Isolated Contacts Interface Card User Manual

For Use with Sinergy III Series UPS

(For applications that require isolated dry contacts, including Nortel Meridian PBX Systems)

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A02-00050 Rev. A

Isolated Contacts Interface Card

The POWERVAR Isolated Contact Interface Card is for use with the Sinergy III Series UPS.

Your kit includes:

- POWERVAR Isolated Contact Interface Card (part number 17999-01R)
- User Manual Instructions

Technical Support

POWERVAR Corporation offers 24-hour technical support. Contact POWERVAR Technical Services:

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NOTE : *All calls received before 8 a.m. or after 5 p.m. Central Standard Time are forwarded to a cell phone. A POWERVAR Technical Service Representative will return your call within one half hour.*

Please contact POWERVAR Technical Services before attempting to repair or return any POWERVAR product. If a POWERVAR UPS needs repair or replacement, POWERVAR Technical Services issues a Return Material Authorization (RMA) number along with instructions on how to return the UPS.

Installation

To install the isolated contacts interface card:

1. Turn off and unplug the UPS during the installation.
2. Remove the slot cover plate (two screws) on the back of the unit.
3. Firmly slide the card into the slot.
4. Replace the two screws to secure interface card.

NOTE: *For Nortel Meridian systems, see Appendix A: Instructions for Nortel Meridian PBX Systems on page 6.*

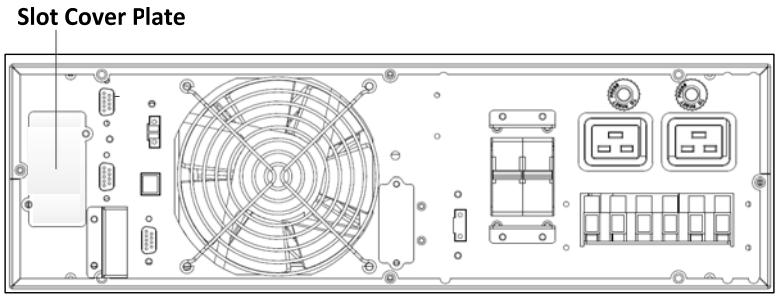

Figure 1 : Slot Cover Plate Model ACDEF6000-22

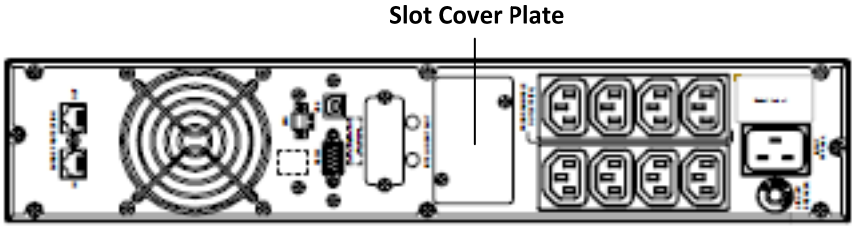

Figure 2 : Slot Cover Plate HV 2KVA

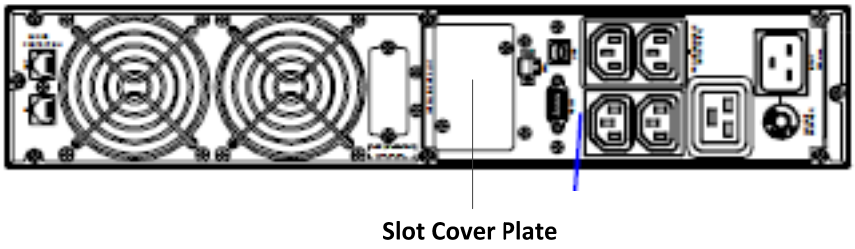

Figure 3 : Slot Cover Plate HV 3KVA

Operation

The Isolated Contacts Interface Card (see Figure 2) is an auxiliary interface card which provides isolated dry contact signals which indicate:

- Failure of AC source into the UPS.
- A low battery-charge state when the UPS is running from battery.
- UPS is in the BYPASS mode (not on line). There are two modes to select:
    - *N/C Contact* - (factory default), JP3 jumpered 1 to 2. See Figure 5.
    - *N/O Contact* - JP3 jumpered 2 to 3.
- Summary Alarm. There are two modes to select:
    - *N/C Contact* - (factory default), JP1 jumpered 2 to 3. See Figure 4.
    - *N/O Contact* - JP3 jumpered 1 to 2.
- A fifth signal will turn off the UPS inverter system. This signal capability is provided for computer-based systems that can signal when the operating system has been shut down and the UPS battery backup is no longer needed by the system. This conserves any remaining battery charge for subsequent power failures that may occur before the UPS battery has been recharged. A one second delay is standard.

See Figure 6 on page 4 for Isolated Contact Interface Card connector pin numbers and functions.

