



December 1975
New Information and Supersedes 38-132
F WE A, Pages 1-4, dated May 1975, and
DS 38-122, pages 1-2, dated December, 1973
E, D, C/1981/DB

Indoor-Outdoor
Altitude 0-10,000 feet
24-468 KV

Station Arrester Type CPL Controlled Protective Level

Dimensions, Weights and Creep

These notes apply to all ratings

1. These arresters are designed for 10,000 feet. Increase clearances "S" and "T" 3% for each 1000 feet over 6000 feet.
2. When installed, exhaust ports should be directed away from adjacent apparatus. Ratings above 312 KV do not have directional venting.
3. Arrester assembly consists of arrester unit, line terminal assembly, ground terminal bracket, grading ring (if required), all hardware (excluding base mounting hardware), master nameplate, and line and ground connectors.
4. Arrester assemblies made up of more than one unit do not have interchangeable units.
5. Add 6.00 inches to "H" dimension when using an insulating post. Add 16.00 inches to "H" dimension when using an insulating base for ratings 60-468KV, and 14.75 inches for ratings 3-48KV.
6. Line and ground clamp type connectors suitable for copper or aluminum conductors with diameter of 0.25 to 0.75 inches. Line terminal connectors accommodate conductors with diameter of .255-.681 inches on porcelain top arresters.

Porcelain Top 3-24 KV

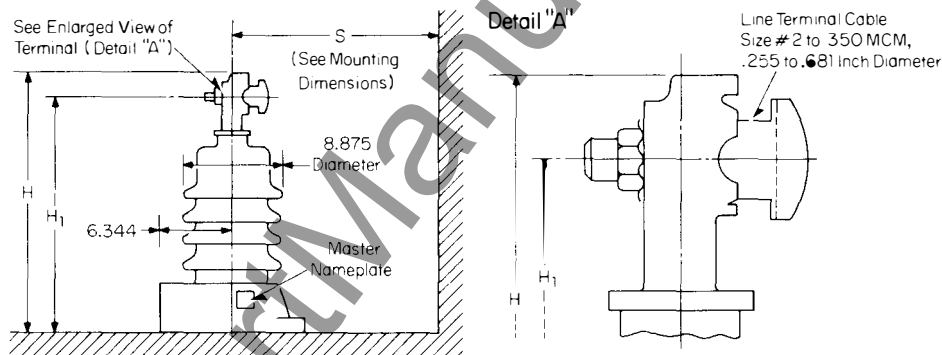
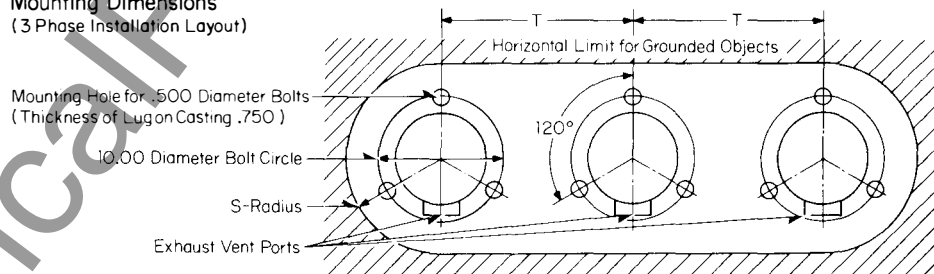


Figure 1 (O.D. 5057A93)

Mounting Dimensions (3 Phase Installation Layout)



Style	Kv Rating	Dimensions (Inches)					Weight (Lbs.)	Figure
		H	H ₁	S	T	Creep		
5556A60A03	3	14.75	13.81	6.5	10.5	15.3	38	1
5556A60A04	4.5	14.75	13.81	6.5	10.5	15.3	39	1
5556A60A06	6	18.75	17.81	6.5	10.5	20.9	44	1
5556A60A07	7.5	18.75	17.81	6.5	10.5	20.9	45	1
5556A60A09	9	18.75	17.81	6.5	10.5	20.9	46	1
5556A60A12	12	22.75	21.81	6.5	10.5	32.6	53	1
5556A60A15	15	22.75	21.81	7.0	10.5	32.6	54	1
5556A60A18	18	23.75	22.81	8.0	11.0	35.7	61	1
5556A60A21	21	28.75	27.81	9.0	12.0	44.5	71	1
5556A60A24	24	28.75	27.81	10.0	13.0	44.5	73	1



