

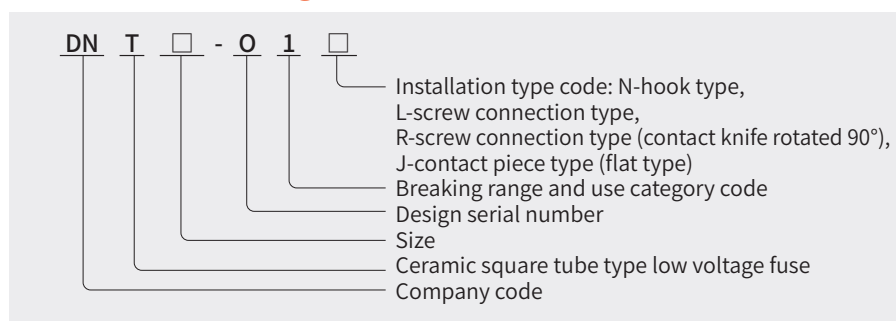
DNT□-O1□ Fuse for Semiconductor Equipment Protection



Product Profile

This series of fuses for semiconductor equipment protection has the characteristics of strong current limiting capability and high breaking capacity; It is suitable for rail transportation, electric vehicle new energy power stations, communications, and power industries. It can be used as short-circuit current and overload current protection for power systems, energy storage systems, inverters, semiconductor equipment components and equipment.

Model and meaning



Ordering Instructions

When ordering, users should provide the following information:

DNT series semiconductor equipment protection fuses should be specified Specification model, rated current, rated voltage and quantity.

For example:

DNT01-J1N-250A/690V AC 10 pieces

Normal working conditions

1. Ambient air temperature: The ambient air temperature T_a does not exceed 40°C, the average value measured in 24 hours does not exceed 35°C, and the average value measured in one year is lower than this value. The lowest ambient air temperature is -5°C.
2. Altitude: The altitude of the installation site does not exceed 2000m.
3. Atmospheric conditions: The air is clean, and its relative humidity does not exceed 50% at the highest temperature of 40°C. It can have a higher relative humidity at a lower temperature, for example: at 20°C, the relative humidity can reach 90%. Under these conditions, moderate condensation may occur occasionally due to temperature changes.

DNT1-01J

Fuse for Semiconductor Equipment Protection

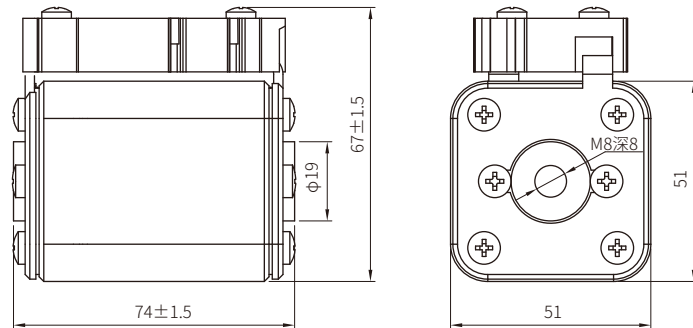


Rated Voltage	1000V AC
Rated Current	160-630A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

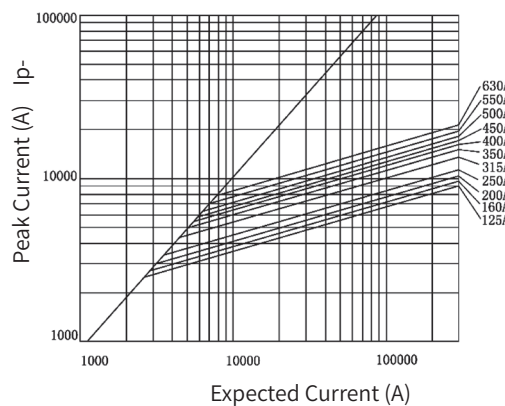
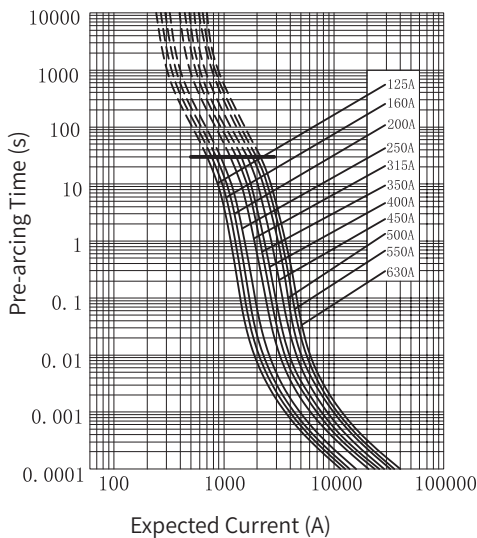
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT1-01J-160A/1000V AC	1	1000	160	2200	13500	7	23.5	40	573±3%	M10 21±1N.m
DNT1-01J-200A/1000V AC	1		200	4150	24500	8.5	26.5	45		
DNT1-01J-250A/1000V AC	1		250	7750	46000	10	31	52		
DNT1-01J-315A/1000V AC	1		315	16500	98500	11	35	60		
DNT1-01J-350A/1000V AC	1		350	21500	130000	12	38	65		
DNT1-01J-400A/1000V AC	1		400	31000	185000	13	41	70		
DNT1-01J-450A/1000V AC	1		450	44500	265000	15	47	80		
DNT1-01J-500A/1000V AC	1		500	63000	375000	16	50	85		
DNT1-01J-550A/1000V AC	1		550	84500	500000	17	53	90		
DNT1-01J-630A/1000V AC	1		630	125000	755000	19	58	98		

Overall dimensions (mm)



Characteristic curve



Usage and Maintenance

1. Installation, the size of the screw into the column does not exceed 8 mm (recommended 7mm)
2. When tightening the nut, keep the nut can't rotate;
3. It is recommended to use a stud installation, there is no recommended torque when the stud is screwed in, which is 1mm below the depth of the thread;
4. The nut tightening torque is 10±1N.m.

