



Very Large Capacity SPD/ Surge Counter, DRY Contact, High Quality NSB□□□ASD/ NSB□□□SD & D /NSB□□□ Type 1,2,3/ Class I,II,III

■ NSB□□□ASD (Type 1/Class I),

NSB□□□SD/D NSB□□□

(Type 2, 3/ Class II, III) (Type 2, 3/ Class II, III)

■ Specification

- Very large capacity main power
 - High quality type SPD
- Class I (10/350uS)
 - Class II+III (1.2/50uS, 8/20uS)
- Surge event counter(option)
- Audible alarm & remote contact(option)
- Sine Wave tracking Filter(option)
- Redundant protection technology
- Maximum continuous operating voltage
 - Rated Voltage : 120~125%
- Operation Status
 - Red LED : Power Good
 - Green LED : SPD(Protection) Good
- Protection Mode : L-N, N-G & L-L, L-G(3∅)
- Protection method :
 - MOV(Metal Oxide Varistor)
 - Thermally protection MOV(TMOV)
 - Surge Suppression Fuse
 - Thermal runaway Fuse
- Surge life : 10,000 impulse 3KA
- Response time : 1 ~ 25 nanosecond
- Operating Frequency : DC ~ 400Hz, 50/60Hz
- Operating temperature : -40 ~ 85℃
- Operating humidity : 95% RH
- Mounting type : screw mounting type
- Connection : Parallel type / Wire(#AWG 3-6)
- Protection class : IP20
- Enclosure : Steel box type / NEMA 12 Meet



■ Application

- Very large capacity Main power
- UPS In/Out put power
- VMS Outdoor panel ,
- DAM & Water control center
- Broadcasting & Communication site
- Industrial plant
- Oil refinery
- Photovoltaic System
- Other Electrical Precision Equipment

■ Standards

- KS C IEC 62305
- KS C IEC 60364-4-44
- KS C IEC 61312-1
- KS C IEC 61643-1, 11 (2012)
 - / Type 1, 2, 3
 - / Class I, II, III
- Other relevant standards

■ Surge current (10/350uS, 8/20uS)

Model	Nominal voltage	MCOV	Surge current (KA)					Protect Level(U _p /KVpk)			
			Discharge current/ type of Power	U _c (V)	U _c (Vrms)	I _{imp}	I _{max}	I _n	Mode	Phase	3KA
Class I(10/350uS) NSB50A□□□ NSB60A□□□ NSB70A□□□ NSB80A□□□ NSB90A□□□ NSB100A□□□	-120Y	3P 4W 120/208	150	50						0.4	1.2
				60							
	-220S	1P 2W 220V	275	70						0.8	1.6
		3P 3W 220		80							
		3P 4W 220/380		90							
Class II,III(8/20us) NSB400□□□ NSB480□□□ NSB560□□□ NSB640□□□ NSB720□□□ NSB800□□□	-380D	3P 3W 380	475		200	100	200	400	1.5	2.5	
					240	120	240	480			
	-480D	3P 3W 480	600		280	140	280	560	1.8	3.0	
					320	160	320	640			
					360	180	360	720			
	-277Y	3P 4W 277/480	320		400	200	400	800	1.0	2.0	

Certification(inquiry) "CE" Mark(KS C IEC 61643-11 : 2012)

Option "□□□" "A" Class I (10/350uS) "S" : Surge Counter ,
"D" : Dry Contact Sine Wave tracking Filter(option): Order request

Dimension 300 X 400 X 127mm(Steel box)
* May be subject to change depending on the capacity and Operating voltage

* I_{imp}(Impulse discharge current, 10/350uS)
* I_n(nominal discharge current, 8/20uS)
* I_{max}(Maximum discharge current, 8/20uS)