



## 777 SERIES

### Ordering Information

MODEL	LINE VOLTAGE	MOTOR FULL AMP RANGE	DESCRIPTION
777-P2	200-480 V ac	2-800 A (external CTs required above 90 A)	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts
777-LR-P2	200-480 V ac	1-800 A (external CTs required above 9 A)	Protects low range motors when wired directly or with 10-800 FLA with use of external CTs
777-HVR-P2	340-480 V ac	2-800 A (external CTs required above 90 A)	Provides low and high power trip*, linear overcurrent trip, and 470 VA @ 600 V ac output SPDT relay contacts. Required when a control power transformer (CPT) is not used with a 480 V system
777-HVR-LR-P2	340-480 V ac	1-800 A (external CTs required above 9 A)	Provides low and high power trip*, linear overcurrent trip, and 470 VA @ 600 V ac output SPDT relay contacts. Required when a control power transformer (CPT) is not used with a 480 V system
777-575-P2	500-600 V ac	2-800 A (external CTs required above 90 A)	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts. Used in Canada and NE USA where 575 V utility power services are common
777-575-LR-P2	500-600 V ac	1-800 A (external CTs required above 9 A)	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts. Used in Canada and NE USA where 575 V utility power services are common
777-MV-P2	100-240 V ac	10-800 A with external CTs	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts. Designed for Medium Voltage applications where both PTs and CTs are used. Has built in multipliers for 25.5, 50.5, 100.5 CTs. The voltage unbalance, single-phase and reverse phase protection can be disabled for applications where only the PTs are used
777-HRG-P2	200-480 V ac	2-90 A only	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts. Designed for high resistance grounding systems that incorporate an external zero-sequence CT that correspond with the built in multipliers to detect ground faults
777-LR-HRG-P2	200-480 V ac	10-800 A (external CTs required, external)	Overload relays designed for high resistance grounding systems that incorporate an external zero-sequence CTs that correspond with the built in multipliers to detect ground faults
777-575-HRG-P2	500-600 V ac	2-90 A only	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts. Used in Canada and NE USA where 575 V utility power services are common. Designed for high resistance grounding systems that incorporate an external zero-sequence CT that correspond with the built in multipliers to detect ground faults
777-575-LR-HRG-P2	500-600 V ac	10-800 A with external CTs	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts. Used in Canada and NE USA where 575 V utility power services are common. Designed for high resistance grounding systems that incorporate an external zero-sequence CT that correspond with the built in multipliers to detect ground faults
777-FT	200-480 V ac	2-800 A (external CTs required above 90 A)	Provides linear overcurrent trip and 480 VA @ 240 V ac output SPDT relay contacts. Also known as shock relay, it is designed for fast linear trip applications. Overcurrent trip delay can be set ranging from less than 500 ms - 70 seconds. Low trip delay is ideal in chain drive and drive linkage applications to prevent breaking in overload or jam situations. Other applications include sewage clarifiers, mixers, augers, and conveyors. Longer trip delay is ideal for motor test panels in rewind shops. Also includes adjustable motor acceleration time and overcurrent trip delay time when the faster linear trip mode is used
777-TS	200-480 V ac	2-800 A (external CTs required above 90 A)	Provides 480 VA @ 240 V ac output SPDT relay contacts. For use with Subtrol equipped Franklin submersible motors to detect high motor temperatures
777-LR-TS	200-480 V ac	1-9 A only	Provides 480 VA @ 240 V ac output SPDT relay contacts. For use with Subtrol equipped Franklin submersible motors to detect high motor temperatures
777-575-TS	500-600 V ac	2-800 A (external CTs required above 90 A)	Provides 480VA @ 240 V ac output SPDT relay contacts. For use with Subtrol equipped Franklin submersible motors with nominal 500-600 V ac range to detect high motor temperatures
777VA-02	200-480 V ac	2-800 A (external CTs required above 90 A)	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts. Has restart delay 1 setpoints of 2-500 minutes and undercurrent trip delay setpoints of 2-60 minutes.
777VA-03	200-480 V ac	2-800 A (external CTs required above 90 A)	Provides low and high power trip*, linear overcurrent trip, and 480 VA @ 240 V ac output SPDT relay contacts. For use with static and rotary single to 3-phase converters. High and low voltage trip feature only applies to the utility supplied power. Works well with unloaded phase converters because the relay ignores severely unbalanced voltages

\* Network programmable only

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### 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.

### Specifications

#### Functional Characteristics

**Frequency** 50/60 Hz  
**TC- Overcurrent Trip Class (777 Plus Series units)** 02-60, J02-J60, L00-L60 or Off  
**TC- Overcurrent Trip Class (77C, 777 non-Plus Series units)** 5, 10, 15, 20, 30  
 (J prefix enables jam protection feature)

#### Output Characteristics

**Output Contact Rating (SPDT - Form C)** 480 VA @ 240 V ac, B300  
**Pilot duty rating** 10 A @ 240 V ac  
**General purpose** 470 VA @ 600 V ac, B600

#### General Characteristics

**Ambient Temperature Range**  
**Operating** -20 °C to 70 °C (-4 °F to 158 °F)  
**Storage** -40 °C to 80 °C (-40 °F to 176 °F)  
**Accuracy**  
**Voltage** ±1 %  
**Current** ±3 % (<100 amps direct)  
**GF Current** ±15 %  
**Timing (777 Plus Series units)** ±0.5 second  
**Timing (77C, 777 non-Plus Series units)** 5 % +1 second  
**Repeatability**  
**Voltage** ±0.5 % of nominal voltage  
**Current** ±1 % (<100 amps direct)  
**Maximum Input Power** 10 W  
**Pollution Degree** 3  
**Class of Protection** IP20  
**Relative Humidity** 10-95 %, non-condensing per IEC 68-2-3  
**Terminal Torque** 7 in.-lbs.  
**Standards Passed**  
**Electrostatic Discharge (ESD)** IEC 61000-4-2, Level 3, 6 kV contact, 8 kV air  
**Radio Frequency Immunity (RFI), Conducted** IEC 61000-4-6, Level 3 10 V/m  
**Radio Frequency Immunity (RFI), Radiated** IEC 61000-4-3, Level 3 10 V/m  
**Fast Transient Burst** IEC 61000-4-4, Level 3, 3.5 kV input power  
**Short Circuit** 100 kA  
**Surge**  
**IEC** 61000-4-5, Level 3, 2 kV line-to-line; Level 4, 4 kV line-to-ground  
**ANSI/IEEE** C62.41 Surge and Ring Wave Compliance to a level of 6 kV line-to-line  
**Hi-potential Test** Meets UL 508 (2 x rated V +1000 V for 1 minute)  
**Vibration** IEC 68-2-6, 10-55 Hz, 1 mm peak-to-peak, 2 hours, 3 axis  
**Shock** IEC 68-2-27, 30 g, 3 axis, 11 ms duration, half-sine pulse  
**Safety Marks**  
**UL** UL 508, UL 1053 (File #E68520)  
**CE** IEC 60947-1, IEC 60947-5-1  
**CSA** C22.2  
**Maximum Conductor Size (with insulation) through 777/77C** 0.65"  
**Dimensions** **H** 77.47 mm (3.05"); **W** 97.79 mm (3.85"); **D** 128.27 mm (5.05")  
**Weight** 1.56 lbs. (24.96 oz., 707.6 g)  
**Mounting Method** Surface mount (4 - #8 screws) or DIN-rail mount

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