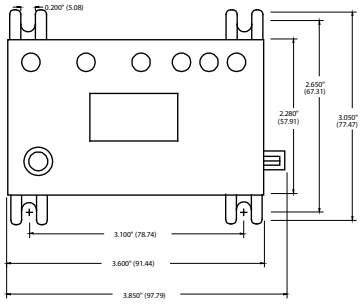
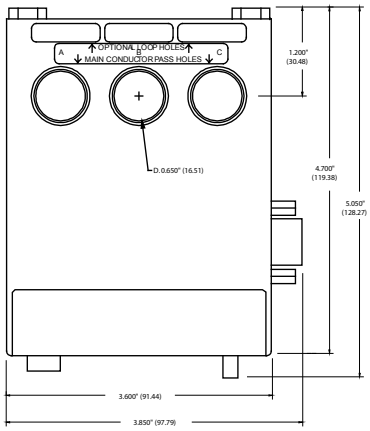
Overload Relays

Model 777VA-02

The SymCom 777VA-02 is an electronic overload relay with the same features as a 777-P, with the added convenience of a Restart Delay 1 of 0,2-500 minutes (RD1) and a Under Current Trip Delay of 2-255 minutes (UCTD). These added features are essential for pumps that require a longer restart delay to allow for long back-spin time and for motors with extended soft-start times.

This unit replaces the old SymCom model number 777-RD1M-UCT-DM.





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Specifications

Functional Specifications	
Programmable Operating Points	
LV-Low Voltage Threshold	170-524V
HV-High Voltage Threshold	172-528V
VUB-Voltage Unbalance Threshold	2-15% or 999 (disabled)
MULT-# of Conductors or CT Ratio (xxx:5)	1-10, 100, 150, 200, 300, 400, 500, 600, 700, 800
OC-Overcurrent Threshold	(20-100A) ÷ MULT of 80-140% of CT Primary
UC-Undercurrent Threshold	(0, 10-98A) ÷ MULT or 40-140% of CT Primary
CUB-Current Unbalance Threshold	2-25% or 999 (disabled)
TC-Overcurrent Trip Class and Linear Overcurrent Trip Delay	02-30, J02-J30; L00-L60 or oFF
RD1-Rapid-cycle Timer	0, 2-500 minutes (standard)
RD2-Restart Delay after all faults except undercurrent (motor cool-down timer)	2-500 minutes (standard)
RD3-Restart Delay after undercurrent (dry-well recovery timer)	2-500 minutes (standard), A (automatic)
#RU- Number of restarts after all undercurrent	0, 1, 2, 3, 4, A (automatic)
ADDR-RS485 Address	A01-A99
#RF-Number of restarts after all faults except undercurrent	0, 1, oc1, 2, oc2, 3, oc3, 4, oc4, A, ocA (automatic)
UCTD-Undercurrent Trip Delay	2-255 minutes (standard)
GF-Ground Fault Current Threshold	(3-20A) ÷ MULT or 12-80% of CT Primary or OFF
Input Characteristics	
Supply Voltage	200-480VAC
Frequency	50/60Hz
Motor Full Load Amp Range	2-25A, (looped conductors required); 25-90A (direct); 80-800A (external CTs required)
Output Characteristics	
Output Contact Rating - SPDT (Form C)	
Pilot Duty	480VA@240VAC
General Purpose	10A@240VAC
Expected Life	
Mechanical	1×10^6 operations
Electrical	1×10^5 operations at rated load
General Characteristics	
Operating Temperature	
Ambient Operating	-20° to 70° C (-4° to 158° F)
Ambient Storage	-40° to 80° C (-40° to 176° F)
Accuracy	
Voltage	± 1%
Current	± 3% (<100A direct)
GF Current	± 15%
Timing	5% ± 1 second
Repeatability	
Voltage	± 0.5% of nominal voltage
Current	± 1% (<100A direct)
Power Consumption	10 Watts (max.)
Pollution Degree	3
Class of Protection	IP20, NEMA 1
Relative Humidity	10-95%, non-condensing per IEC 68-2-3
Terminal Torque	7 in.-lbs.
Standards Passed	
Electrostatic Discharge (ESD)	IEC 1000-4-2, Level 3, 6kV contact, 8kV air
Radio Frequency Immunity (RFI), Conducted	IEC 1000-4-6, Level 3 10V
Radio Frequency Immunity (RFI), Radiated	IEC 1000-4-3, Level 3 10 V/m
Fast Transient Burst	IEC 1000-4-4, Level 3, 3.5 kV input power
Short Circuit	
Surge	
IEC	1000-4-5 Level 3, 2kV line-to-line; Level 4, 4kV line-to-ground
ANSI/IEEE	C62.41 Surge and Ring Wave Compliance to a level of 6kV line-to-line
Hi-potential Test	Meets UL508 (2 x rated V + 1000V for 1 minute)
Vibration	IEC 68-2-6, 10-55Hz, 1mm peak-to-peak, 2 hours, 3 axis
Shock	IEC 68-2-27, 30g, 3 axis, 11ms duration, half-sine pulse
Safety Marks	
UL	UL508, UL1053
CE	IEC 60947-1, IEC 60947-5-1
Max Conductor Size through 777-P	0.65" with insulation
Dimensions	3.0" H x 5.1" D x 3.6" W
Weight	1.2 lbs.
Mounting Method	Surface mount (4 - #8 screws) or DIN Rail Mount

How to order:

777VA-02

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