

NUINTEK Challenge & Passion



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# Introduction

NUINTEK is a company who pursues human's convenience through the parts industry. It is our thought that to make richness for people through that to make richness for people through technical development, the parts industry should be developed.

NUINTEK is, manufacturing the core parts with basic materials technologies that is a source of the parts industry, thinking only about parts, a sticked company.

To cover the parts for home appliances, advanced communications and the parts which can adopt to the environment, NUINTEK will be a company who pursues human's convenience with an endless technical development.

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# History

- 1968. 01 Established "KUKKWANG Electric Factory" in Seoul.
- 1977. 07 Incorporate the Registered Company as "KUKKWANG Electric Co., Ltd."
- 1979. 04 Started Manufacturing Low-Voltage Power Factor Correction Capacitors.
- 1981. 10 Started Manufacturing Metallized Film for Capacitors.
- 1990. 02 Started Manufacturing Metallized film for AC Capacitors .
- 1995. 01 Acquired ISO:9002 Certifications for Metallized Film, AC Capacitors.
- 1996. 10 Incorporated the China Facility to the Registered Company,
  - "KUKKWANG Suzhou Electric Co., Ltd."
- 1997. 02 Listed in KOSDAQ Stock Exchange Market.
- 2000. 01 Established a Joint Venture Company ("Nuintek VRK") in Thailand
- 2000. 03 Change Company's Registered Name to "NUINTEK Co., Ltd."
- 2006. 06 Acquired ISO 14001:2004 Environmental Management Certification from KSA
- 2008. 02 Selected as an Exclusive Collaborating Partner for Hyundai-Kia Motors' Eco-friendly Automobiles.
- 2013. 01 Won the "Green Car Award of the Venture Companies"
  - from Korea Automotive Technology Institute (KATECH)
- 2015. 01 Established Company ("NUINTEK DONGGUAN CO., LTD") in China
- 2015. 12 Acquired SQ Certifications for Metallized Film(SPV232), Assembly of electricity(EA65)



### SH Power Dry Capacitors

- SH Power Dry Capacitors Feature.
  - Using the polypropylene film which has excellent electronic properties as dielectric and using soft resin for insulator.
  - ♦ Specialized in preventing for Heat losing, Leaking, Damage.
  - Self-healing function under failure by the heat and electronic impact for durability of product.
  - Exclusion of using the impregnanted liquid to apply any production process where is required such safety working environment.
  - Installing the circuit breaker inside of product against any internal failure of product. with dielectric to help natural part.

#### Capacity Range

Phase	3
Rated current range.	1 ~ 50kvar
	30 ~ 924uF
Rated voltage range	220 ~ 800V
Frequency	50Hz / 60Hz
,	

#### Standard and Performance

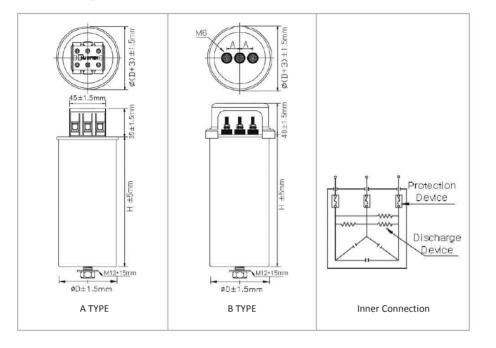
Location	·Indoor
Ambient temperature	$\cdot$ -25°C ~ +55°C(Average Less then 45°C a day).
Max. Permissible Overcurrent	· 150% of rated current
Withstand voltage	Between terminals : Rated voltage × 2.15(10sec)
Ű	Terminals to case: 3000Vac(10sec) or 3600Vac(2sec)
Safety Device	Inner pressure Security devices
Discharge Device	<ul> <li>Device Voltage decreases to Less than 50V in 1minute when disconnected from power source.</li> </ul>
Impregnant	· Polyurethane Soft Resin (Non PCB'S)
Reference Standard	· KS C 4801, KS C IEC 60831-1, IEC 60831-1
	· Rated voltage x 110% (8hours in every 24hours)
Max. Permissible Voltage	· Rated voltage x 115% (30minute in every 24hours)
	· Rated voltage x 120% (5minutes)
	· Rated voltage x 130% (1minute)



