imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





777-KW/HP-P2 SERIES

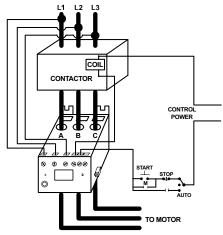
3-Phase Current & Voltage Monitor

@CE

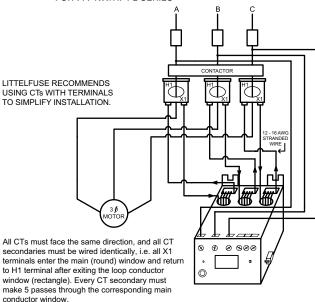


Wiring Diagram

TYPICAL WIRING DIAGRAM FOR 777-KW/HP-P2 SERIES

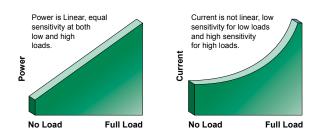


CURRENT TRANSFORMER WIRING DIAGRAM FOR 777-KW/HP-P2 SERIES



Description

The 777-KW/HP-P2 Series has the overload, voltage, phase loss and reversal, voltage and current unbalance, current and power monitoring*, and underload trip based on power in one package. The underpower trip feature is desirable anytime the current vs. load characteristic is non-linear or has little change. In general terms, smaller motors and slow-speed motors have little change in current over the normal load range. Larger motors that are running light loads will also show small current changes over the operating load range. For standalone applications, the units incorporate a 3-digit LED display that is used for programming, providing real-time operational information and displaying diagnostic codes to aid in troubleshooting a fault condition.



The units also feature a communications port that can be used with communication modules listed in the 777 accessories section to form a Modbus, DeviceNet[™], Profibus, or Ethernet network. Up to 99 units can be remotely monitored and controlled from a PC, PLC, or SCADA system, and data logging through a PC with the optional Solutions software.

* Low current trip and high power trip are network programmable only

Features & Benefits

FEATURES	BENEFITS	
Low and High Power Protection	Increases reliability for non-linear motors where the load characteristic has little change	
Built-in Display	Visual indication for programming, viewing real-time voltage, current, kilowatts, or horsepower, and last fault code	
Programmable voltage and current settings	Allows usage on wide range of systems	
3 selectable restart options	Choose from automatic, semi-automatic, or manual to best meet individual application needs	
3 programmable restart delay timers	Program separate restart delay time for rapid cycle protection, motor cool down, and dry-well recovery	
Remote display compatibility	Increases safety through remote display of real-time data and fault history, without the need to open the cabinet. Aids with arc flash safety regulations	
Flexible reset	Reset can be done through pushbutton on relay or remotely with optional 777-MRSW or OL-RESET remote reset kit	
Network communications capability	Compatible with Modbus, DeviceNet™, Profibus, or Ethernet using optional communications module	



777-KW/HP-P2 SERIES

Ordering Information

MODEL	LINE VOLTAGE	MOTOR FULL AMP RANGE	DESCRIPTION
777-KW/HP-P2	200-480VAC (3-phase)	2-800A (external CTs required above 90A)	Provides 480VA @ 240VAC output SPDT relay contacts
777-LR-KW/HP-P2	200-480VAC (3-phase)	1-800A (external CTs required above 9A)	Provides 480VA @ 240VAC output SPDT relay contacts
777-HVR-KW/HP-P2	340-480VAC (3-phase)	2-800A (external CTs required above 90A)	Provides 470VA @ 600VAC output SPDT relay contacts. Required when a CPT (control power transformer) is not used on a 480V system. Commonly used in pumping applications to save the cost and extra wiring associated with a CPT
777-575-KW/HP-P2	500-600VAC (3-phase)	2-800A (external CTs required above 90A)	Provides 480VA @ 240VAC output SPDT relay contacts. Used in Canada and NE USA where 575V utility power services are common
777-MLR-KW/HP-P2	200-480VAC (3-phase)	0.5-21A and 40-740A with external CTs	Provides 480VA @ 240VAC output SPDT relay contacts. It is wired directly without the need to loop conductors for 5-21 amps (under 5 amps requires looping of conductors), and can be used with external CTs for 40-740 amps

Accessories



RS485MS-2W Communication Module

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



CIO-MB/CIO-120-MB Communication Module Modbus-RTU interfaces capable of providing discrete control and monitoring of an overload relay over a Modbus network.



