



**CONTROL TRANSFORMER PRIMARY CONNECTIONS**

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

WIRE #	WIRE #
107	107
108	108
109	109

**CONTACT SEQUENCE CHART FOR S2**  
X - INDICATES CONTACT CLOSED

CONTACT	POSITION		MANUF. LOCATION / TYPE
	HAND	AUTO	
1	X		1RO
2		X	1LO
3	X		2RO

\* SCHEMATIC SHOWS THIS POSITION.

**CONTACT SEQUENCE CHART FOR S2**  
X - INDICATES CONTACT CLOSED

CONTACT	POSITION		MANUF. LOCATION / TYPE
	HAND	AUTO	
1	X		1RO
2		X	1LO
3	X		2LO

\* SCHEMATIC SHOWS THIS POSITION.

- 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. 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 OR TQ CONTROL (SEE UDE00338 FOR MORE INFORMATION)



**REVISIONS**

REV.	DESCRIPTION	ECO #	DATE	DRAWN BY	DATE
04	UPDATE CUSTOMER CONNECTIONS TO BOLD LINES	6620	10/07/15	DJP	
03	ADDED FM, AM, MP TERMINALS TO DRIVE	6422	07/17/15	DJP	

**SCHEMATIC DIAGRAM**

DATE	DATE	DATE	DATE
9/4/12	9/4/12	9/4/12	9/4/12

**DESIGNED BY:** K. MALUSIC  
**CHECKED BY:** D.R. CMELAK  
**DATE:** 9/4/12  
**SCALE:** D  
**SIZE:** 04  
**REVISION #:** 1 of 1  
**DRAWING #:** DS-A1C3R.05

\* - INDICATES COMPONENTS NOT SUPPLIED BY YASKAWA.  
- - - INDICATES CUSTOMER WIRING.  
SEE DRAWING UDE00347 FOR CUSTOMER CONNECTION TABLES.  
SEE DRAWING UDE00338 FOR DRIVE PARAMETER SETTINGS.