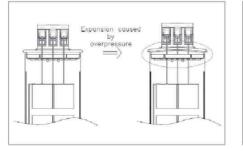
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### SH Power Dry Capacitors

#### Drawing

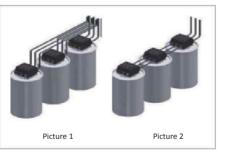


Inner type of security device



It makes a safety to shut out power supply, When have high internal pressure for end of life

#### Parallel connection method



Parallel capacitor exceed 50A same as picture 1, below 50A same as picture 2.

ex) 440V 3P 60Hz 120kvar 3 of parallel b connection. : Rated current 26.2A x 3 parallel = 78.6A : connect with picture

### SH Power Dry Capacitors

### SPECS & SIZE : 220V 50Hz

Rated Rated ca Voltage	apacity	Part No	Rated Part No. Current		Dimension [mm]				
[Vac]	kvar	uF	Part NU	[A]	D	Н	А	М	TYPE
	2.5	164	KNE-2231646S	6.6	76	165	-	45	А
	5	329	KNE-2233296S	13.1	76	195	-	45	А
220	7.5	492	KNE-2234926S	19.6	86	225	-	45	А
	10	657	KNE-2236576S	26.2	86	265	-	45	А
	12.5	822	KNE-2238226S	32.8	116	215	-/23	62/-	A/B

#### SPECS & SIZE : 400V 50Hz

Rated	Raicu Lap	Raicu capacity		Rated		Dimension [mm]				
Voltage [Vac]	kvar	μF	Part No	Current [A]	D	н	А	М	TYPE	
	5	100	KNE-4039965S	7.2	76	165	-	45	A	
	7.5	149	KNE-4031496S	10.8	76	195	-	45	А	
	10	199	KNE-4031996S	14.4	76	225	-	45	А	
12.5	249	KNE-4032496S	18.0	86	225	-	45	А		
400	15	299	KNE-4032996S	21.7	86	255	-	45	А	
	20	398	KNE-4033986S	28.9	116	215	-/23	62/-	A/B	
	25	497	KNE-4034976S	36.1	116	245	-/23	62/-	A/B	
	30	597	KNE-4035976S	43.3	116	275	-/23	62/-	A/B	
	40	795	KNE-4037956S	57.7	136	275	-	62	А	

Notice) The above infomation subject to change, so please contact us before purchasing.



### **SH** Power Dry Capacitors

#### Rated Rated Rated capacity Dimension [mm] Voltage Part No Current TYPE D н M [Vac] kvar μF [A] 5 92 KNE-4139205S 7.0 76 165 45 А KNE-4131396S 10.4 7.5 139 76 195 45 A KNE-4131856S 76 10 185 13.9 225 45 Δ 12.5 231 KNE-4132316S 17.4 86 225 45 А KNE-4132776S 15 277 20.9 86 225 45 Α 415 20 370 KNE-4133706S 26.8 86 295 45 A 462 KNE-4134626S 34.8 116 215 -/23 62/-25 A/B 30 554 KNE-4135546S 41.7 116 245 -/23 62/-A/B 40 740 KNE-4137406S 55.7 275 -/23 62/-136 A/B 50 924 KNE-4139246S 69.6 136 275 -/23 62/-A/B

#### SPECS & SIZE : 440V 50Hz

Rated Voltage	Rated o	capacity	Part No	Rated Current	Difficitor (finiti)				
[Vac]	kvar	μF	Fait NO	[A]	D	Н	А	м	TYPE
	5	82	KNE-4438205S	6.6	76	165		45	А
	7.5	123	KNE-4431236S	9.8	76	165	-	45	A
	10	164	KNE-4431646S	12.4	76	195		45	А
12.5 15	206	KNE-4432066S	16.4	86	195	-	45	А	
	15	247	KNE-4432476S	19.7	86	225	-	45	А
440	20	329	KNE-4433296S	26.2	86	265		45	А
	25	411	KNE-4434116S	32.8	116	215	-/23	62/-	A/B
	30	493	KNE-4434936S	39.4	116	245	-/23	62/-	A/B
	40	658	KNE-4436586S	52.5	116	275	-/23	62/-	A/B
	50	822	KNE-4438226S	65.6	136	275	-/23	62/-	A/B