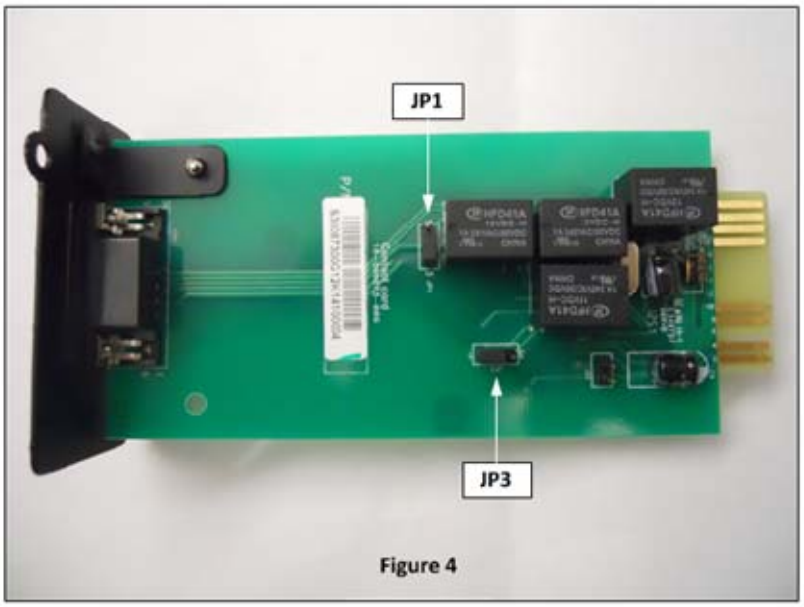

Figure 4

Figure 5
DB9 Connector

Figure 6
JP1 jumpered 2 to 3

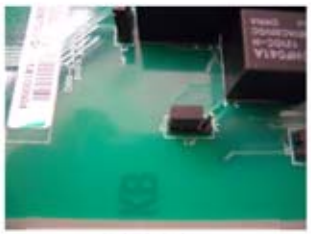

Figure 7
JP3 jumpered 1 to 2

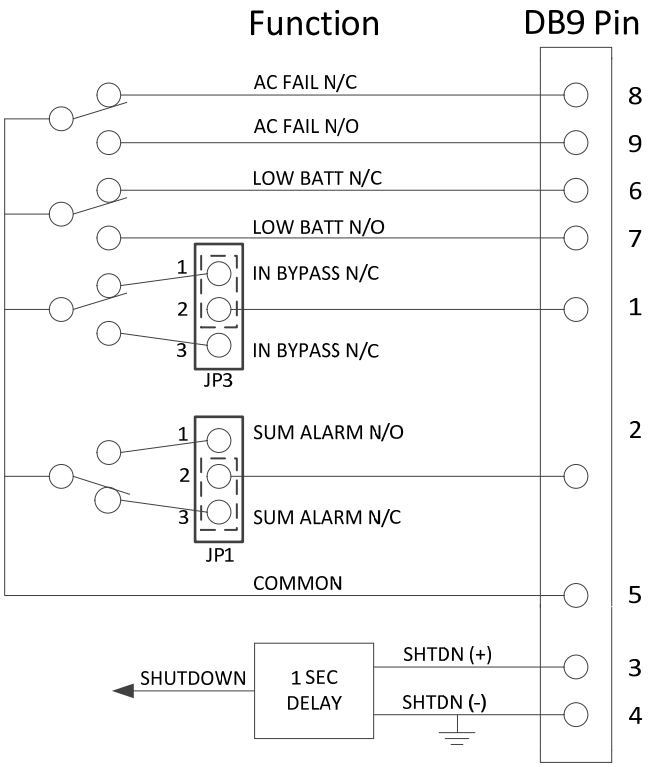

Figure 8 : Simplified Schematic of Interface Connections

Function	Pin
AC FAIL NC	8
AC FAIL NO	9
LOW BATTERY NC	6
LOW BATTERY NO	7
BYPASS	1
ALARM	2
COMMON	5
SHUTDOWN (+)	3
SHUTDOWN (-)	4

Isolated Relay Specifications

The isolated relay circuit is rated as follows :

- 1 Amp @ 125VAC
- 1 Amp @ 30VDC
- 100 mAmp @ 125VDC

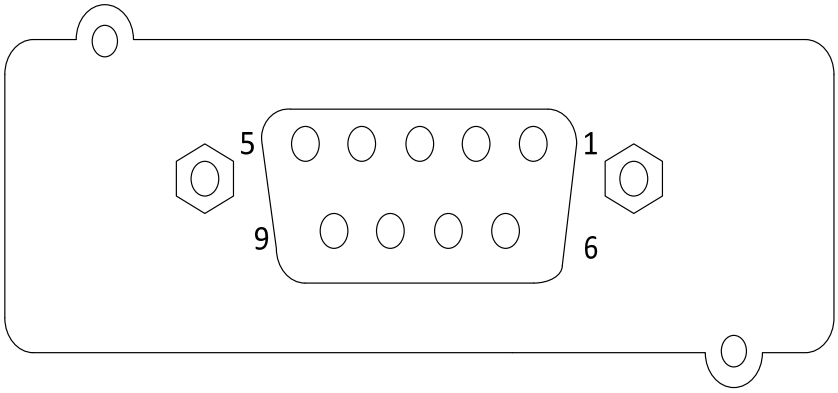

Figure 9 : DB9 Output Connector Isolated Contacts Card

Appendix A: Instructions for Nortel Meridian PBX Systems

The cable provided in this kit (CA-NTMeridian) should be connected between the 9-pin port on the Isolated Contacts card in the UPS and the system monitor (SYSMON) card installed in the Meridian system.

Refer to the Nortel Meridian Documentation for details on configuring the system monitor for logging UPS information.

Suggested references:

- Meridian 1 System Installation and Maintenance (PO842839)
- Meridian 1 XII System Messages (PO842845)

For POWERVAR Sinergy III Series UPS only:

- Alarm condition 1 should be interpreted as AC fail, inverter on.
- Alarm condition 2 should be interpreted as an indication of low battery condition. This condition is a normal condition that occurs during an extended power failure.