DNT1-O1N

Fuse for Semiconductor Equipment Protection

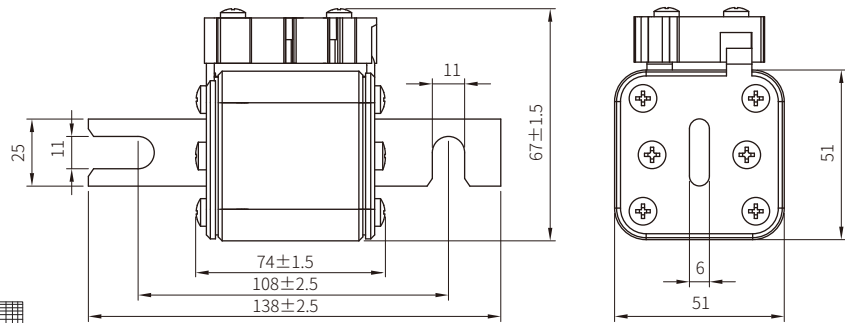


Rated Voltage	1000V AC
Rated Current	160-630A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

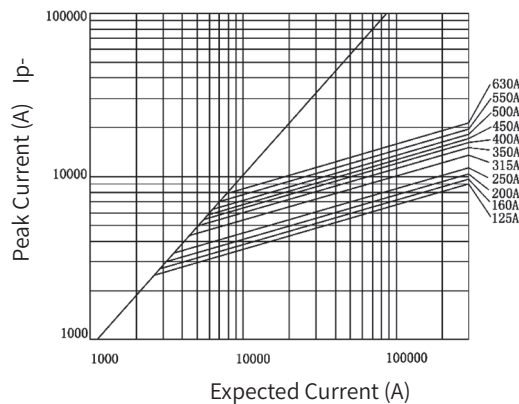
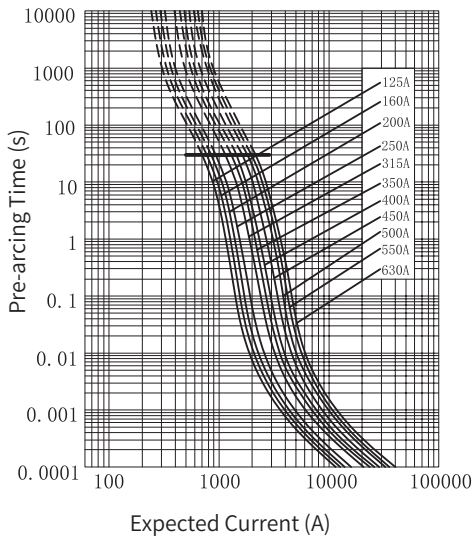
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT1-O1N-160A/1000V AC	1	1000	160	2200	13500	7	23.5	40	595±3%	M10 21±1N.m
DNT1-O1N-200A/1000V AC	1		200	4150	24500	8.5	26.5	45		
DNT1-O1N-250A/1000V AC	1		250	7750	46000	10	31	52		
DNT1-O1N-315A/1000V AC	1		315	16500	98500	11	35	60		
DNT1-O1N-350A/1000V AC	1		350	21500	130000	12	38	65		
DNT1-O1N-400A/1000V AC	1		400	31000	185000	13	41	70		
DNT1-O1N-450A/1000V AC	1		450	44500	265000	15	47	80		
DNT1-O1N-500A/1000V AC	1		500	63000	375000	16	50	85		
DNT1-O1N-550A/1000V AC	1		550	84500	500000	17	53	90		
DNT1-O1N-630A/1000V AC	1		630	125000	755000	19	58	98		

Overall dimensions (mm)



Characteristic curve



DNT1-O1R

Fuse for Semiconductor Equipment Protection

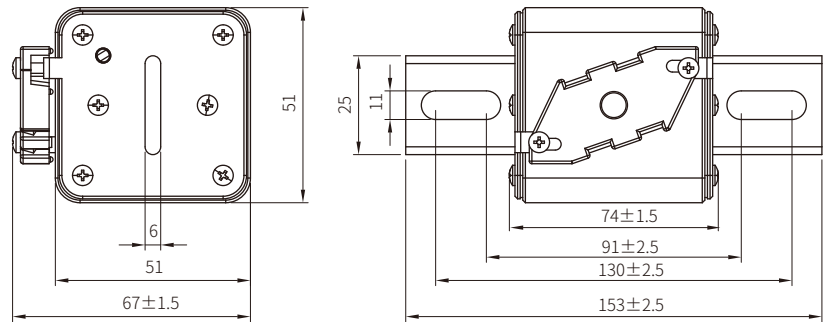


Rated Voltage	1000V AC
Rated Current	160-630A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