CIO-DN-P/CIO-120-DN-P Communication Module

DeviceNet[™] interfaces capable of providing discrete control and monitoring of motor starters, drives and other devices over a DeviceNet[™] network.



CIO-777-PR Communication Module Profibus interface capable of providing discrete control and monitoring of motor starters, drives and other devices over a Profibus network.



CIO-EN (non-POE) Communication Module Modbus-TCP and Modbus-RTU interface capable of providing discrete control and monitoring of an overload relay over a Modbus network.



Communication Adapters

RS485-RS232–Converter with cable & plug
RS485-USB–Converter with cable & plug
RS232-USB–Converter

Specifications match industry standard.



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.



Solutions Software: Solutions-M Software features include data logging, real-time data monitoring and fault and event monitoring.



777-MRSW Manual Remote Reset Kit Allows the 777 line of MotorSaver® and PumpSaver® products to be manually reset without opening the panel door.



OL-RESET Manual Remote Reset Kit Allows the 777 line of MotorSaver® and PumpSaver® products to be manually reset without opening the panel door.

777-KW/HP-P2 SERIES



Specifications

Frequency **Functional Characteristics TC-Overcurrent Trip Class Output Characteristics Output Contact Rating** (SPDT - Form C) Pilot duty rating **General purpose** Pilot duty rating for HVR model **General Characteristics** Ambient Temperature Range Operating Storage Accuracy Voltage Current Power **GF** Current Timing Repeatability Voltage Current Power Maximum Input Power Pollution Degree **Class of Protection Relative Humidity Terminal Torque Standards Passed Electrostatic Discharge**

(ESD) Radio Frequency Immunity (RFI), Conducted Radio Frequency Immunity (RFI), Radiated Fast Transient Burst Short Circuit Rating 50/60Hz

02-60, J02-J60, L00-L60 or OFF

480VA @ 240VAC, B300 10A @ 240VAC

470VA @ 600VAC, B600

-20° to 70°C (-4° to 158°F) -40° to 80°C (-40° to 176°F)

±1% ±3% (<100 amps direct) ±4% (<100 amps direct) ±15% ±0.5 second

±0.5% of nominal voltage ±1% (<100 amps direct) ±2% 10 W 3 IP20 10-95%, non-condensing per IEC 68-2-3 7 in.-Ibs.

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

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

IEC 61000-4-3, Level 3 10V/m IEC 61000-4-4, Level 3, 3.5 kV input power 100kA Surge IEC

ANSI/IEEE

Hi-potential Test

Vibration

Shock

Safety Marks UL

CE CSA Maximum Conductor Size (with insulation) through 777 Dimensions

Weight Mounting Method 61000-4-5, Level 3, 2kV line-to-line; Level 4, 4kV line-to-ground C62.41 Surge and Ring Wave Compliance to a level of 6kV line-to-line Meets UL508 (2 x rated V +1000V for 1 minute) IEC 68-2-6, 10-55Hz, 1mm peak-to-peak, 2 hours, 3 axis IEC 68-2-27, 30g, 3 axis, 11ms duration, half-sine pulse

UL508, UL1053 (File #E68520) IEC 60947-1, IEC 60947-5-1 C22.2

0.65" **H** 77.47 mm (3.05"); **W** 97.79 mm (3.85"); **D** 128.27 mm (5.05") 1.56 lbs. (24.96 oz., 707.6 g) Surface mount (4 - #8 screws) or DIN rail mount