROVED: K. FLIERL | DATE: 11/16/12 | REVISION: 08 |
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| | | | | DS.Q1C3R.04 |

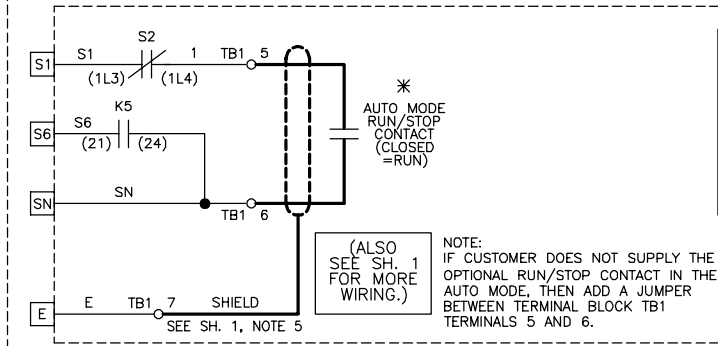
RUN/STOP CONTROL (FROM SHEET 1)



OR



OR

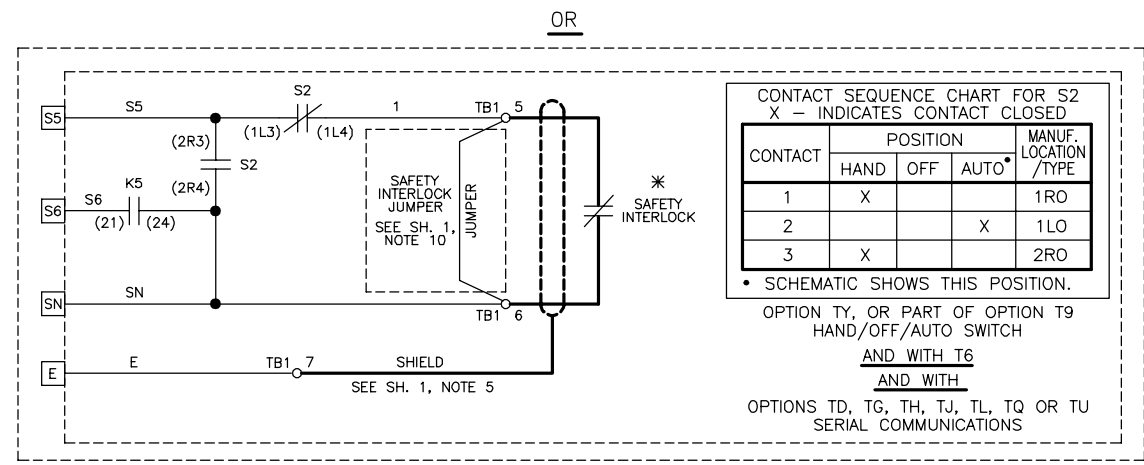


CONTACT SEQUENCE CHART FOR S2
X - INDICATES CONTACT CLOSED

| CONTACT | POSITION | | | MANUF. LOCATION /TYPE |
|---------|----------|-----|-------|-----------------------|
| | HAND | OFF | AUTO* | |
| 1 | X | | | 1RO |
| 2 | | | X | 1LO |

* SCHEMATIC SHOWS THIS POSITION.

OPTION T6
START AND STOP PUSHBUTTONS
AND WITH
OPTION T9, OR PART OF OPTION T9
HAND/OFF/AUTO SWITCH

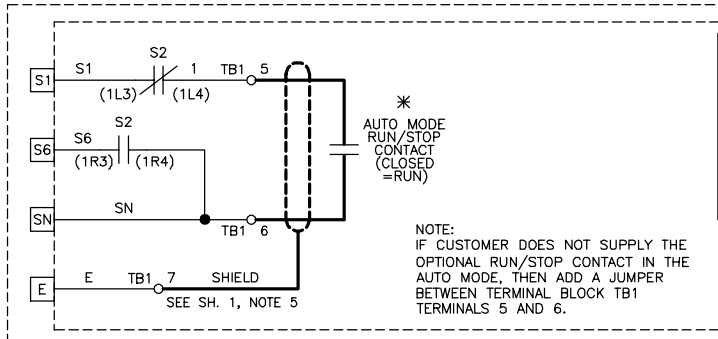


CONTACT SEQUENCE CHART FOR S2
X - INDICATES CONTACT CLOSED

| CONTACT | POSITION | | | MANUF. LOCATION /TYPE |
|---------|----------|-----|-------|-----------------------|
| | HAND | OFF | AUTO* | |
| 1 | X | | | 1RO |
| 2 | | | X | 1LO |
| 3 | X | | | 2RO |

* SCHEMATIC SHOWS THIS POSITION.

OPTION T9, OR PART OF OPTION T9
HAND/OFF/AUTO SWITCH
AND WITH T6
AND WITH
OPTIONS TD, TG, TH, TJ, TL, TQ OR TU
SERIAL COMMUNICATIONS

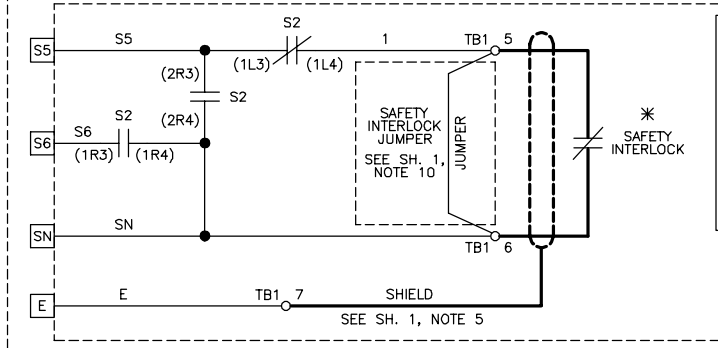


CONTACT SEQUENCE CHART FOR S2
X - INDICATES CONTACT CLOSED

| CONTACT | POSITION | | | MANUF. LOCATION /TYPE |
|---------|----------|-----|-------|-----------------------|
| | HAND | OFF | AUTO* | |
| 1 | X | | | 1RO |
| 2 | | | X | 1LO |

* SCHEMATIC SHOWS THIS POSITION.

OPTION T9, OR PART OF OPTION T9
HAND/OFF/AUTO SWITCH
AND WITHOUT
OPTIONS TD, TG, TH, TJ, TL, TQ OR TU
SERIAL COMMUNICATIONS



CONTACT SEQUENCE CHART FOR S2
X - INDICATES CONTACT CLOSED

| CONTACT | POSITION | | | MANUF. LOCATION /TYPE |
|---------|----------|-----|-------|-----------------------|
| | HAND | OFF | AUTO* | |
| 1 | X | | | 1RO |
| 2 | | | X | 1LO |
| 3 | X | | | 2RO |

* SCHEMATIC SHOWS THIS POSITION.

OPTION T9, OR PART OF OPTION T9
HAND/OFF/AUTO SWITCH
AND WITH
OPTIONS TD, TG, TH, TJ, TL, TQ OR TU
SERIAL COMMUNICATIONS

SEE SHEET 1 FOR NOTES.

YASKAWA

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| | | PAGE: 3 of 3 |

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