



INSTRUCTION MANUAL

DOCUMENT NO. 027-0172
Rev. 1.02 July 31, 2003

24 to 120 VAC Input + Relay Option Card for the DC400

Part Number 100-0172-01

Saftronics, Inc.

5580 Enterprise Pkwy

Ft. Myers, FL 33905

Tel. (239) 693 - 7200

Fax (239) 639 - 2431

www.saftronics.com

SAFETY FIRST !

LETHAL VOLTAGES MAY BE PRESENT

PLEASE READ THIS MANUAL THOROUGHLY BEFORE ATTEMPTING ANY INSTALLATION, OPERATION, MAINTENANCE, OR INSPECTION. FAILURE TO FOLLOW THE RECOMMENDED PROCEDURES OR CAUTIONS IN THIS MANUAL COULD RESULT IN INJURY TO PERSONNEL AND / OR DAMAGE TO THE EQUIPMENT.

CAUTION

- 1 – CHECK THE NAME WRITTEN ON THE PRODUCT AND INSURE THAT THE PROPER PART HAS BEEN RECEIVED.
- 2 – THOROUGHLY INSPECT THE PART(S) FOR ANY DAMAGE DUE TO SHIPMENT OR HANDLING.
- 3 - THE PART(S) MAY CONTAIN CMOS CHIPS AND CAN BE DAMGED BY STATIC ELECTRICITY. HANDLING SHOULD BE IN ACCORDANCE WITH INDUSTRY STANDARDS.
- 4 - BEFORE INSTALLING THE PART(S) TURN OFF ALL POWER TO THE EQUIPMENT.
LETHAL VOLTAGES ARE PRESENT
- 5 - DO NOT CONNECT OR DISCONNECT WIRING WHILE POWER IS **ON!**
- 6 - FOLLOW GOOD STANDARD WIRING PRACTICES AND ANY APPLICABLE CODES THAT MAY APPLY.

**DC400 DRIVE 24 to 120 VAC INTERFACE + RELAY CARD KIT
P/N 100- 0172- 01**

Description

The **100-0172-01** 24 to120 VAC Interface + Relay Card is designed to provide a hardware interface between the user's 24 to 120 VAC input control circuitry and the **Saftronics DC400** drives. It provides for up to (8) inputs with 5KVAC input / output opto-isolation and (4) programmable form C output relays. It is a stand alone card that mounts remotely in Snap –Track and has screw type terminals for input / output interface wiring. On board LED indicators provide input and relay status.

Specifications

Input Control Voltage	-	24 to 120 VAC RMS
Input Resistance	-	120 VAC : 50 kohm 24 VAC : 10 kohm
Isolation Voltage	-	5KVAC
Output relays	-	Form C contacts: 120 VAC @ 0.5A 24 VDC @ 1.0A

Kit Includes

(1) Interface Card	-	P/N 100-0172-01
(1) Snap-Track	-	P/N 041-3000

Installation

Turn off all power to the equipment being worked on before attempting any installation. Using the snap-track provided, mount the **100-0172-01** Interface Card in a suitable location that is free from heat sources, moisture, harmful chemicals and airborne particles. See **Fig.1** Product Appearance

Referring to the installation manual for the drive being used, follow the instructions for control terminals access and make the interconnections from the **100-0172-01** Interface Card to the drive in accordance with **Fig. 2**. Make the 24V to 120V, control input connections, for the control scheme being used. **Note: All wiring should be in accordance with applicable codes and follow good standard practices.**

When all wiring is completed and checked, apply power to the equipment and test the functionality of the system. Referring to the appropriate drive manual make the necessary programming changes for the particular application requirements.