### SPECS & SIZE : 415V 50Hz

### **SH** Power Wet Capacitors

#### SH Power Wet Capacitors Feature

- Using the polypropylene film which has excellent electronic properties as dielectric and using soft resin for insulator.
- Specialized in preventing for Heat losing, Leaking, Damage.
- ◆ Self-healing function under failure by the heat and electronic impact for durability of product.
- Exclusion of using the impregnanted liquid to apply any production process where is required such safety working environment.
- ♦ Installing the circuit breaker inside of product against any internal failure of product.
- Environment-friendly electronic product by using NON-PCB'S.

#### Capacity Range

Phase	3
Rated capacity range.	1 ~ 100kvar
	10 ~ 2000uF
Rated voltage range	220 ~ 1000V
Frequency	50Hz / 60Hz

#### Standard and Performance

Location	· Indoor
Ambient Temperature	$\cdot$ -25°C ~ +55°C(Average Less then 45°C a day).
Max. Permissible Over current	· 150% of rated current
Withstand voltage	· Between terminals : Rated voltage × 2.15(10sec)
	· Terminals to case: 3000Vac(10sec) or 3600Vac(2sec)
Safety Device	· Pressure built security devices
Discharge Device	<ul> <li>Device Voltage decreases to Less than 50V in 1minutes when disconnected from power source.</li> </ul>
Impregnant	· Po Oil (Non PCB'S)
Reference Standard	· KS C 4801, KS C IEC 60831-1, IEC 60831-1
	· Rated voltage x 110% (8hours in every 24hours)
Max. Permissible Voltage	$\cdot$ Rated voltage x 115% (30minutes in every 24hours)
	· Rated voltage x 120% (5minutes)
	· Rated voltage x 130% (1minute)



## SH Power Wet Capacitors

### Drawing

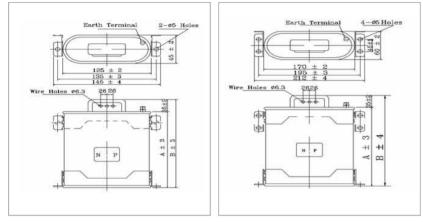
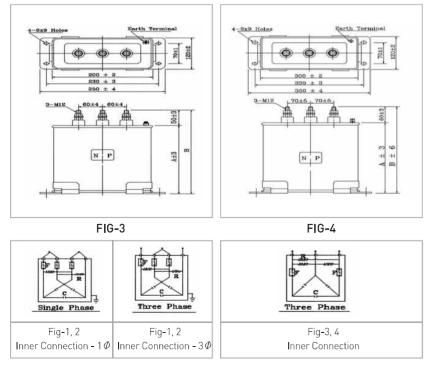


FIG-1

FIG-2



## **SH Power Wet Capacitors**

### SPECS & SIZE : 220V 50Hz

Rated	nated capacity		Part No	Rated	Dimensi	FIG	
Voltage [Vac]	kvar	μF	Part NO	Current [A]	А	В	FIG
	5	329	ENU-2225KS	13.1	152	187	1
	10	658	ANU-22210KS	26.2	170	220	3
	15	987	ANU-22215KS	39.4	190	240	3
	20	1315	ANU-22220KS	52.5	240	290	3
220	25	1644	ANU-22225KS	65.6	280	330	3
220	30	1973	ANU-22230KS	78.7	250	310	4
	35	2302	ANU-22235KS	91.9	260	320	4
	40	2631	ANU-22240KS	105.0	300	360	4
	45	2960	ANU-22245KS	118.1	320	380	4
	50	3288	ANU-22250KS	131.2	340	400	4

