

ASCO PULSAR® 451 Surge Suppressor

Features:

- Computer-matched “smart” MOV array technology for surge protection
- Unique sand-packed silver fuse network allows rated surge current to pass through without fuse operation
- Life cycle tested to survive repeated surge currents
- Available with all modes of protection (L-N, L-G, N-G, L-L)
- Sine wave tracking EMI/RFI filtering
- On-line system monitoring/testing for all suppression components in all modes of protection
- Form C Dry contacts for remote system monitoring
- Optional features include : rotary disconnect switch, audible alarm, silencing circuitry and surge counter for normal and common detection modes
- UL rated 200kAIC at 600 VAC
- UL 1449, 2nd Edition 2007 Revision / UL 1283 and CSA listed
- ANSI/IEEE C62.11, C62.41, C62.45 Categories A, B and C3 tested
- Service network with ASCO trained and authorized technicians. Call 1-800-800-ASCO



The ASCO PULSAR® 451 is a field proven, high performance surge suppressor which provides unsurpassed protection from damaging power surges and transients. Surge Current Rated from 100kA to 400kA per mode, the PULSAR® 451 is typically installed at the service entrance or any location having high exposure to energy surges and transients.

High energy current diversion is handled by multiple, parallel systems of computer matched non-linear voltage dependant Metal Oxide Varistor (MOV) arrays, each independently fused. The protection circuitry is packed with specially formulated sand and then epoxy encapsulated. This unique design insures unmatched levels of redundancy and exceptionally long product life.

All ASCO PULSAR® 451 models are mounted in standard NEMA 12 enclosures. A door mounted membrane status panel provides LED status indication of normal operation, undervoltage, power loss, phase loss or component failure.

The system also includes a built-in, push-to-test feature to check the integrity of each MOV/fuse pairing in each mode of protection. This allows the user real-time information on the condition of the unit, and provides peace of mind that the unit is fully functional at any time.

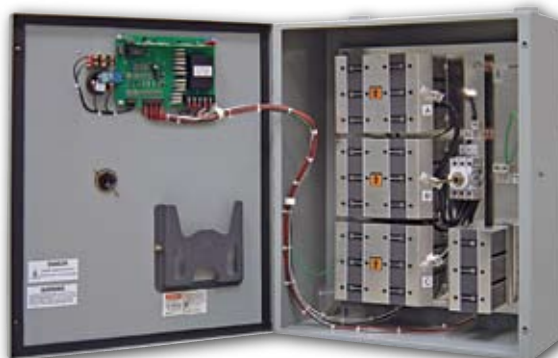
Ordering Information for ASCO PULSAR® 451 Surge Protector

Ordering Example : 451277Y200 → 277/480 VAC 4 Wire + gnd, L-G, L-N, N-G, L-L, 200kA/Phase.

Product Code	Voltage Code				Surge Code		Options
	1 ϕ Voltage	Code	3 ϕ Voltage	Code	Surge Current	Code	
451	110	110N	208	208D	100,000A	100	AS=Alarm & Surge Counter D= Rotary Disconnect — 3R= Type 3R Enclosure
	120	120N	240	240D	200,000A	200	
	230	230N	480	480D	300,000A	300	
	480	480L	600	600D	400,000A	400	
	120/240	120S	120/240	240H			
	230/400	230S	120/208	120Y			
			230/400 ¹	230Y			
			277/480	277Y			
		346/600	346Y				

1. Valid for 220/380 and 240/415 per IEC

Protection Code	
Code	100-400kA Protection Mode
N	Single Phase L-G, L-N, N-G
L	Single Phase L-G, L-L
S	Split Single Phase L-G, L-N, N-G, L-L
Y	Three Phase Wye L-G, L-N, N-G, L-L
D	Three Phase Delta L-G, L-L
H	Three Phase Delta Hi-Leg L-G, L-N, N-G, L-L



Dimensions (Inches)					
Surge Current	Protection Code	Width	Height	Depth	Weight (lbs.)
100kA	N	14.0	12.0	8.0	20
	L	14.0	12.0	8.0	20
	S	14.0	12.0	8.0	20
	Y	16.0	14.0	8.0	50
	D	16.0	14.0	8.0	50
	H	16.0	14.0	8.0	50
200kA	N	14.0	12.0	8.0	20
	L	14.0	12.0	8.0	20
	S	20.0	16.0	9.0	60
	Y	20.0	16.0	9.0	60
	D	20.0	16.0	9.0	60
	H	20.0	16.0	9.0	60

Dimensions (Inches)					
Surge Current	Protection Code	Width	Height	Depth	Weight (lbs.)
300kA	N	20.0	16.0	9.0	60
	L	20.0	16.0	9.0	60
	S	20.0	20.0	9.0	70
	Y	24.0	20.0	9.0	90
	D	24.0	20.0	9.0	90
	H	24.0	20.0	9.0	90
400kA	N	24.0	20.0	9.0	90
	L	24.0	20.0	9.0	90
	S	24.0	20.0	9.0	90
	Y	30.0	24.0	9.0	110
	D	30.0	24.0	9.0	110
	H	30.0	24.0	9.0	110