

COMPARISON OF COMPETITIVE UNIVERSAL VOLTAGE PLUG-IN THREE-PHASE MONITOR RELAYS

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COMMON FEATURES OF PLUG-IN THREE-PHASE MONITOR RELAYS:

- Protects against phase loss, phase reversal, phase unbalance, undervoltage & overvoltage conditions along with rapid cycling
- Line-Line Voltage can be adjusted with power applied
- Adjustable settings for Line-Line Voltage, Restart Delay (except SSAC PMLU11), Trip Delay & Unbalance settings
- Works on 50/60 Hz only
- 8 pin plug-in with SPDT output contacts

COMPETITIVE COMPARISON

Feature	Macromatic PMPU 	Symcom 201A-AU 	SSAC PLMU11 	Diversified SLU-100-ASA 
Line-Line Voltage Range	190-500V AC	190-480V AC	200-480V AC	208-500V AC
Line-Line Voltage Scales	(2) 190-250V & 380-500V Both 50 & 60 Hz	(2) 190-240V & 380-480V Both 50 & 60 Hz	(3) 200-240V 50/60 Hz, 340-420V 50 Hz only & 400-480V 60 Hz only	(4) 208-240V 50 Hz only, 208-240V 60 Hz only, 346-415V 50 Hz only & 380-480V 60 Hz only
120V & 575V Versions	Yes	575V Only	No	No
Adjustable Undervoltage Trip Setting	Yes 80-95% of the Line-Line Voltage setting	No Fixed at 90% of Line-Line Voltage setting	No Fixed at 90% of Line-Line Voltage setting	No Fixed at 90% of Line-Line Voltage setting
Fully Functional with Lost Phase	Yes—LED remains indicating & voltage continues to be monitored	No—LED may turn off & voltage will not be monitored	No—LED may turn off & voltage will not be monitored	No—LED may turn off & voltage will not be monitored
Manual Reset	Yes	No, onboard only	No manual reset offered	No, onboard only
Full Fault Indication	Yes	Yes	Partially	No
Contact Ratings	10A @ 277V AC 7A @ 30V DC 1hp @ 250V AC / 1/2 hp @ 125V AC C300 Pilot Duty	10A General Purpose @ 240VAC No DC Rating No HP Rating B300 Pilot Duty	10A Resistive @ 240VAC No DC Rating 1/3 hp @ 240V AC / 1/4 hp @ 120V AC No Pilot Duty Rating	10A Resistive @ 240VAC No DC Rating 1/2 hp @ 240V No Pilot Duty Rating
	Yes	No	Yes	No

MACROMATIC ADVANTAGES

- **LINE-LINE VOLTAGE RANGE**
The wider the voltage range, the greater the number of applications that can be supported with only one unit.
- **LINE-LINE VOLTAGE SCALES**
Fewer scales that work on both 50 & 60 Hz are less confusing, easier to read and make setup straightforward.
- **SEPARATE 120V & 575V VERSIONS**
Love the features and benefits of the PMPU? Get all the same for other voltage systems.
- **ADJUSTABLE UNDERVOLTAGE TRIP SETTING**
An adjustable range vs. fixed provides greater flexibility to set accurate undervoltage trip point & avoid nuisance tripping.
- **FULLY FUNCTIONAL EVEN WITH LOST PHASE**
While other units may stop operating, the PMPU continues to monitor voltage & provide LED status to aid in troubleshooting.
- **MANUAL RESET-WORKS WITH EXTERNAL SWITCH**
Allows the unit to be safely & easily reset from outside the enclosure with a remote button instead of opening the door and reaching in to find a top-mounted switch or button on the unit.
- **FULL FAULT INDICATION**
Full fault indication with bi-color LED on top of unit. A dedicated color and pattern for each fault instead of only one color representing 3 or 4 faults— aids in troubleshooting.
- **CONTACT RATINGS**
The better the contact ratings, the greater the number of applications that can be met with only one unit & the greater the reliability of the output contacts.
- **ROHS COMPLIANT**
Macromatic is committed to protecting the environment.