Metal Top 3-48 KV

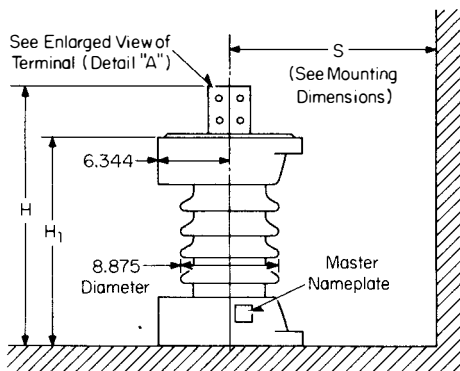


Figure 2 (O.D. 5057A90)

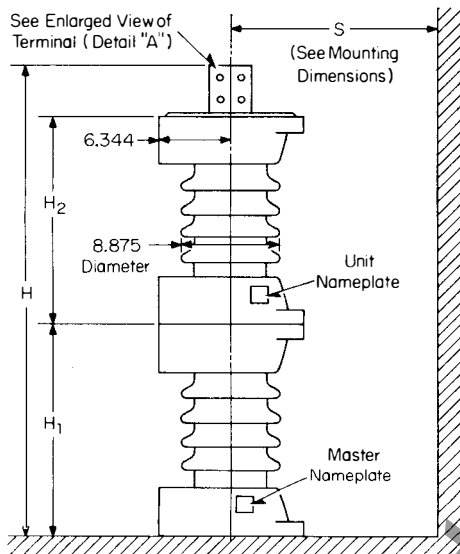
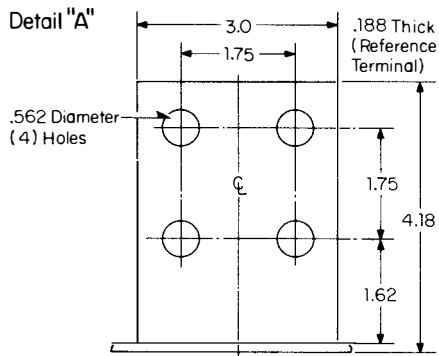
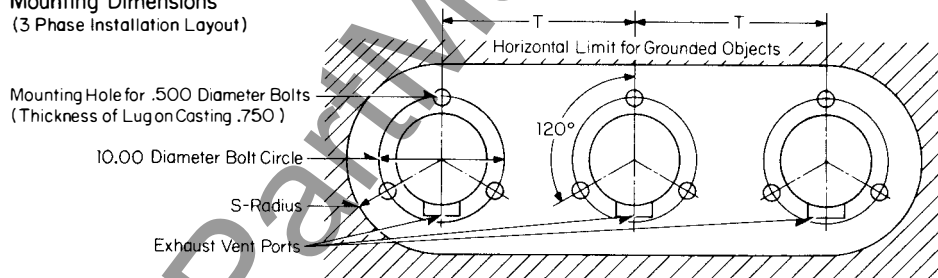


Figure 3 (O.D. 5057A91)

Mounting Dimensions (3 Phase Installation Layout)



Style	Kv Rating	Dimensions						Weight (Lbs.)	Figure
		H	H ₁	H ₂	S	T	Creep		
5556A61A03	3	18.94	14.75		8.5	13.5	12.9	57	2
5556A61A04	4.5	18.94	14.75		8.5	13.5	12.9	58	2
5556A61A06	6	18.94	14.75		8.5	13.5	12.9	59	2
5556A61A07	7.5	21.19	17.00		9.0	14.0	19.0	64	2
5556A61A09	9	21.19	17.00		9.0	14.0	19.0	65	2
5556A61A12	12	21.19	17.00		10.0	15.0	19.0	66	2
5556A61A15	15	22.44	18.25		11.0	16.0	22.0	70	2
5556A61A18	18	27.81	23.62		11.5	16.5	33.2	82	2
5556A61A21	21	27.81	23.62		12.0	17.0	33.2	83	2
5556A61A24	24	29.44	25.25		13.0	18.0	38.7	88	2
5556A61A27	27	33.44	29.25		14.0	19.0	48.2	97	2
5556A61A30	30	33.44	29.25		15.0	20.0	48.2	98	2
5556A61A36	36	38.44	34.25		16.0	21.0	59.1	111	2
5556A61A39	39	42.44	38.25		17.0	22.0	67.0	121	2
5556A61A45	45	53.06	23.62	25.25	18.0	23.0	71.3	166	3
5556A61A48	48	54.69	25.25	25.25	19.0	24.0	77.4	171	3



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Indoor-Outdoor
Altitude 0-10,000 feet
24-468 KV