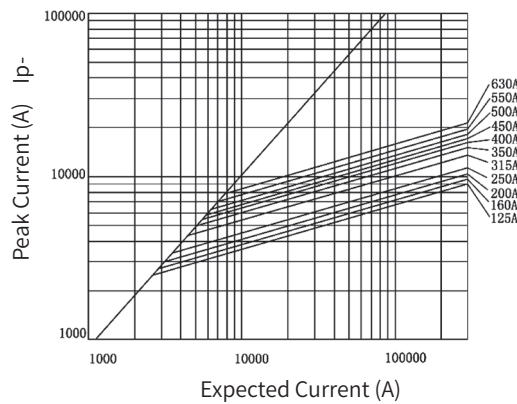
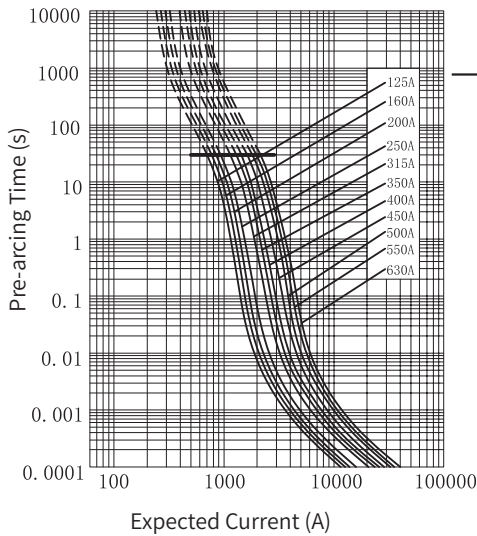
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT1-O1R-160A/1000V AC	1	1000	160	2200	13500	7	23.5	40	605±3%	M10 21±1N.m
DNT1-O1R-200A/1000V AC	1		200	4150	24500	8.5	26.5	45		
DNT1-O1R-250A/1000V AC	1		250	7750	46000	10	31	52		
DNT1-O1R-315A/1000V AC	1		315	16500	98500	11	35	60		
DNT1-O1R-350A/1000V AC	1		350	21500	130000	12	38	65		
DNT1-O1R-400A/1000V AC	1		400	31000	185000	13	41	70		
DNT1-O1R-450A/1000V AC	1		450	44500	265000	15	47	80		
DNT1-O1R-500A/1000V AC	1		500	63000	375000	16	50	85		
DNT1-O1R-550A/1000V AC	1		550	84500	500000	17	53	90		
DNT1-O1R-630A/1000V AC	1		630	125000	755000	19	58	98		

Overall dimensions (mm)



Characteristic curve



DNT1-O1L

Fuse for Semiconductor Equipment Protection

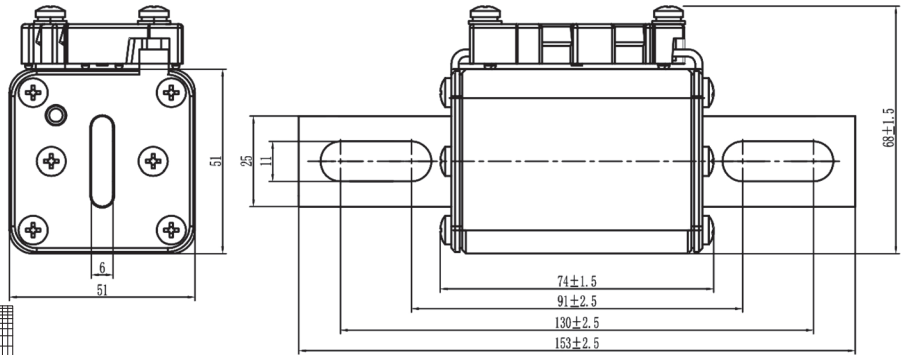


Rated Voltage	1000V AC
Rated Current	160-630A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

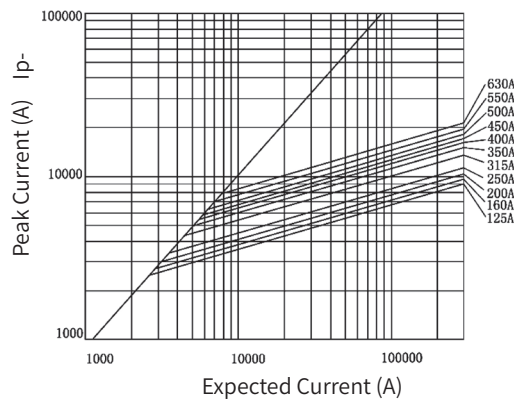
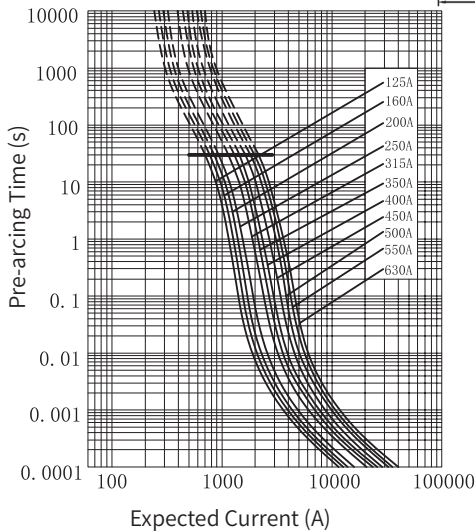
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT1-O1L-160A/1000V AC	1	1000	160	2200	13500	7	23.5	40	605±3%	M10 21±1N.m
DNT1-O1L-200A/1000V AC	1		200	4150	24500	8.5	26.5	45		
DNT1-O1L-250A/1000V AC	1		250	7750	46000	10	31	52		
DNT1-O1L-315A/1000V AC	1		315	16500	98500	11	35	60		
DNT1-O1L-350A/1000V AC	1		350	21500	130000	12	38	65		
DNT1-O1L-400A/1000V AC	1		400	31000	185000	13	41	70		
DNT1-O1L-450A/1000V AC	1		450	44500	265000	15	47	80		
DNT1-O1L-500A/1000V AC	1		500	63000	375000	16	50	85		
DNT1-O1L-550A/1000V AC	1		550	84500	500000	17	53	90		
DNT1-O1L-630A/1000V AC	1		630	125000	755000	19	58	98		

