

INSTRUCTION SHEET D2-3249

Inverter Fuse Kit M/N 2FU5050 and 2FU4100

For Use With GP2000 50–100 HP and VTAC V 60–100 HP A-C V⁵S[®] Drives

DANGER

ONLY QUALIFIED ELECTRICAL PERSONNEL FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THIS EQUIPMENT AND THE HAZARDS INVOLVED SHOULD INSTALL, ADJUST, OPERATE, AND/OR SERVICE THIS EQUIPMENT. READ AND UNDERSTAND THIS MANUAL IN ITS ENTIRETY BEFORE PROCEEDING. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN SEVERE BODILY INJURY OR LOSS OF LIFE.

DESCRIPTION

The products described in this instruction sheet are manufactured and/or distributed by Reliance[®] Electric Industrial Company.

DANGER

THE NEC REQUIRES THAT UPSTREAM BRANCH CIRCUIT PROTECTION BE PROVIDED TO PROTECT POWER WIRING. THIS PROTECTION SHOULD BE INSTALLED BY THE USER IN ADDITION TO THE FUSED PROTECTION TO THE CONTROLLER PROVIDED BY THIS KIT. USE THE RECOMMENDED VALUES FOR INPUT FUSES IN ORDER TO PROTECT THE CONTROLLER. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN SEVERE BODILY INJURY OR LOSS OF LIFE.

The Inverter Fuse Kit provides protection for internal controller (or drive) components.

The Inverter Fuse Kit consists only of the three (3) fuses needed. The fuse block is prewired into the drive.

Note: This kit may have been installed in the controller at the factory.

RECEIVE AND ACCEPT THE SHIPMENT

Reliance Electric's terms of sale in all instances are F.O.B. point of origin. The user is responsible for thoroughly inspecting the equipment before accepting shipment from the transportation company.

If all the items called for on the bill of lading or on the express receipt are not included or if any items are obviously damaged, do not accept the shipment until the freight or express agent makes an appropriate notation on your freight bill or express receipt. If any concealed

loss or damage is discovered later, notify your freight or express agent within 15 days of receipt and request that he make an inspection of the shipment. Keep the entire shipment intact in its original shipping container.

The user is responsible for making claim against the carrier for any shortage or damage occurring in transit. Claims for loss or damage in shipment must not be deducted from the Reliance Electric invoice, nor should payment of the invoice be withheld while awaiting adjustment of such claims since the carrier guarantees safe delivery.

Upon receiving, check that the fuse ratings match the model number and controller rating according to Tables 1 and 2. Check that the contents of the kit are as listed in Table 3, Kit Parts List.

STORE THE KIT UNTIL INSTALLATION

After receipt inspection, repack the kit in its original shipping container until installation. If a period of storage is expected, store in the original shipping container with its internal packing.

To ensure satisfactory operation at startup and to maintain warranty coverage, store the equipment

- in its original shipping container in a clean, dry, safe place,
- within an ambient temperature range of -40°C to 65°C (-40°F to 149°F),
- within a relative humidity range of 5 to 95% without condensation,
- away from a highly corrosive atmosphere. In harsh environments, cover the shipping/storage container.

FILE A RETURN REQUEST

1. To return equipment, send a written request to Reliance Electric within ten days of receipt.
2. Do not return equipment without a numbered Equipment Return Authorization (ERA) from Reliance Electric.
3. Reliance Electric reserves the right to inspect the equipment on site.

The fuses in this kit can be applied to the following controllers listed in Table 1:

Table 1. M/N 2FU4100.

Voltage	GP2000 HP	VTAC V HP	Fuse Rating ⁽²⁾
208 VAC	25–40 HP ⁽¹⁾	25–40 HP	200 Amp
230 VAC	25–50 HP	30–50 HP	200 Amp
380 VAC	45,55 KW	45, 55 KW	200 Amp
415 VAC	45,55 KW	45, 55,75 KW	200 Amp
460 VAC	50–100 HP	60–100 HP	200 Amp
575 VAC	60–100 HP ⁽¹⁾	60–100 HP	200 Amp

(1) See M/N 2FU5050 for 50 HP @ 575 VAC and 20 HP @ 208 VAC.

(2) Fuses are 600 volt, Type LPJ, Class J rating.

Table 2. M/N 2FU5050.

Voltage	GP2000 HP	VTAC V HP	Fuse Rating ⁽¹⁾
208 VAC	20 HP	N/A	150 Amp
575 VAC	50 HP	N/A	150 Amp

(1) Fuses are 600 volt, Type LPJ, Class J rating.

Table 3. Kit Parts List.

Model No. 2FU4100		
Item	Part No.	Quantity
Fuse, 200A	64876-75BC	3

Model No. 2FU5050		
Item	Part No.	Quantity
Fuse, 150A	64876-75AZ	3

INSTALLATION

DANGER

DO NOT INSTALL MODIFICATION KITS WITH POWER APPLIED TO THE UNIT. DISCONNECT AND LOCK OUT INCOMING POWER BEFORE ATTEMPTING SUCH INSTALLATION. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN SEVERE BODILY INJURY OR LOSS OF LIFE.

Refer to Figure 1 for a connection diagram.

1. Disconnect all power to the controller before installing this kit.
2. Loosen the two (2) captive screws and open the hinged cabinet door.
3. Remove the three (3) fuse block bus bars from the existing fuse block as shown in Figure 2.
4. Insert fuses into fuse holders.
5. Close the cabinet door and tighten the captive screws.
6. Discard removed bus bars.

