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777-ACCUPOWER

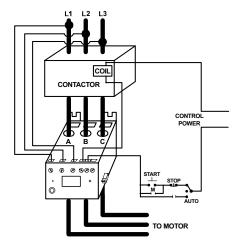
3-Phase Current & Voltage Monitor



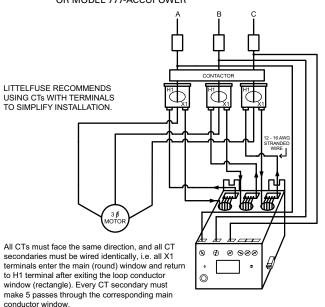


Wiring Diagram

TYPICAL WIRING DIAGRAM FOR MODEL 777-ACCUPOWER



CURRENT TRANSFORMER WIRING DIAGRAM OR MODEL 777-ACCUPOWER



Description

The 777-AccuPower is a fully-programmable 3-phase motor and pump protection relay. It allows motor hp rating, full load amps, efficiency and power factor to be entered and will accurately calculate motor output power. This is most useful with mag-drive pumps or process applications where the process power is desired over the utility power. Voltage, current and power measurements can be displayed as well as fault information and setpoints. The built-in display simplifies troubleshooting and allows the user to easily and precisely configure setpoints. The 777-AccuPower can be used with the optional COM 4-20 output module to give an analog signal proportional to output shaft power, the RS485MS-2W (for limited Modbus capabilities, and for use with the RM1000/RM2000) remote displays listed in the 777 accessories section.

Features & Benefits

FEATURES	BENEFITS
Motor output power measurement	Allows use of process power over utility power
3 programmable restart delay timers	Program separate restart delay time for rapid cycle protection, motor cool down, and dry-well recovery
Built-in Display	Visual indication for programming, viewing real-time voltage or current, and last fault code
Remote display compatibility	Increases safety through remote display of run-hour meter, last four fault codes, without the need to open the cabinet. Aids with arc flash safety regulations
Network communications capability	Limited Modbus capabilities using RS485MS-2W communication module

Accessories



RS485MS-2W Communication Module

(for limited Modbus capabilities)Required to enable the Modbus communications function on Model 77X-type products.



COM 4-20 Output Communication Module

This module allows communication to a PLC with an analog input and no Modbus input.



RM1000 Remote Monitor

The RM1000/777 motor management system combines unsurpassed electronic motor protection and critical, user-friendly, motor monitoring for up to 16 devices.



RM2000 Remote Monitor

The RM2000/777 motor management system combines unsurpassed electronic motor protection and critical, user-friendly, motor monitoring with event storage and real-time clock for date and time stamp.

2-800A (external CTs required over 90A)

5, 10, 15, 20, 30 (J prefix enables jam

protection feature)

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IEC 61000-4-2, Level 3, 6kV contact, 8kV air

IEC 61000-4-4, Level 3, 3.5 kV input power

C62.41 Surge and Ring Wave Compliance

IEC 68-2-6, 10-55Hz, 1mm peak-to-peak,

IEC 68-2-27, 30g, 3 axis, 11ms duration,

Meets UL508 (2 x rated V + 1000V for 1 min.)

IEC 61000-4-6, Level 3 10V/m

IEC 61000-4-3, Level 3 10V/m

Level 4. 4kV line-to-ground

to a level of 6kV line-to-line

61000-4-5 Level 3. 2kV line-to-line:

100kA

777-ACCUPOWER

Specifications

Input Characteristics

Line Voltage 200-480VAC Frequency 50/60Hz

Motor Full Load Amp Range Functional Characteristics

TC- Overcurrent Trip Class

Output Characteristics

Output Contact Rating (SPDT - Form C)

Pilot duty 480VA @ 240VAC General Purpose 10A @ 240VAC General Characteristics

Ambient Temperature Range

 $\begin{array}{lll} \textbf{Operating} & -40^{\circ} \ \text{to} \ 70^{\circ} \text{C} \ (-40^{\circ} \ \text{to} \ 158^{\circ} \text{F}) \\ \textbf{Storage} & -40^{\circ} \ \text{to} \ 80^{\circ} \text{C} \ (-40^{\circ} \ \text{to} \ 176^{\circ} \text{F}) \\ \end{array}$

Accuracy

Measured Horsepower/

Kilowatt

Typical $\pm 3\%$ **
Voltage $\pm 1\%$

Current $\pm 3\%$ (<100 amps direct)

GF Current ±15%

Timing 5% ±1 second

Repeatability

Voltage $\pm 0.5\%$ of nominal voltageCurrent $\pm 1\%$ (<100 amps direct)</th>

Maximum Input Power 10 W Pollution Degree 3

Class of Protection IP20, NEMA 1 (finger safe)

Relative Humidity 10-95%, non-condensing per IEC 68-2-3

Terminal Torque 7 in.-lbs.

Standards Passed

Electrostatic Discharge

(ESD)

Radio Frequency Immunity

(RFI), Conducted

Radio Frequency Immunity (RFI), Radiated

Fast Transient Burst

Short Circuit Rating

Surge

IEC

ANSI/IEEE

Hi-Potential Test

Vibration

Shock

Safety Marks

UL UL508, UL1053

CE IEC 60947-1, IEC 60947-5-1

CSA C22.2

Max. Conductor Size

through 777

Dimensions H 77.47 mm (3.05"); **W** 97.79 mm (3.85");

D 128.27 mm (5.05")

0.65" with insulation

2 hrs, 3 axis

half-sine pulse

Weight 1.3 lbs. (20.8 oz., 589.67 g)

Mounting Method Surface mount (4 - #8 screws) or

DIN rail mount

^{**}On a well balanced system within recommended current range.