



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

OPTION TY HAND-OFF-AUTO SWITCH
WITHOUT SERIAL COMM. OPTIONS TC, TD, TG, TH OR TQ
CONTACT SEQUENCE CHART FOR S2
X - INDICATES CONTACT CLOSED

| CONTACT | POSITION | | | MANUF. LOCATION /TYPE |
|---------|----------|-----|------|-----------------------|
| | HAND | OFF | AUTO | |
| 1 | X | | | 1R0 |
| 2 | | | X | 1L0 |
| 3 | X | | | 2R0 |

* SCHEMATIC SHOWS THIS POSITION.

OPTION TY HAND-OFF-AUTO SWITCH
WITH SERIAL COMM. OPTIONS TC, TD, TG, TH OR TQ
CONTACT SEQUENCE CHART FOR S2
X - INDICATES CONTACT CLOSED

| CONTACT | POSITION | | | MANUF. LOCATION /TYPE |
|---------|----------|-----|------|-----------------------|
| | HAND | OFF | AUTO | |
| 1 | X | | | 1R0 |
| 2 | | | X | 1L0 |
| 3 | | | X | 2L0 |

* 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, PE, OR PM), 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 F8 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 TC, TD, TG, TH OR TQ CONTROL (SEE UDE00583 FOR MORE INFORMATION)
 - DRIVE INPUT FUSES F3, F4, F5 ARE INCLUDED WITH OPTION PC, PE, OR PM FOR BASE NUMBERS B156 - B590.

DRY CONTACTS FOR CUSTOMER USE

RATED:
1A MAX., 250VAC
1A MAX., 30VDC

CUSTOMER MUST PROVIDE PROPER SHORT CIRCUIT PROTECTION AND MEANS OF DISCONNECT.

* - INDICATES COMPONENTS NOT SUPPLIED BY YASKAWA.
- - INDICATES CUSTOMER WIRING.
- - CONNECTED TO THE CABINET OR PANEL.

SEE DRAWING UDE00582 FOR CUSTOMER CONNECTION TABLES.
SEE DRAWING UDE00583 FOR DRIVE PARAMETER SETTINGS.

| REVISIONS | | | | |
|-----------|-----------------|-------|----------|----------|
| REV. | DESCRIPTION | ECO # | DRAWN BY | DATE |
| 00 | INITIAL RELEASE | - | NSL | 05/16/18 |

YASKAWA

| | | | |
|--------------------------|---------------------|---------------|---------------------------------------------------------------------|
| DRAWN BY: N. LAWS | CHECKED: K. MALUSIC | DATE: 5/16/18 | TITLE: SCHEMATIC DIAGRAM GA800 CONFIGURED HEAVY DUTY RATING TYPE 3R |
| APPROVED: K. FLIERL | DATE: 5/17/18 | DATE: 5/18/18 | DATE: 5/16/18 |
| ORIGINAL DESIGN: N. LAWS | DATE: 5/16/18 | DATE: 5/16/18 | DATE: 5/16/18 |

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