### SPECS & SIZE : 400V 50Hz

Rated Vo <b>l</b> tage	Rated	capacity	Part No	Rated Current	Dimensi	on [mm]	FIG
[Vac]	kvar	μF	Fait NO	[A]	А	В	110
	5	100	ENU-4025KS	7.2	132	167	1
	10	199	ENU-40210KS	14.4	152	187	2
	15	299	ENU-40215KS	21.7	202	237	2
	20	398	ANU-40220KS	28.9	180	230	3
	25	497	ANU-40225KS	36.1	190	240	3
400	30	597	ANU-40230KS	43.3	230	280	3
	35	696	ANU-40235KS	50.5	240	290	3
	40	796	ANU-40240KS	57.7	280	330	3
	45	895	ANU-40245KS	65.0	290	340	3
	50	995	ANU-40250KS	72.2	300	350	3
	75	1492	ANU-40275KS	108.3	320	380	4
	100	1989	ANU-402100KS	144.3	380	440	4

Notice) The above information subject to change, so please contact us before purchasing.

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## SH Power Wet Capacitors

### SPECS & SIZE : 415V 50Hz

Rated			Part No	Rated	Dimensi	FIG	
Voltage [Vac]	kvar	μF	Part No	Current [A]	А	В	FIG
	5	92	ENU-4125KS	7.0	132	167	1
	10	185	ENU-41210KS	13.9	152	187	2
	15	277	ENU-41215KS	20.9	202	237	2
	20	370	ENU-41220KS	27.8	252	287	2
	25	462	ANU-41225KS	34.8	180	230	3
415	30	554	ANU-41230KS	41.7	220	270	3
10	35	647	ANU-41235KS	48.7	230	280	3
	40	739	ANU-41240KS	55.7	240	290	3
	45	832	ANU-41245KS	62.6	280	330	3
	50	924	ANU-41250KS	69.6	290	340	3
	75	1386	ANU-41275KS	104.3	300	360	4
	100	1848	ANU-412100KS	139.1	350	410	4

### SPECS & SIZE : 440V 50Hz

Rated Voltage	Rated capacity		Part No	Rated Current	Dimensi	on [mm]	FIG
[Vac]	kvar	μF	Fait NO	[A]	А	В	110
	5	82	ENU-4425KS	6.6	132	167	1
	10	164	ENU-44210KS	13.1	202	237	2
	15	246	ENU-44215KS	19.7	252	287	2
	20	329	ENU-44220KS	26.2	180	230	3
	25	411	ANU-44225KS	32.8	190	240	3
440	30	493	ANU-44230KS	39.4	230	280	3
440	35	575	ANU-44235KS	45.9	240	290	3
	40	658	ANU-44240KS	52.5	280	330	3
	45	740	ANU <b>-</b> 44245KS	59.1	290	340	3
	50	822	ANU-44250KS	65.6	300	350	3
	75	1233	ANU-44275KS	98.4	340	400	4
	100	1644	ANU-442100KS	131.2	390	450	4

## High Voltage Power Capacitors

### High Voltage Power Capacitors Feature

- It is very excellent product to have a polypropylene film with dielectric insulator. And They have very excellent ability that low loss, coalescence reduction, prevention of oil leak, prevention of disasters.
- The use of high quality materials ensure reliability and longevity.