Station Arrester Type CPL Controlled Protective Level

Metal Top 60-192 KV

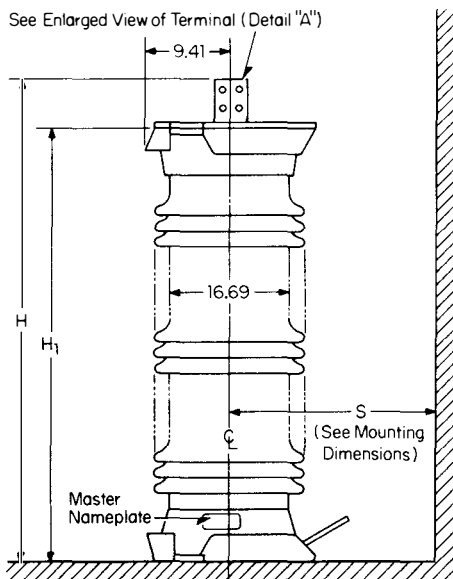


Figure 4 (O.D. 3895A82)

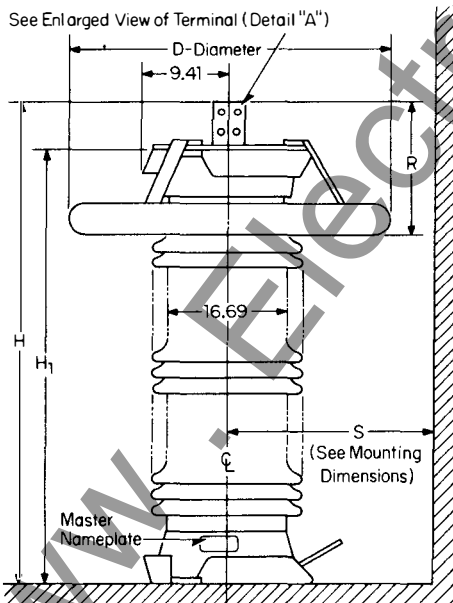
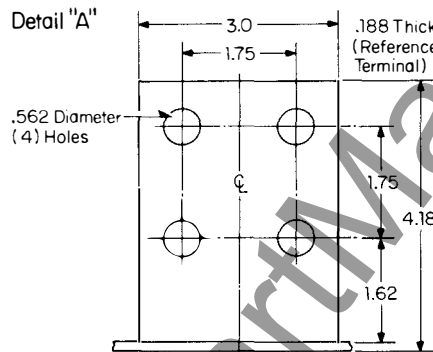


Figure 5 (O.D. 3895A84)



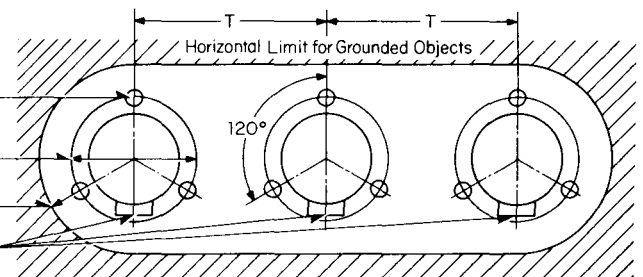
Mounting Dimensions (3 Phase Installation Layout)

Mounting Hole for .750 Diameter Bolts
(Thickness of Lug on Casting 1.00)

16.50 Diameter Bolt Circle

S-Radius

Exhaust Vent Ports

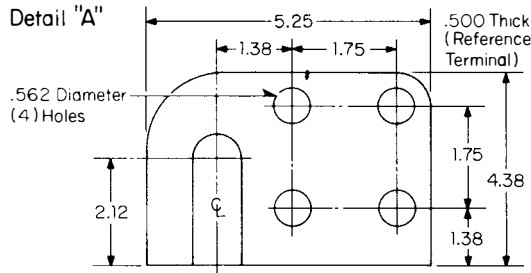
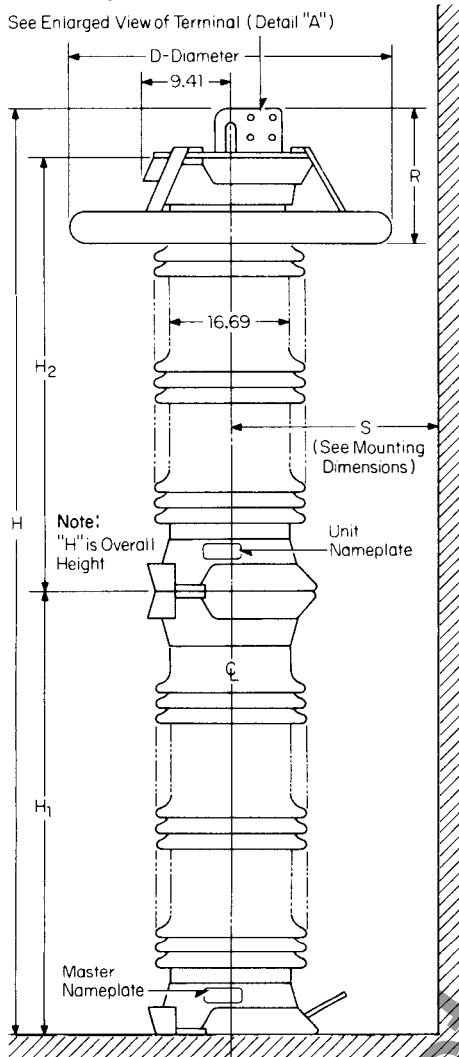


