Features

Compact design saves precious panel space.

Model 77Cs are UL listed overload relays.

Digital programmability permits precise customization.

15 parameters can be programmed for maximum protection.

Last fault memory provides instant troubleshooting diagnostics.

Voltage, current, last 4 faults, kWh usage, and power factor are recordable with communications package.

RS-485 port offers communication capabilities with computerized systems using Modbus.



The Model 77C is a fully-programmable electronic overload relay designed to monitor single-phase systems. It can be used as a stand-alone product or the communication port can be used to form a network to monitor the motors from a PC or other control system. Applications include CONVEYOR SYSTEMS, HVAC EQUIPMENT, PUMPS, SAWS, GRINDERS, AND OTHER SINGLE-PHASE ELECTRIC MOTORS.

The Model 77C includes a built-in current transformer (CT) which will handle applications from 2-90 Amps. An external current transformer can be implemented to handle applications up to 800 Amps. The Model 77C-LR is a low amperage range model used with motors drawing 1-9 full load amps. The following 14 parameters can be viewed from the 3-digit alphanumeric display or from a network computer: low voltage setpoint, high voltage setpoint, CT size/loops setting, overcurrent trip point, undercurrent trip point, trip class (5, 10, 20, 25, 30, or linear), rapid-cycle timer (RD1), overload restart delay (RD2), underload restart delay (RD3), number of restarts after an overload (manual or automatic), RS-485 address, number of restarts after an underload fault, underload trip delay, and linear overcurrent trip delay. Both the voltage and the line current can also be viewed while the motor is running.

The Model 77C can be used with an optional RS-485 module (pn RS485MS-2W) allowing up to 99 Model 77C, Model 777, Model 601, or RM-2000 units to be linked together using Modbus. From the computer, an operator can control the motor, view the operating parameters, or log information. SymCom's Solutions software and RS-485 module are sold separately.



Engineered Protection

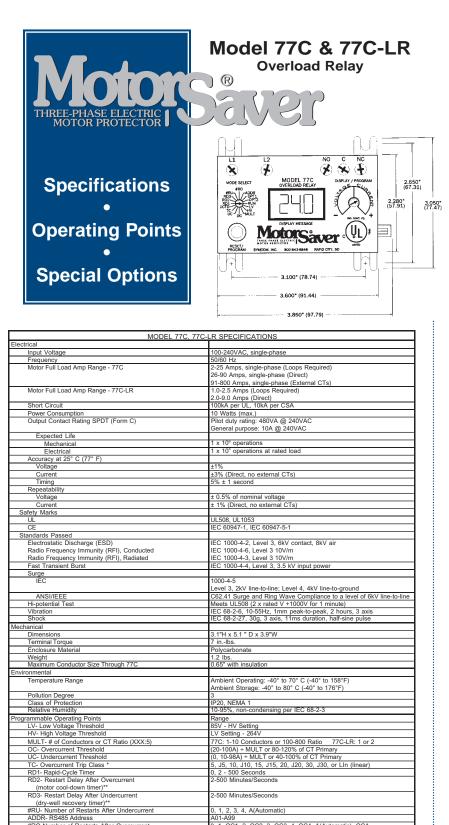
Protects Single-Phase Motors from:

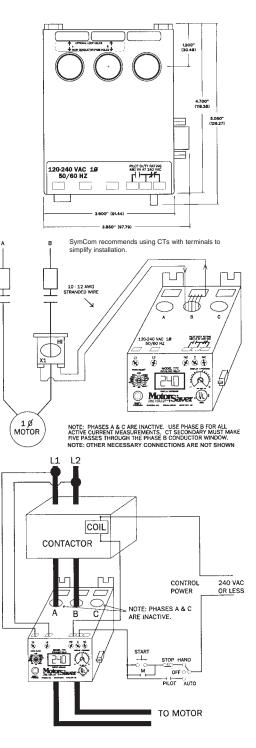
- Overload
- Underload
- Jams
- Low voltage
- High voltage
- Rapid cycling

Additional Features:

- Fully programmable
- CSA approved
- CE compliant
- UL and cUL listed
- Automatic or manual reset
- Tamper guard
- RS-485 communication port (pn RS485MS-2W)
- Remote reset
- Surface and DIN rail mountable
- Alphanumeric LED diagnostic display
- Last fault memory
- 5-year warranty
- Made in USA







- * If a "J" is displayed in the trip class setting, jam protection is enabled. If programmed to "Lin", overcurrent trip delays are fixed linear-type delays set in OPT1.
- ** RD2 & RD3 can be programmed to minutes or seconds in OPT2.

OPT2 SETTING	RD2	RD3
0	Minutes	Minutes
1	Minutes	Seconds
2	Seconds	Minutes
3	Seconds	Seconds

SymCom warrants its microprocessor-based products against defects in material or workmanship for a period of five (5) years from the date of manufacture. All other products manufactured by SymCom shall be warranted against defects in material and workmanship for a period of two (2) years from the date of manufacture. For complete information on warranty, liability, terms, returns, and cancellations, please refer to the SymCom Terms and Conditions of Sale document.

2-60 Sec

1, OC1, 2, OC2, 3, OC3, 4, OC4, A(Automatic), OCA



#RO-Number of Restarts After Overcurrent UCTD- Undercurrent Trip Delay

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