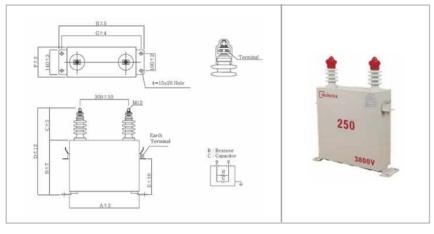
### Specification

Location	· Indoor or outdoor				
Ambient temperature	-20 $\mathbb C \to$ +55 $\mathbb C$ (24hours average Less than 45 $\mathbb C$ , Less than 35 $\mathbb C$ a year)				
Max. Permissible Over current	· 150% of rated current				
Withstand voltage (Between Terminals)	· Rated voltage x 2.15, 10sec				
	· (Insulating level 3A ) 16kv, 1minute				
Withstand voltage	· (Insulating level 6A ) 22kv, 1minute				
(Terminals to Case)	· (Insulating level 10A) 28kv, 1minute				
	· (Insulating level 20A) 50kv, 1minute				
Discharge Device	<ul> <li>Device Voltage decreases to Less than 50V in 5minutes when disconnected from power source.</li> </ul>				
Temperature rise	$\cdot$ Less than 30deg (at rated voltage, 35 $^\circ\!\!\!\mathrm{C}$ )				
Reference Standard	· KS C 4802, KS C IEC 60871-1, IEC 60871-1				
	· Rated voltage x 110% (12hours in every 24hours)				
Max. Permissible Overvoltage	· Rated voltage x 115% (30min in every 24hours)				
Max. Permissible Overvoitage	· Rated voltage x 120% (5minutes)				
	· Rated voltage x 130% (1minute)				
Color	· Munsell No. 5Y 7/1				



## High Voltage Power Capacitors

### High voltage power capacitors (1-phase)



Drawing

### SPECS & SIZE : 3.3KV, 1.9KV, 1-Phase, 50Hz

Line Voltage	Rated Voltage	Rated	Rated	Part No.	Dimension[mm]								Weight
[KV]	[KV]	capacity [kvar]	Current [A]	Part NO.	А	В	С	D	E	F	G	Н	[kg]
		50	26.3	APJ-P3319250D	430	230	185	415	100	115	495	530	28
		100	52.6	APJ-P33192100D	430	340	185	525	210	115	495	530	33
		150	79.0	APJ-P33192150D	430	370	185	555	240	145	495	530	39
3.3	1.9	200	105.3	APJ-P33192200D	430	470	185	655	340	145	495	530	46
		250	131.6	APJ-P33192250D	430	560	185	745	380	145	495	530	51
		300	157.9	APJ-P33192300D	430	640	185	825	460	145	495	530	57
		400	210.5	APJ-P33192400D	430	820	185	1005	600	145	495	530	68

### High Voltage Power Capacitors

### SPECS & SIZE : 6.6KV, 3.8KV, 1-Phase, 50Hz

Line Vo <b>l</b> tage	Rated Voltage	Rated capacity	Rated Current	Part No.	Dimension [mm]								Weight
[KV]	[KV]	[kvar]	[A]	Fait NO.	А	В	С	D	E	F	G	Н	[kg]
		50	13.2	APJ-P6638250D	430	230	185	415	100	115	495	530	28
		100	26.3	APJ-P66382100D	430	350	185	535	220	115	495	530	34
		150	39.5	APJ-P66382150D	430	380	185	565	250	145	495	530	40
6.6	3.8	200	52.6	APJ-P66382200D	430	470	185	655	340	145	495	530	46
		250	65.8	APJ-P66382250D	430	560	185	745	380	145	495	530	51
	300	79.0	APJ-P66382300D	430	650	185	835	470	145	495	530	57	
		400	105.3	APJ-P66382400D	430	820	185	1005	600	145	495	530	68

### SPECS & SIZE : 22.9KV, 13.2KV, 1-Phase, 50Hz

Line Vo <b>l</b> tage	Rated Vo <b>l</b> tage	Rated	Rated	Part No.				Dimensi	on [mm]				Weight
[KV]	[KV]	capacity [kvar]	Current [A]	Part NO.	А	В	С	D	E	F	G	Н	[kg]
		50	7.6	APJ-P2266250D	430	210	305	515	90	145	495	530	29
		100	15.2	APJ-P22662100D	430	310	305	615	180	145	495	530	36
		150	22.7	APJ-P22662150D	430	400	305	705	270	145	495	530	41
22.9	13.2	200	30.3	APJ-P22662200D	430	490	305	795	360	145	495	530	47
		250	37.9	APJ-P22662250D	430	590	305	895	410	145	495	530	54
		300	45.5	APJ-P22662300D	430	680	305	985	470	145	495	530	60
		400	60.6	APJ-P22662400D	430	880	305	1185	600	145	495	530	73

