

SLM SERIES



Microprocessor Controlled Three Phase Monitor/Relays

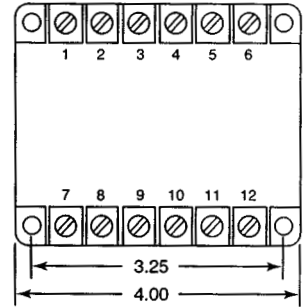
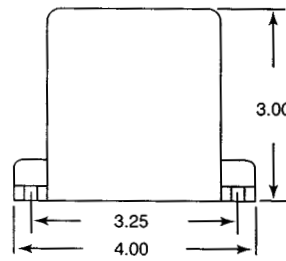


Style E

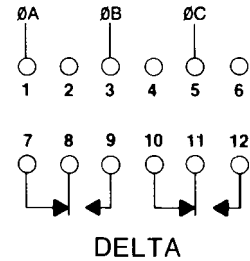


DIMENSIONS

INCHES



WIRING



DELTA

PHASE/VOLTAGE MONITORS

PROTECTS AGAINST

- Phase Loss
- External Adjustments
- Over Voltage
- Phase Unbalance
- Phase Reversal
- Frequency Shift
- Phase Shift
- Fault Indicators

FEATURES

- Under Voltage
- Auto/manual Reset
- Delay-on-Make
- Last Fault Memory
- DPDT Contacts
- Low Power Consumption
- Compact Packaging
- Uniform Restart in Multiple Load Installations

SPECIFICATIONS

PHASE SEQUENCE: ABC (Will Not Operate CBA)

VOLTAGE TRIP POINTS

Drop-Out: ±10% of Setting
Pick-Up: ± 7% of Setting

FREQUENCY TRIP POINTS

Drop-Out: ±4% of 60 Hz (380 V, 50 Hz)
Pick-Up: ±3% of 60 Hz (380 V, 50 Hz)

UNBALANCE TRIP POINTS

Drop-Out: 7%
Pick-Up: 5%

OUTPUT RATING: DPDT, 360 VA Inductive; 1/2 hp
3 A Resistive @ 600 VAC

RESPONSE TIMES

Operate

Sampling: 2 Seconds
Delay-on-Make: (Sampling Delay) + (1.5 seconds to 5 minute Delay)
Adjustable in one (1) minute increments

Release

Under Voltage: 1.5 Seconds, (Approximately)
Over Voltage: 1.5 Seconds, (Approximately)
Frequency Shift: 1.5 Seconds, (Approximately)
Unbalance: 2.0 Seconds, (Approximately)
*Phase Loss/Shift: 1.0 Seconds, (Approximately)

MODEL NUMBER	NOMINAL PHASE-TO-PHASE VOLTAGE SET POINTS	MAXIMUM VOLTAGE
SLM-120-ASE	105, 110, 115, 120, 125, 130	143 VAC
SLM-230-ASE	200, 210, 220, 230, 240, 250	275 VAC
SLM-380-ASE	350, 365, 380, 390, 400, 415	457 VAC
SLM-440-ASE	440, 450, 460, 470, 480, 490	540 VAC
SLM-575-ASE	525, 550, 575, 600	690 VAC

RESET MODES:

Automatic; Manual; Automatic with Memory

† LED INDICATORS:

Designation	Color	State	Condition
Time Delay/Normal	Green	Flashing	Timing
	ON		Output Energized
Under Voltage	Red	ON	Fault
Over Voltage	Red	ON	Fault
Phase Sequence, Shift	Red	ON	Fault
Frequency Shift	Red	ON	Fault
Unbalance	Red	ON	Fault

POWER REQUIRED:

7 VA Typical

TRANSIENT WITHSTAND:

2500 Volts for 10 ms

TEMPERATURES

Operate: 32°F to +131°F (0°C to +55°C)
Storage: -49°F to 185°F (-45°C to +85°C)

ENCLOSURE:

Lexan Surface Mounted

TERMINATIONS:

#8-32 Screw Terminals