Overall dimensions (mm)



Characteristic curve



DNT2-01J

Fuse for Semiconductor Equipment Protection

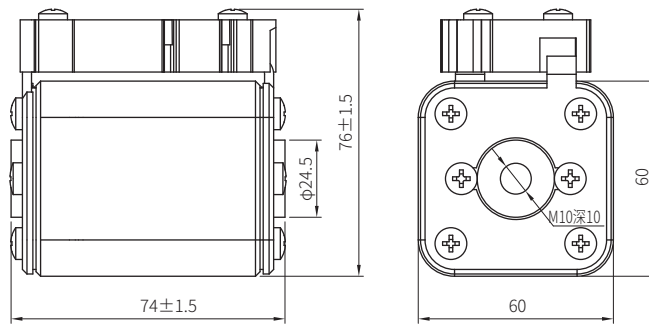


Rated Voltage	1000V AC
Rated Current	350-800A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

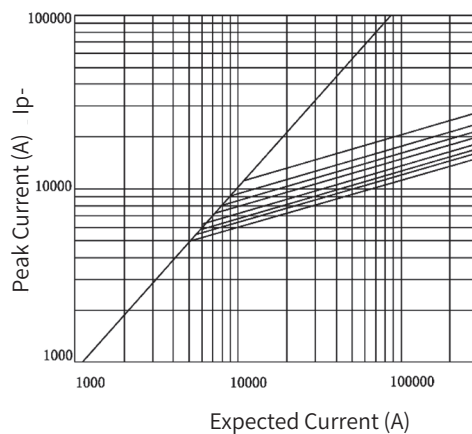
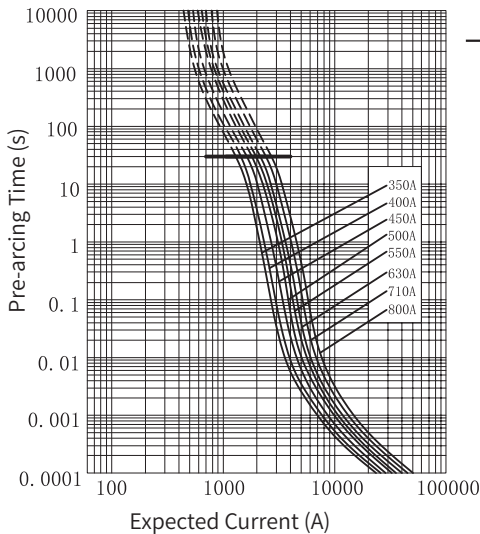
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT2-01J-350A/1000V AC	2	1000	350	16500	99000	15	47	80	913±3%	M10 21±1N.m
DNT2-01J-400A/1000V AC	2		400	26000	155000	16	50	85		
DNT2-01J-450A/1000V AC	2		450	35500	210000	17	53	90		
DNT2-01J-500A/1000V AC	2		500	49500	295000	18	56	95		
DNT2-01J-550A/1000V AC	2		550	66000	390000	19	59	100		
DNT2-01J-630A/1000V AC	2		630	93500	555000	21	65	110		
DNT2-01J-710A/1000V AC	2		710	130000	770000	22	68	115		
DNT2-01J-800A/1000V AC	2		800	195000	1200000	24	74	125		

Overall dimensions (mm)



Characteristic curve



Usage and Maintenance

- 1.Installation, the size of the screw into the column does not exceed 10mm (recommended 9mm)
- 2.When tightening the nut, keep the nut can 't rotate ;
- 3.It is recommended to use a stud installation, there is no recommended torque when the stud is screwed in, which is 1mm below the depth of the thread ;
- 4.The nut tightening torque is 21 ± 1N.m.

DNT2-O1N

Fuse for Semiconductor Equipment Protection

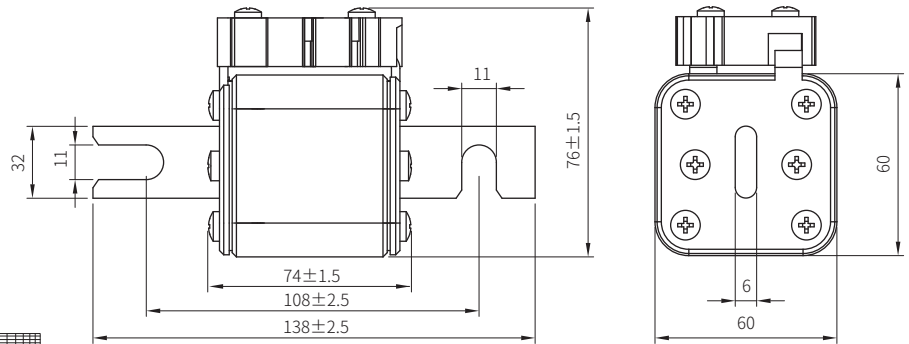


Rated Voltage	1000V AC
Rated Current	350-800A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