### SPECS & SIZE : 35KV, 23KV, 1-Phase, 50Hz

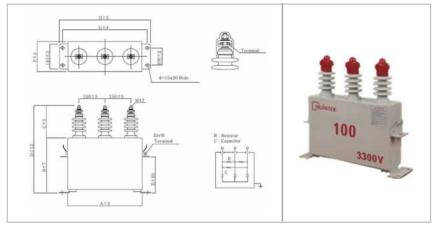
Line Vo <b>l</b> tage	Rated Voltage	Rated	Rated Current	Part No.				Dimensio	on [mm]				Weight
[KV]	[KV]	capacity [kvar]	[A]	Fait NO.	А	В	С	D	E	F	G	Н	[kg]
		50	2.2	APJ-P3523250D	430	280	305	585	150	145	495	530	31
		100	4.4	APJ-P35232100D	430	330	305	635	200	145	495	530	34
		150	6.5	APJ-P35232150D	430	420	305	725	290	145	495	530	40
35	23	200	8.7	APJ-P35232200D	430	520	305	825	340	145	495	530	46
		250	10.9	APJ-P35232250D	430	590	305	895	410	145	495	530	51
		300	13.0	APJ-P35232300D	430	670	305	975	490	145	495	530	56
		400	17.4	APJ-P35232400D	430	850	305	1155	630	145	495	530	67

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### High Voltage Power Capacitors

### High voltage power capacitors (3-phase)



Drawing

### SPECS & SIZE : 3.3KV, 3.3KV, 3-Phase, 50Hz

Line	Rated	Rated	Rated	Davit Ma				Dimensi	on[mm]	I			Weight
Voltage [KV]	Voltage [KV]	capacity [kvar]	Current [A]	nt Part No.	А	В	С	D	E	F	G	Н	[kg]
		50	8.8	APJ-P33332505	430	220	185	405	90	115	495	530	21
3.3	3.3	75	13.1	APJ-P33332755	430	280	185	465	150	115	495	530	24
		100	17.5	APJ-P33332100S	430	280	185	465	150	145	495	530	29

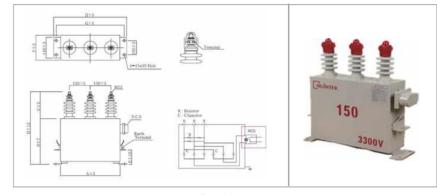
### SPECS & SIZE : 6.6KV, 6.6KV, 3-Phase, 50Hz

Line	Rated	Rated	Rated	Davit Ma	Dimension[mm]								Weight
Voltage [KV]	Voltage [KV]	capacity [kvar]	Current [A]	Part No.	А	В	С	D	Е	F	G	Н	[kg]
		50	4.4	APJ-P6666250S	430	220	185	405	90	115	495	530	21
6.6	6.6	75	6.6	APJ-P6666275S	430	280	185	465	150	115	495	530	24
		100	8.8	APJ-P666621005	430	280	185	465	150	145	495	530	29

#### Notice] The above information subject to change, so please contact us before purchasing.

### High Voltage Power Capacitors

High voltage power capacitors (3-phase) - with NCS (Natural Current Sensor)



Drawing

### SPECS & SIZE : 3.3KV, 3.3KV, 3-Phase, 50Hz

Line	Rated	Rated capacity		Rated Current	Dant Ma			Weight									
Voltage [KV]	Voltage [KV]	[kvar]	[A]	Part No.	А	В	С	D	E	F	G	Н	[kg]				
		150	26.2	APJ-P33332150S	430	400	185	585	180	145	495	530	40				
	3.3	200	35.0	APJ-P33332200S	430	480	185	665	260	145	495	530	47				
~ ~		3.3	3.3	250	43.7	APJ-P33332250S	430	580	185	765	360	145	495	530	55		
3.3				3.3	3.3	300	52.5	APJ-P33332300S	430	680	185	865	460	145	495	530	63
							400	70.0	APJ-P33332400S	430	700	185	885	480	145	495	530
		500	87.5	APJ-P33332500S	430	830	185	1015	610	145	495	530	86				

