

**Guard-AC™ PLUS** combines the benefits of reactor and MOV (metal-oxide varistor) technology to provide enhanced surge/spike protection for variable speed drive/inverter applications.

Use this product on the input side of variable speed controllers to offer protection from power line spikes, voltage transients and even to help reduce the effects of lightning.

**Guard-AC™ PLUS** is factory assembled and prewired. Simply connect three incoming and three outgoing conductors, and make connection to ground.

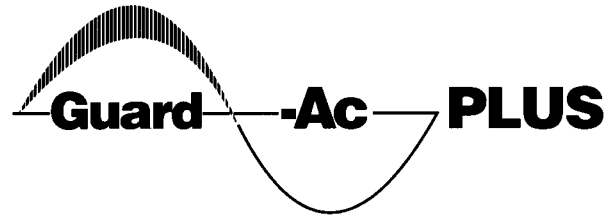
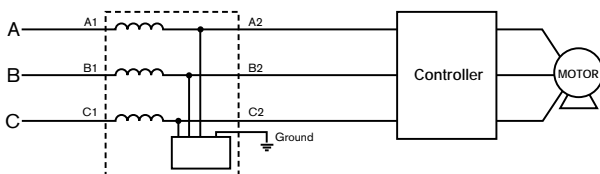
The reactor portion of this network absorbs current surges, while the MOV portion clamps voltage spikes to acceptable levels. They combine to offer the optimum in electronic controller circuit protection. The reactor even helps to extend MOV life by reducing the energy content of spikes prior to reaching the MOV module.

Three phase MOV modules contain high energy rated MOV's offering protection from the most common transient voltage spikes. Module life is extended due to additional protection offered by reactor.

#### Typical Applications Include:

- Adjustable Speed Drives
- SCR Controllers
- Rectifier Circuits
- Elevator Drive Systems
- Machine Tool Controls
- Industrial Controls
- Packaging Equipment
- Printing Presses

#### Connection Diagram:



## Three Phase Reactor with Surge Arrestor

600 Volts AC max., 50/60 Hz

**Guard-AC™ PLUS** reactors with surge arrestors offer enhanced protection of diodes, transistors, SCR's, thyristors, etc. from dangerous voltage spikes and current surges. They can reduce overall system operating costs by reducing equipment down time and increasing system reliability and efficiency.

**Guard-AC™ PLUS** offers the combined benefits of both reactors and MOV's including surge absorption, spike reduction and harmonic attenuation.

For Application Engineering  
Assistance, Call:

**1-800-455-4MTE, or  
262-253-8200**

e-mail: [appengrg@mtecorp.com](mailto:appengrg@mtecorp.com)



## Selection Table:

600 volts max., 50/60 Hz.