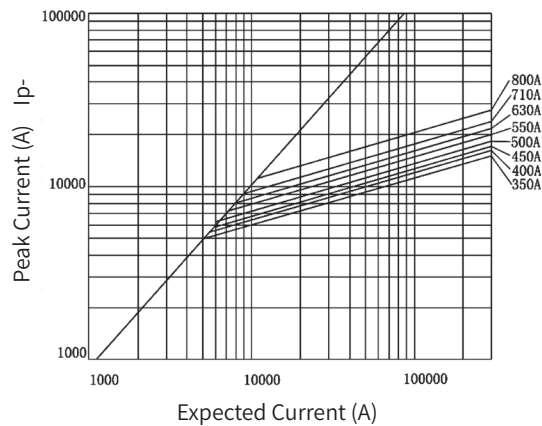
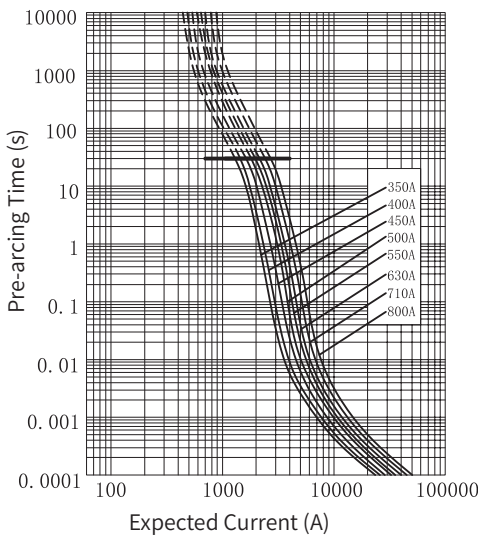
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT2-O1N-350A/1000V AC	2	1000	350	16500	99000	15	47	80	935±3%	M10 21±1N.m
DNT2-O1N-400A/1000V AC	2		400	26000	155000	16	50	85		
DNT2-O1N-450A/1000V AC	2		450	35500	210000	17	53	90		
DNT2-O1N-500A/1000V AC	2		500	49500	295000	18	56	95		
DNT2-O1N-550A/1000V AC	2		550	66000	390000	19	59	100		
DNT2-O1N-630A/1000V AC	2		630	93500	555000	21	65	110		
DNT2-O1N-710A/1000V AC	2		710	130000	770000	22	68	115		
DNT2-O1N-800A/1000V AC	2		800	195000	1200000	24	74	125		

Overall dimensions (mm)



Characteristic curve



DNT2-O1R

Fuse for Semiconductor Equipment Protection

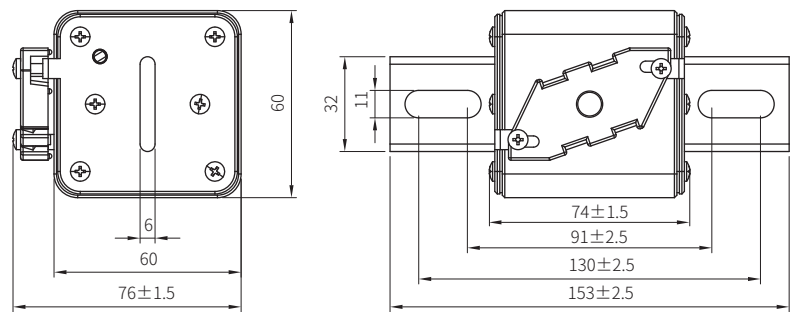


Rated Voltage	1000V AC
Rated Current	350-800A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

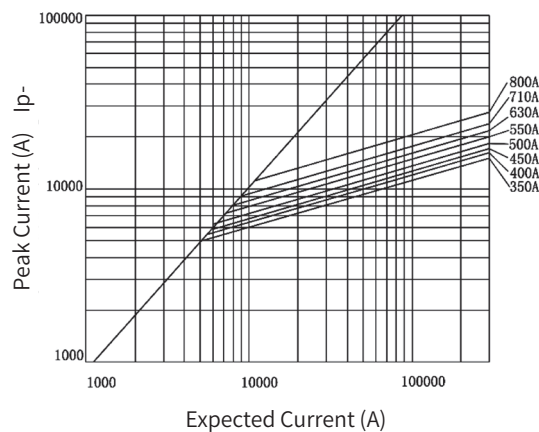
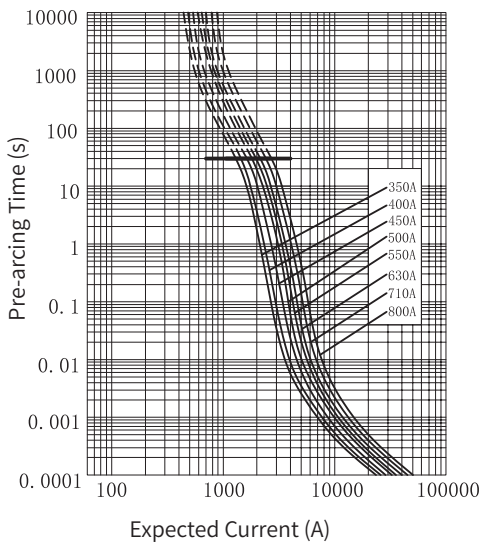
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT2-O1R-350A/1000V AC	2	1000	350	16500	99000	15	47	80	945±3%	M10 21±1N.m
DNT2-O1R-400A/1000V AC	2		400	26000	155000	16	50	85		
DNT2-O1R-450A/1000V AC	2		450	35500	210000	17	53	90		
DNT2-O1R-500A/1000V AC	2		500	49500	295000	18	56	95		
DNT2-O1R-550A/1000V AC	2		550	66000	390000	19	59	100		
DNT2-O1R-630A/1000V AC	2		630	93500	555000	21	65	110		
DNT2-O1R-710A/1000V AC	2		710	130000	770000	22	68	115		
DNT2-O1R-800A/1000V AC	2		800	195000	1200000	24	74	125		

