

# Automatic Transfer Switch Option Load Demand Inhibit

## Introduction

Load Demand Inhibit, (LDI) provides an input to the transfer switch. The input is a two-wire connection on the Relay Interface Board and is marked "LDI". It is pre-wired to the customer connection terminal blocks.

This option, when the input is active, will force the transfer switch from the emergency source and onto the normal source. If the normal source is not available, the transfer switch will be forced to the neutral position.

Once the transfer switch has been forced off the emergency source and the LDI input is still active, the transfer switch will be prohibited from connecting to the Emergency Source.

Once that input has been removed, automatic operations will resume.

## Product Features

- UL 1008 Listed
- Terminal Block Connection Point for Customer Wiring

## Operation Instructions

### Microprocessor Controls

The customer must wire in a normally open contact that they will close when LDI operation is required.

See Figure 1 for customer wiring terminals. The input to the Relay Interface Board is already pre-wired by Lake Shore Electric to terminal blocks 034 and 025.

When the customer contact has been closed, the ATS will be forced of emergency power. If normal power is not available, the ATS will be forced to the neutral position.

When automatic operation is required, remove the LDI input from the ATS and automatic operation will resume.

### Electromechanical Controls

There is no standard option to include LDI with Electromechanical Controls. Please consult the factory to discuss the requirements for adding this feature.

## Applications

Typical uses of the load demand inhibit function would be for load shedding applications.

**Load Shedding Definition:** The deliberate shutdown of electric power in a part or parts of a power-distribution system, generally to prevent the failure of the entire system when the demand strains the capacity of the system.

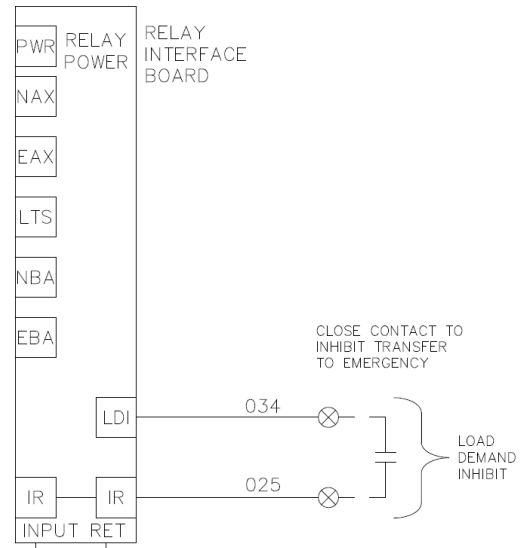


Figure 1

## Order Guide

### Part Number Examples:

1. ICFA32000BPSB/LDI - Insulated Case ATS, 3 pole, 2000 Amp, 120/208Vac, **24Vdc Microprocessor Controls**, 65kAIC @ 480Vac, NEMA 1 Free Standing Enclosure with Option LDI.
2. MCDA30400CPSA/LDI - Molded Case ATS, 3 pole, 400 Amp, 277/480Vac, **24Vdc Microprocessor Controls**, 35kAIC @ 480Vac, NEMA 1 Wall Mount Enclosure with Option LDI.