Style	KV Rating	Dimensions (Inches)							Weight (Lbs.)	Figure
		H	H ₁	D dia.	R	S	T	Creep		
3891A06A01	60	38.56	34.38			23	32	67.3	295	4
3891A07A21	72	42.62	38.45			27	36	79.9	341	4
3891A09A01	90	56.56	52.38			31	40	119.4	444	4
3891A09A61	96	56.56	52.38			33	42	119.4	450	4
3891A10A81	108	56.56	52.38			36	45	119.4	531	4
3891A12A01	120	65.22	61.03			39	48	146.5	548	4
3891A13A21	132	69.81	65.62			43	52	161.2	577	4
3891A14A41	144	73.73	69.56			47	56	174.2	623	4
3891A16A81	168	90.11	85.92	40.0	13.75	65	84	224.4	767	5
3891A18A01	180	90.11	85.92	40.0	13.75	68	87	224.4	768	5
3891A19A21	192	96.22	92.03	40.0	13.75	72	91	240.0	813	5

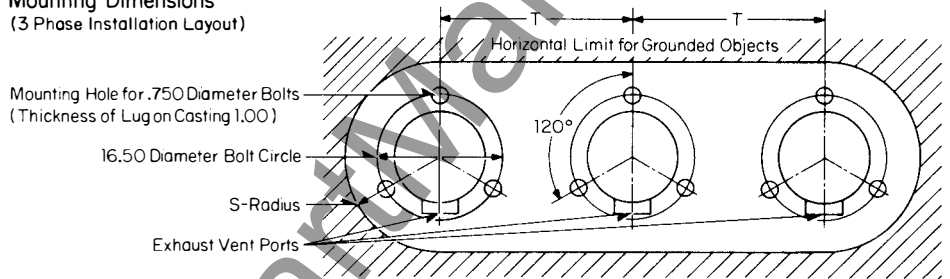


Metal Top 228-312 KV

See Enlarged View of Terminal (Detail "A")



Mounting Dimensions (3 Phase Installation Layout)



Style	Kv Rating	Dimensions (Inches)								Weight (Lbs.)	Figure
		H	H ₁	H ₂	D Dia.	R	S	T	Creep		
3891A22A82	228	126.44	61.03	61.03	40.0	13.62	83	102	293.0	1090	6
3891A24A02	240	126.44	61.03	61.03	40.0	13.62	87	106	293.0	1090	6
3891A25A82	258	135.62	65.62	65.62	40.0	13.62	93	112	322.4	1248	6
3891A26A42	264	135.62	65.62	65.62	40.0	13.62	95	114	322.4	1248	6
3891A27A62	276	143.62	69.62	69.62	40.0	13.62	99	118	348.4	1340	6
3891A28A82	288	143.62	69.62	69.62	40.0	13.62	104	124	348.4	1340	6
3891A30A02	300	156.12	75.88	75.88	40.0	13.62	107	127	373.6	1420	6
3891A31A22	312	156.12	75.88	75.88	40.0	13.62	110	130	373.6	1420	6

Figure 6 (O.D. 899A149)



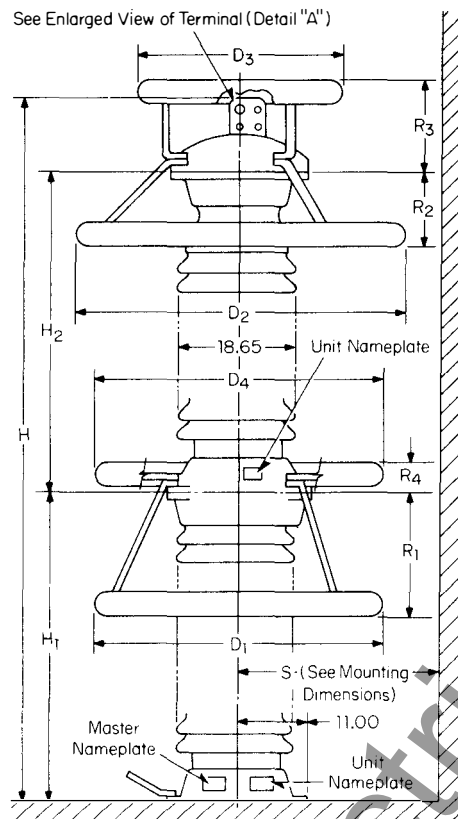
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Indoor-Outdoor
Altitude 0-10,000 feet
24-468 KV