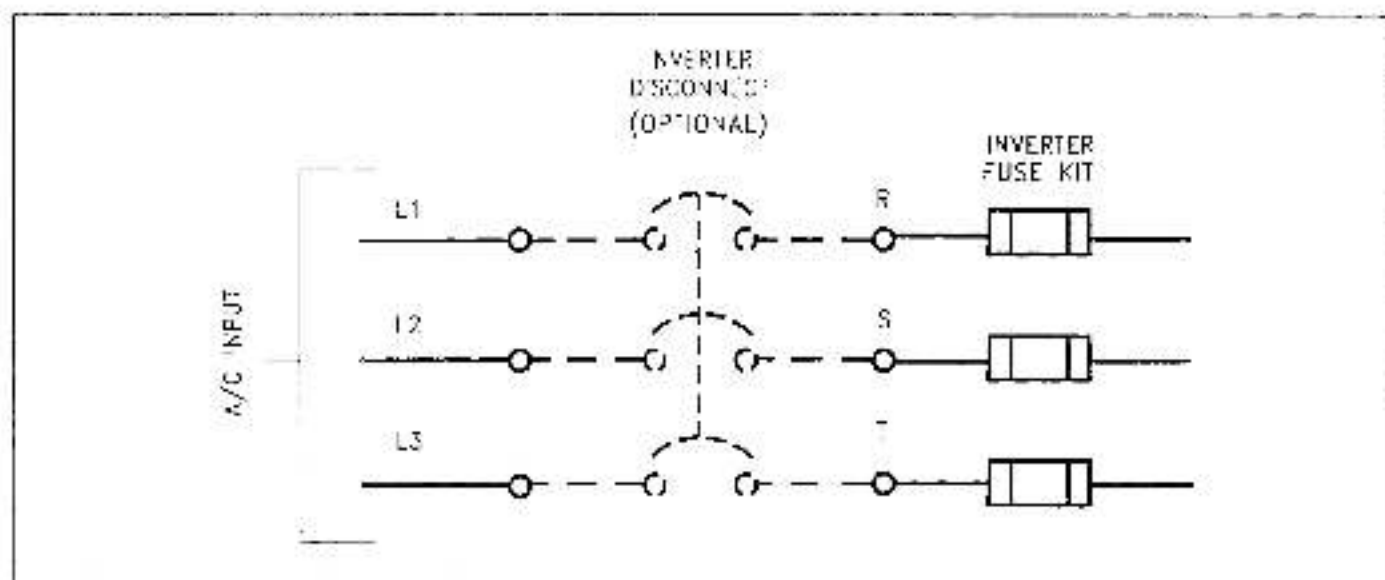


Figure 1. Inverter Fuse Kit Connection Diagram.

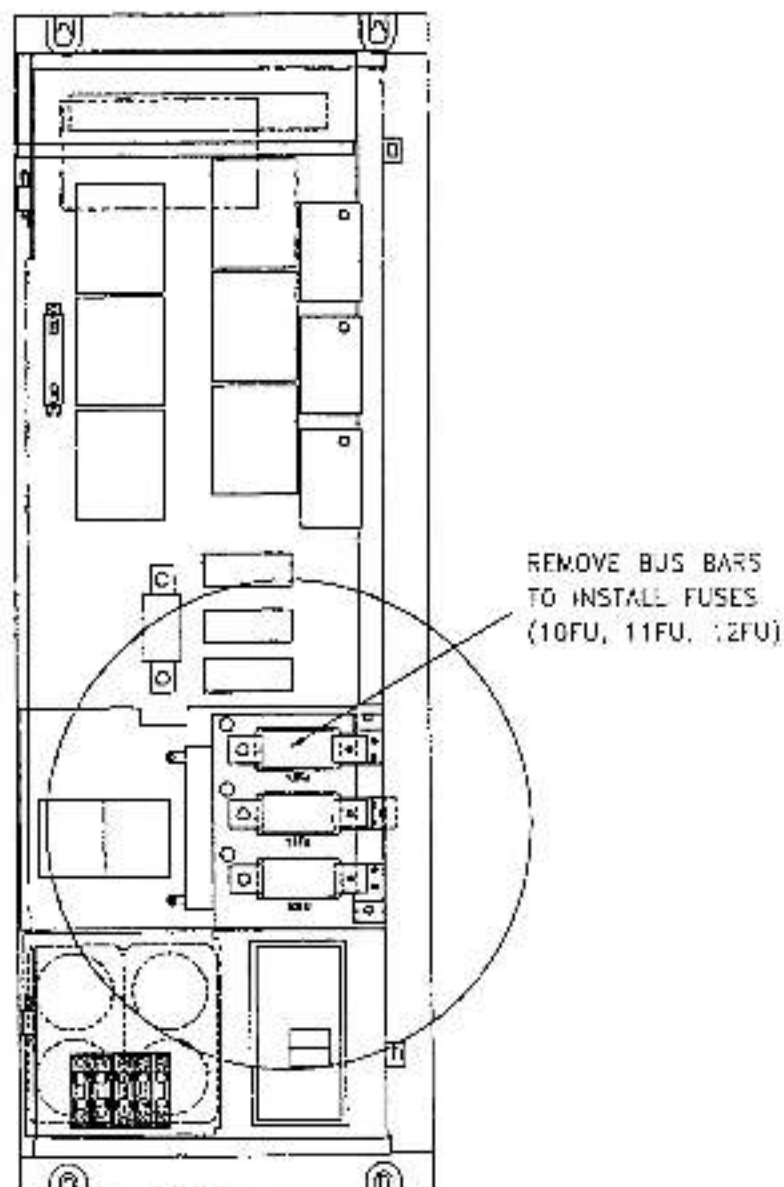


Figure 2. Fuse Installation Location.

Reliance Electric / 24701 Euclid Avenue / Cleveland, Ohio 44117 / (216) 266 7000

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