Overall dimensions (mm)



Characteristic curve



DNT2-O1L

Fuse for Semiconductor Equipment Protection

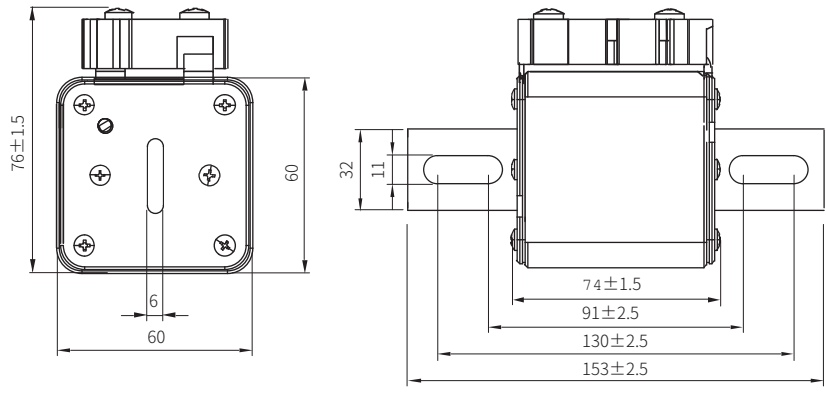


Rated Voltage	1000V AC
Rated Current	350-800A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

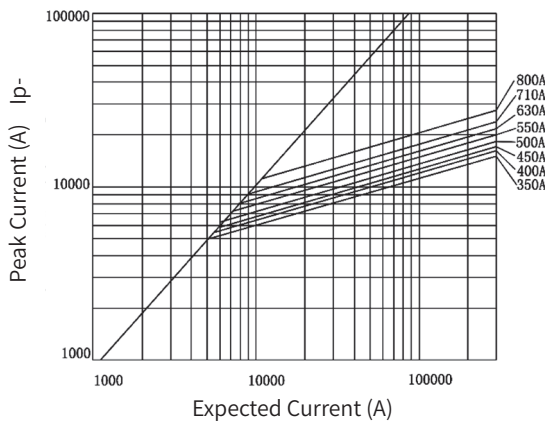
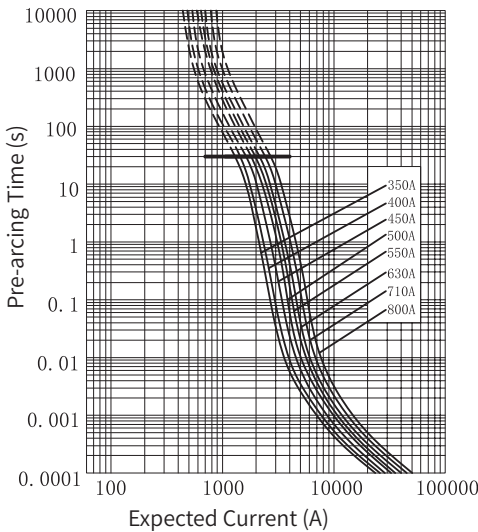
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT2-O1L-350A/1000V AC	2	1000	350	16500	99000	15	47	80	945±3%	M10 21±1N.m
DNT2-O1L-400A/1000V AC	2		400	26000	155000	16	50	85		
DNT2-O1L-450A/1000V AC	2		450	35500	210000	17	53	90		
DNT2-O1L-500A/1000V AC	2		500	49500	295000	18	56	95		
DNT2-O1L-550A/1000V AC	2		550	66000	390000	19	59	100		
DNT2-O1L-630A/1000V AC	2		630	93500	555000	21	65	110		
DNT2-O1L-710A/1000V AC	2		710	130000	770000	22	68	115		
DNT2-O1L-800A/1000V AC	2		800	195000	1200000	24	74	125		

Overall dimensions (mm)



Characteristic curve



DNT3-01J

Fuse for Semiconductor Equipment Protection

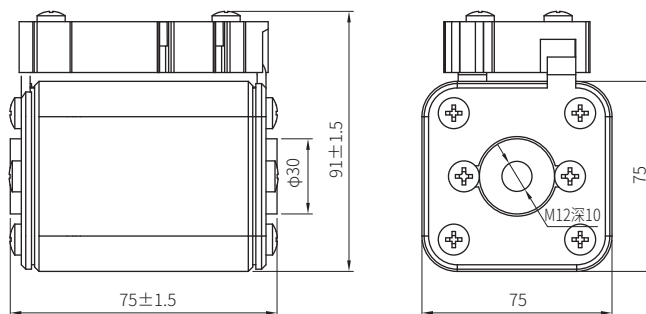


Rated Voltage	1000V AC
Rated Current	630-1250A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