HP	PERCENT IMPEDANCE	208 Volts	240 Volts	380 Volts	415 Volts	480 Volts	600 Volts
1	3%	RLA-00401	RLC-00401	<b>4% IMPEDANCE*</b>		RLG-00201	RLJ-00202
	5%	RLA-00402	RLC-00402	RLE-00201	RLE-00202	RLG-00202	RLJ-00203
1 1/2	3%	RLA-00801	RLC-00801	RLE-00403	RLE-00404	RLG-00201	RLJ-00202
	5%	RLA-00802	RLC-00802			RLG-00202	RLJ-00203
2	3%	RLA-00801	RLC-00801	RLE-00403	RLE-00403	RLG-00402	RLJ-00403
	5%	RLA-00802	RLC-00802			RLG-00403	RLJ-00404
3	3%	RLA-01201	RLC-01201	RLE-00803	RLE-00804	RLG-00402	RLJ-00403
	5%	RLA-01202	RLC-01202			RLG-00403	RLJ-00404
5	3%	RLA-01801	RLC-01801	RLE-01203	RLE-00802	RLG-00802	RLJ-00803
	5%	RLA-01802	RLC-01802			RLG-00803	RLJ-00804
7 1/2	3%	RLA-02501	RLC-02501	RLE-01803	RLE-01202	RLG-01202	RLJ-00802
	5%	RLA-02502	RLC-02502			RLG-01203	RLJ-00803
10	3%	RLA-03501	RLC-03501	RLE-01802	RLE-01803	RLG-01802	RLJ-01202
	5%	RLA-03502	RLC-03502			RLG-01803	RLJ-01203
15	3%	RLA-04501	RLC-04501	RLE-02502	RLE-02502	RLG-02502	RLJ-01802
	5%	RLA-04502	RLC-04502			RLG-02503	RLJ-01803
20	3%	RLA-05501	RLC-05501	RLE-03503	RLE-03503	RLG-03502	RLJ-02502
	5%	RLA-05502	RLC-05502			RLG-03503	RLJ-02503
25	3%	RLA-08001	RLC-08001	RLE-04502	RLE-03502	RLG-03502	RLJ-02502
	5%	RLA-08002	RLC-08002			RLG-03503	RLJ-02503
30	3%	RLA-10001	RLC-08001	RLE-04502	RLE-04502	RLG-04502	RLJ-03502
	5%	RLA-10002	RLC-08002			RLG-04503	RLJ-03503
40	3%	RLA-13001	RLC-10001	RLE-08002	RLE-05502	RLG-05502	RLJ-04502
	5%	RLA-13002	RLC-10002			RLG-05503	RLJ-04503
50	3%	RLA-16001	RLC-13001	RLE-08002	RLE-08002	RLG-08002	RLJ-05502
	5%	RLA-16002	RLC-13002			RLG-08003	RLJ-05502
60	3%	RLA-20001	RLC-16001	RLE-10002	RLE-08002	RLG-08002	RLJ-08002
	5%	RLA-20002	RLC-16002			RLG-08003	RLJ-08003
75	3%	RLA-25001	RLC-20001	RLE-13003	RLE-10002	RLG-10002	RLJ-08002
	5%	RLA-25002	RLC-20002			RLG-10003	RLJ-08003
100	3%	RLA-32001	RLC-25001	RLE-16003	RLE-13002	RLG-13002	RLJ-10002
	5%	RLA-32002	RLC-25002			RLG-13003	RLJ-10003
125	3%	RLA-40001	RLC-32001	RLE-20003	RLE-16002	RLG-16002	RLJ-13002
	5%	RLA-40002	RLC-32002			RLG-16003	RLJ-13003
150	3%	RLA-50001	RLC-40001	RLE-25003	RLE-20003	RLG-20002	RLJ-16002
	5%	RLA-50002	RLC-40002			RLG-20003	RLJ-16003
200	3%	RLA-60001	RLC-50001	RLE-32003	RLE-25002	RLG-25002	RLJ-20002
	5%	RLA-60002	RLC-50002			RLG-25003	RLJ-20003
250	3%	RLA-75001	RLC-60001	RLE-40003	RLE-40003	RLG-32002	RLJ-25002
	5%	RLA-75002	RLC-60002			RLG-32003	RLJ-25003
300	3%	RLA-85001	RLC-75001	RLE-50003	RLE-40002	RLG-40002	RLJ-32002
	5%	RLA-85002	RLC-75002			RLG-40003	RLJ-32003
350	3%	RLA-100001	RLC-85001	RLE-50002	RLE-50002	RLG-50002	RLJ-40002
	5%	RLA-100002	RLC-85002			RLG-50003	RLJ-40003
400	3%	RLA-110001	RLC-100001	RLE-60003	RLE-60003	RLG-50002	RLJ-50002
	5%	RLA-110002	RLC-100002			RLG-50003	RLJ-50003
500	3%	RLA-140001	RLC-125001	RLE-75003	RLE-75003	RLG-60002	RLJ-50002
	5%	RLA-140002	RLC-125002			RLG-60003	RLJ-50003
600	3%	RLA-180001	RLC-150001	RLE-125003	RLE-110003	RLG-75002	RLJ-60002
	5%	RLA-180002	RLC-150002			RLG-75003	RLJ-60003
750	3%	RLA-210001	RLC-180001	RLE-140003	RLE-140003	RLG-90002	RLJ-75002
	5%	RLA-210002	RLC-180002			RLG-90003	RLJ-75003

\* 4 % is the standard impedance for European installations.

- For NEMA 1 enclosed units, change second-to-last digit from "0" to "1" (ie:RLA-01802 to RLA-01812).
- For other ratings, consult the factory.

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