



NST Series

Specification

- Very large capacity main power
 - High quality type SPD
- Class I (10/350uS)
Class II, III (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-G(1Ø),
L-N, N-G(3Ø),
+~, -~G, +-G(DC)
- 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°C

- Operating humidity : 95% RH
- Mounting type : screw mounting type
- Connection : Parallel type
/ Wire(#AWG 3~6)
- Protection class : IP20(up to IP53)
- 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(Up/KVpk		
			Uo(V)	Uc (Vrms/ Vdc)	I imp	I max/Mode	In	Phase	3KA
NST40□□	-120S	1P 2W 120	150	10	40	20	80	0.4 0.5(TMOV)	1.2
	-120Y	3P 4W 120/208							
	-240P	1P 3W 120/240							
NST80□□	-220S	1P 2W 220	275	20	80	40	160	0.8 1.0(TMOV)	1.6
	-220Y	3P 3W 220							
NST120□□	-380D	3P 3W 380	475	30	120	60	240	1.5 1.8	2.5 3.0
	-480D	3P 3W 480							
NST160□□	-277Y	3P 4W 277/480	320	-	160	80	320	1.0 1.8	2.0 3.2
	-480S	1P 2W 480							
NST200□□	-600S	1P 2W 600	800	-	200	100	400	2.2 0.4	4.0 0.8
	-150P	DC 2W 125							
NST240□□	-250P	DC 2W 220	260	-	240	120	480	0.5 1.0 1.3 1.5 1.8	1.0 2.0 2.4 2.7 3.2
	-500P	DC 2W 460							
	-750P	DC 2W 680							
	-900P	DC 2W 820							
	-1200P	DC 2W 1000							
Certification(inquiry)	KS C IEC 61643-11 : 2012								
Option "□□"	* "SD" : Surge Counter, Dry contact * "D" : Dry Contact				* "S" : Surge Counter * Other : Standard				
Dimension	* SD, S, D Model : 305 X 350 X 127mm (NST240 Series) * SD, S, D Model : 250 X 290 X 127mm (NST200~120 Series) * Standard Model : 250 X 290 X 100mm (NST200~120 Series) * Standard "SD", "S", "D" Model : 160 X 220 X 85mm (NST80~40 Series) * May be subject to change depending on the capacity and Operating voltage								

* In(Nominal discharge Current, 8/20uS)
* Imax(Maximum discharge Current, 8/20uS)