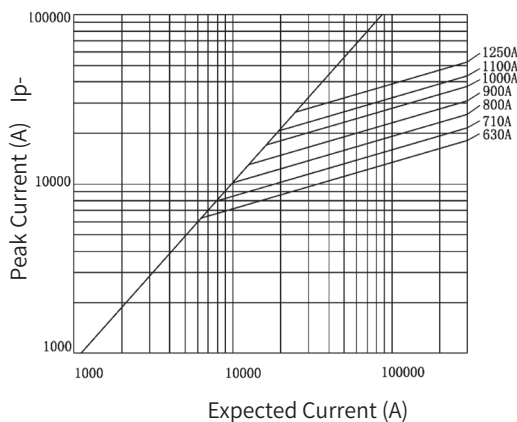
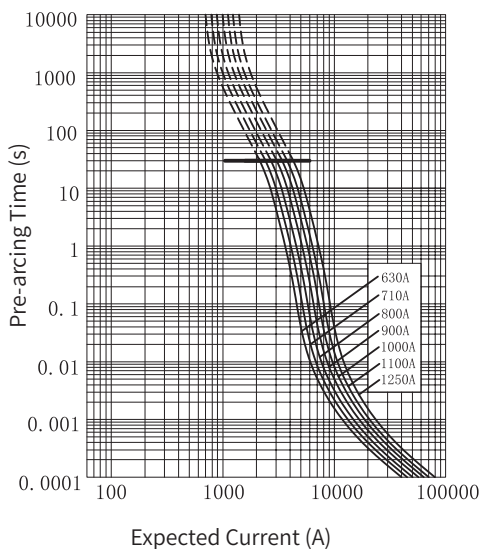
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT3-01J-630A/1000V AC	3	1000	630	83500	490000	23	81	120	1150±3%	M12 38±1N.m
DNT3-01J-710A/1000V AC	3		710	115000	700000	24	84	125		
DNT3-01J-800A/1000V AC	3		800	170000	1050000	26	80	135		
DNT3-01J-900A/1000V AC	3		900	250000	1500000	27	85	145		
DNT3-01J-1000A/1000V AC	3		1000	340000	2050000	28.5	88.5	150		
DNT3-01J-1100A/1000V AC	3		1100	460000	2750000	29	91	155		
DNT3-01J-1250A/1000V AC	3		1250	575000	3400000	33	103	175		

Overall dimensions (mm)



Characteristic curve



Usage and Maintenance

1. Installation, the size of the screw into the column does not exceed 11mm (recommended 10mm)
2. When tightening the nut, keep the nut can't rotate;
3. It is recommended to use a stud installation, there is no recommended torque when the stud is screwed in, which is 1mm below the depth of the thread;
4. The nut tightening torque is 38 ± 1N.m.

DNT3-O1N

Fuse for Semiconductor Equipment Protection

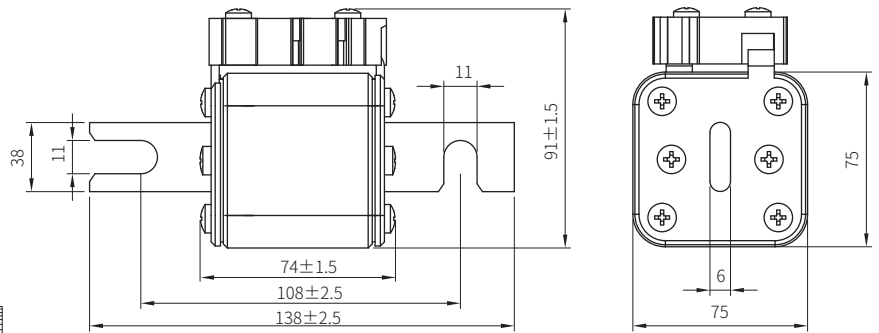


Rated Voltage	1000V AC
Rated Current	630-1250A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

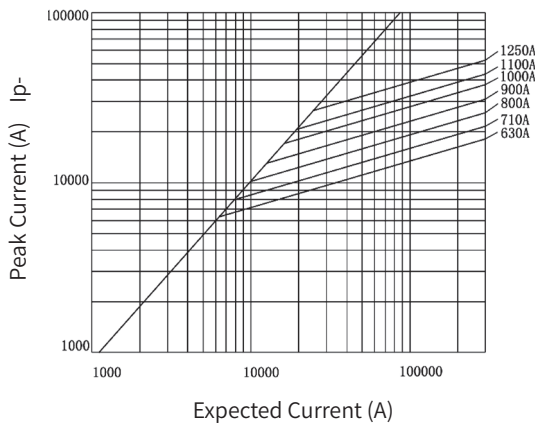
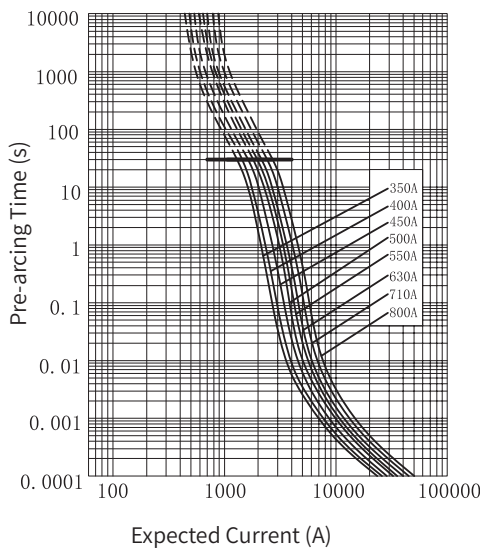
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT3-O1N-630A/1000V AC	3	1000	630	83500	490000	23	81	120	1230±3%	M10 21±1N.m
DNT3-O1N-710A/1000V AC	3		710	115000	700000	24	84	125		
DNT3-O1N-800A/1000V AC	3		800	170000	1050000	26	80	135		
DNT3-O1N-900A/1000V AC	3		900	250000	1500000	27	85	145		
DNT3-O1N-1000A/1000V AC	3		1000	340000	2050000	28.5	88.5	150		
DNT3-O1N-1100A/1000V AC	3		1100	460000	2750000	29	91	155		
DNT3-O1N-1250A/1000V AC	3		1250	575000	3400000	33	103	175		

Overall dimensions (mm)