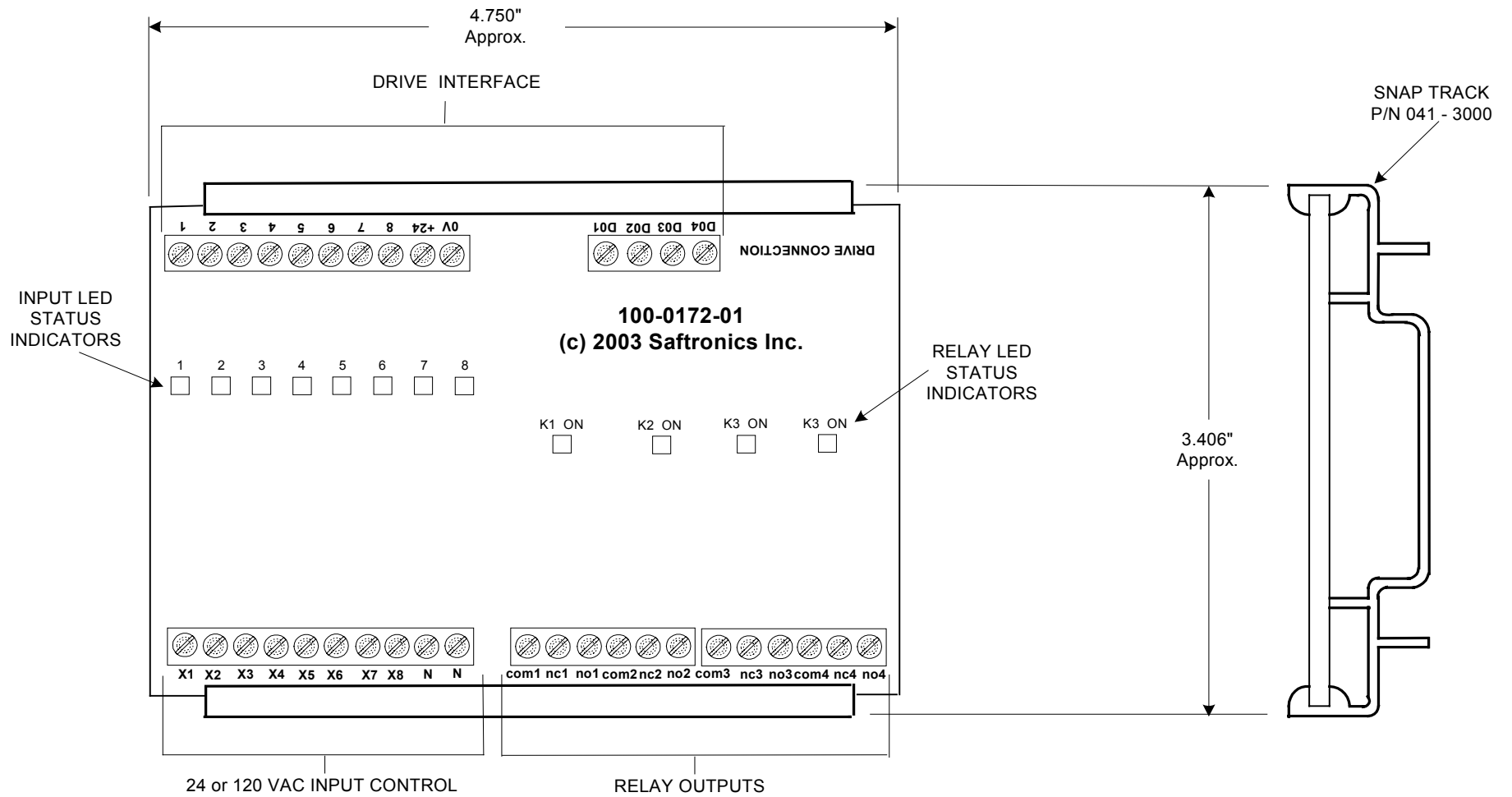


Fig. 1 100 - 0172 -01 Product Appearance

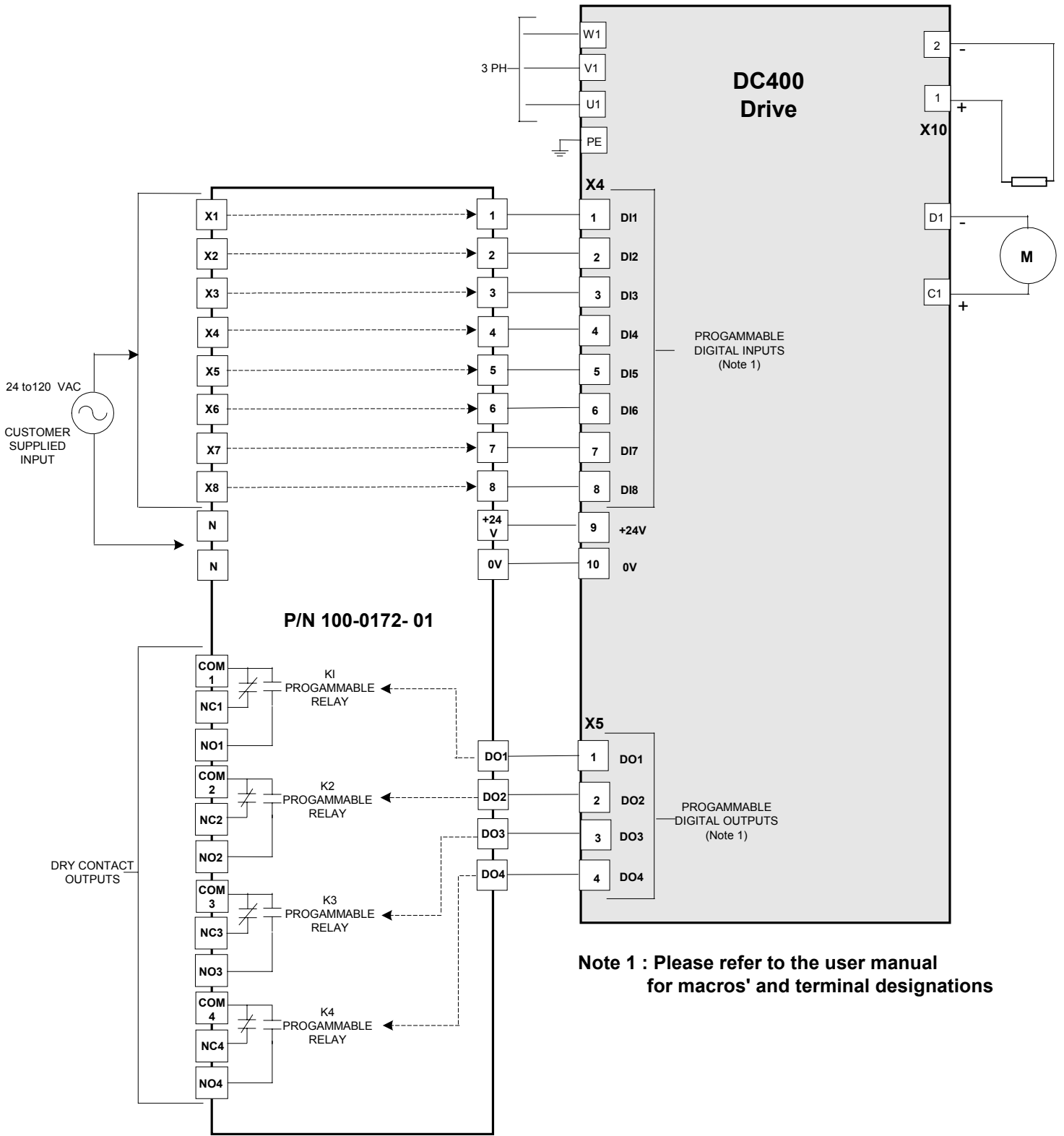


Fig. 2 - DC400 Drive 24 to 120 VAC INTERFACE + RELAY INTERCONNECTING DIAGRAM

WARNING!

Saftronics manufactures component parts that can be used in a wide variety of industrial applications. The selection and application of *Saftronics* products remains the responsibility of the equipment designer or end user. *Saftronics* accepts no responsibility for how its products may be incorporated into the final design.

Under no circumstances should any *Saftronics* product be incorporated into any product or design as the exclusive or sole safety control. Without exception, all controls should be designed to dynamically fault detect and fail safe under all circumstances. All products designed to incorporate a component part manufactured by *Saftronics*, must be supplied to the end user with appropriate warnings and instructions as to the safe use and operation. Any warnings provided by *Saftronics* must be passed through to the end user.

Saftronics offers an express warranty only as to the quality of its products to conform to the catalog specifications. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS OFFERED. *Saftronics* assumes no liability for any personal injury, property damage, losses or claims, arising out of the mis-application of its products.