### SPECS & SIZE : 6.6KV, 6.6KV, 3-Phase, 50Hz

Line	Rated	Rated capacity		Davit Na	Dimension[mm]								Weight
Voltage [KV]	Voltage [KV]	[kvar]	[A]	Part No.	А	В	С	D	Е	F	G	н	[kg]
		150	13.1	APJ <b>-</b> P66662150S	430	420	185	605	200	145	495	530	41
		200	17.5	APJ-P66662200S	430	480	185	665	260	145	495	530	47
		250	21.9	APJ-P66662250S	430	580	185	765	360	145	495	530	55
6.6	6.6	300	26.2	APJ <b>-</b> P66662300S	430	680	185	865	460	145	495	530	63
	400	35.0	APJ-P666624005	430	700	185	885	480	145	495	530	74	
		500	43.7	APJ-P66662500S	430	830	185	1015	610	145	495	530	86

Notice] The above information subject to change, so please contact us before purchasing

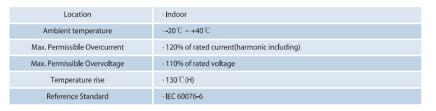


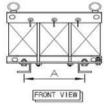
### Series Reactor & Discharge Coil

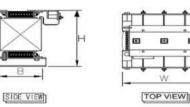
### Series Reactor & Discharge Coil Feature

- $\boldsymbol{\diamondsuit}$  Series reactor reduces the problems occurring when the capacitor installed.
- $\clubsuit$  Advantages during installation.
  - To Decrease the distortion of the voltage and current wave forms.
  - To suppress harmonic that flows into the capacitor.
  - It reduces inrush current during switching capacitors.

### Series Reactor of Specification







### Low voltage

Line	Rated	Part No.		Di	mension[m	m]		Weight
Voltage [KV]	capacity [kva]	Part No.	W	D	Н	А	В	[kg]
	10	NSR-L6010	250	250	280	170	220	26
	15	NSR-L6015	250	260	280	170	220	29
	20	NSR-L6020	280	260	280	190	230	32
	25	NSR-L6025	280	270	280	190	240	34
	30	NSR-L6030	280	270	280	190	240	36
220-440	40	NSR-L6040	280	300	280	190	250	40
	50	NSR-L6050	310	270	350	210	250	52
	60	NSR-L6060	310	280	350	210	250	57
	75	NSR-L6075	310	300	350	210	260	61
	100	NSR-L6100	340	310	370	240	260	75
	150	NSR-L6150	370	310	390	250	290	95
	200	NSR-L6200	370	330	390	250	290	107

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#### High voltage

Line	Rated	Part No.		D	imension[m	m]		Weight
Voltage [KV]	capacity [kva]	Part NO.	W	D	н	А	В	[kg]
	30	NSR-H6030	360	440	370	250	260	45
	40	NSR-H6040	360	450	370	250	270	49
	50	NSR-H6050	360	460	370	250	280	53
	75	NSR-H6075	420	170	400	290	290	68
	100	NSR-H6100	450	490	420	310	310	87
	150	NSR-H6150	480	500	440	330	310	105
3.3/6.6	200	NSR-H6200	510	520	490	350	330	135
	250	NSR-H6250	510	530	490	350	340	145
	300	NSR-H6300	510	540	490	350	350	154
	400	NSR-H6400	600	540	520	410	360	198
	500	NSR-H6500	600	560	520	410	380	220
	600	NSR-H6600	640	560	560	440	380	275
	750	NSR-H6750	640	570	560	440	390	289
	1000	NSR-H61000	640	600	750	440	390	448

### Discharge Coil of Specification

Location		·Indoor								
Max. Permissible Ove	rvoltage ·	110% of rate	ed vo <b>l</b> tage							
Discharge capao	.ity .	<ul> <li>Device Voltage decreases to Less then 50V in 5seconds when disconnected from power source.</li> </ul>								
Reference Stand	ard .	· KS C 4804								
Rated capacity	D N		D	imension[m	im]		Weight			
[kva] Part No.		W	D	Н	А	В	[kg]			
220-440v NSR-LDC		210	160	160	170	130	11			
3.3/6.6kv	NSR-HDC	340	220	180	260	150	29			



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