Characteristic curve



DNT3-O1R

Fuse for Semiconductor Equipment Protection

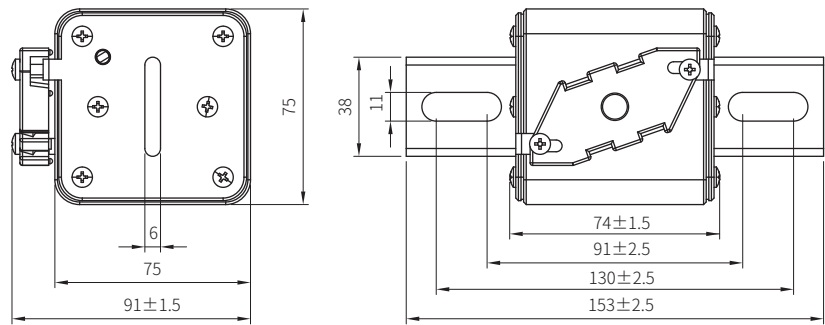


Rated Voltage	1000V AC
Rated Current	630-1250A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

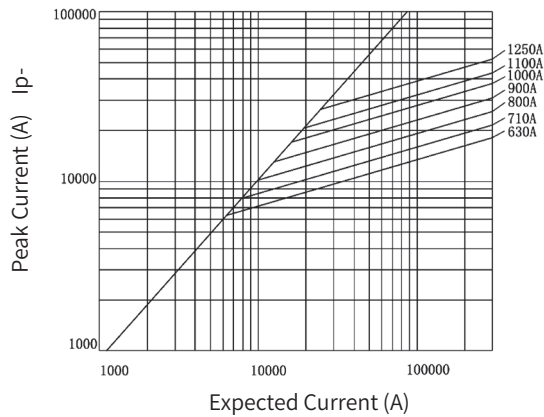
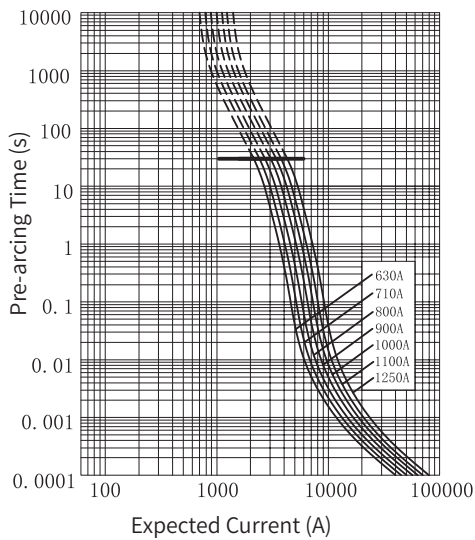
Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT3-O1R-630A/1000V AC	3	1000	630	83500	490000	23	81	120	1250±3%	M10 21±1N.m
DNT3-O1R-710A/1000V AC	3		710	115000	700000	24	84	125		
DNT3-O1R-800A/1000V AC	3		800	170000	1050000	26	80	135		
DNT3-O1R-900A/1000V AC	3		900	250000	1500000	27	85	145		
DNT3-O1R-1000A/1000V AC	3		1000	340000	2050000	28.5	88.5	150		
DNT3-O1R-1100A/1000V AC	3		1100	460000	2750000	29	91	155		
DNT3-O1R-1250A/1000V AC	3		1250	575000	3400000	33	103	175		

Overall dimensions (mm)



Characteristic curve



DNT3-O1L

Fuse for Semiconductor Equipment Protection

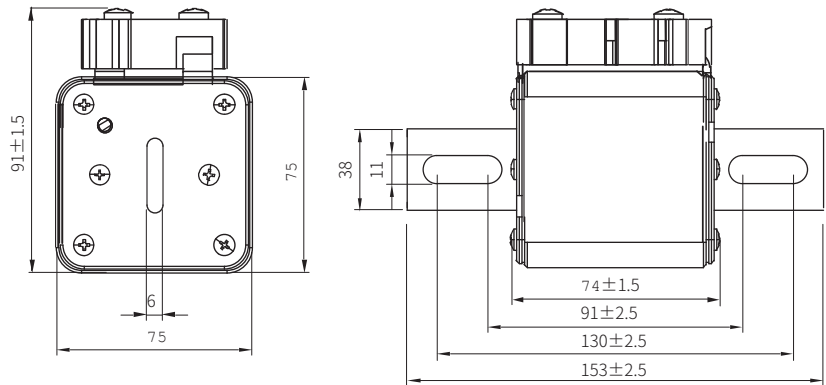


Rated Voltage	1000V AC
Rated Current	630-1250A
Protection Category	aR
Breaking Capacity	100kA
Reference Standard	GB/T 13539.4、IEC 60269-4
Certificates	CCC CE TUV

Product parameter

Model No.	Size	Ue (V)	In (A)	I ² t (A ² S)		0.5In Power dissipation(W)	0.8In Power dissipation(W)	1.0In Power dissipation(W)	Weight (g)	Mounting
				Pre-Arcing	Fusing					
DNT3-O1L-630A/1000V AC	3	1000	630	83500	490000	23	81	120	1250±3%	M10 21±1N.m
DNT3-O1L-710A/1000V AC	3		710	115000	700000	24	84	125		
DNT3-O1L-800A/1000V AC	3		800	170000	1050000	26	80	135		
DNT3-O1L-900A/1000V AC	3		900	250000	1500000	27	85	145		
DNT3-O1L-1000A/1000V AC	3		1000	340000	2050000	28.5	88.5	150		
DNT3-O1L-1100A/1000V AC	3		1100	460000	2750000	29	91	155		
DNT3-O1L-1250A/1000V AC	3		1250	575000	3400000	33	103	175		

Overall dimensions (mm)



Characteristic curve