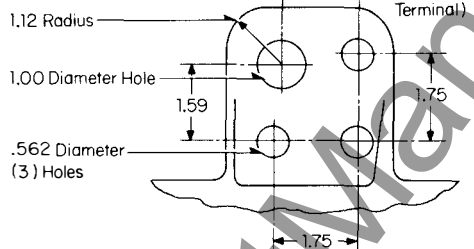
Station Arrester Type CPL Controlled Protective Level

Metal Top 396-468 KV

See Enlarged View of Terminal (Detail "A")



Detail "A"



Mounting Dimensions (3 Phase Installation Layout)

Mounting Hole for .750 Diameter Bolts
(Thickness of Lug on Casting .875)

20.375 Diameter Bolt Circle

S-Radius

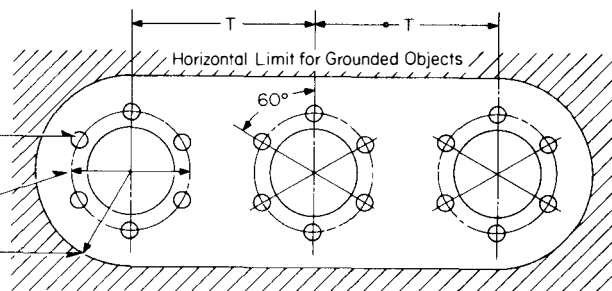
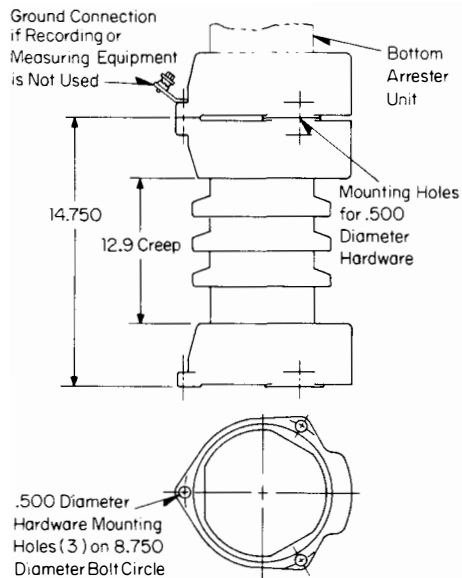


Figure 7 (O.D. 3889A14)

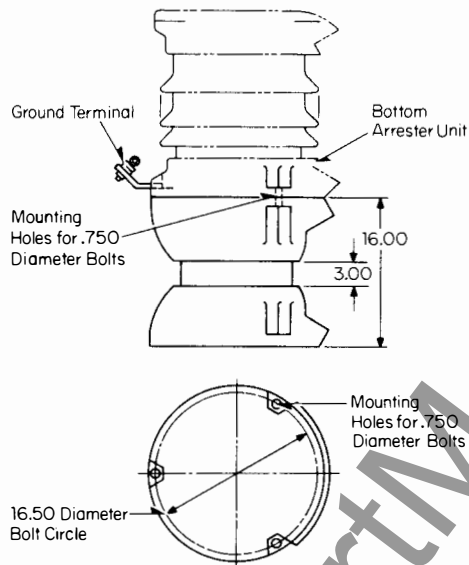
Style	Kv Rating	Dimensions (Inches)			Grading Rings								Clearances		Creep	Weight Lbs.	Figure
		Heights	H ₁	H ₂	D ₁	R ₁	D ₂	R ₂	D ₃	R ₃	D ₄	R ₄	S	T			
3891A39A62	396	204.17	98.43	98.43	50.00	24.88	55.00	11.38	30.75	12.88	50.00	3.00	139.00	166.00	497.50	2500	7
3891A42A02	420	212.67	102.68	102.68	50.00	24.88	55.00	11.38	30.75	12.88	50.00	3.00	147.00	174.00	519.50	2600	7
3891A44A42	444	230.67	111.68	111.68	50.00	24.88	55.00	11.38	30.75	12.88	50.00	3.00	153.00	185.00	576.52	2800	7
3891A46A82	468	230.67	111.68	111.68	50.00	24.88	55.00	11.38	30.75	12.88	50.00	3.00	161.00	188.00	576.52	2800	7



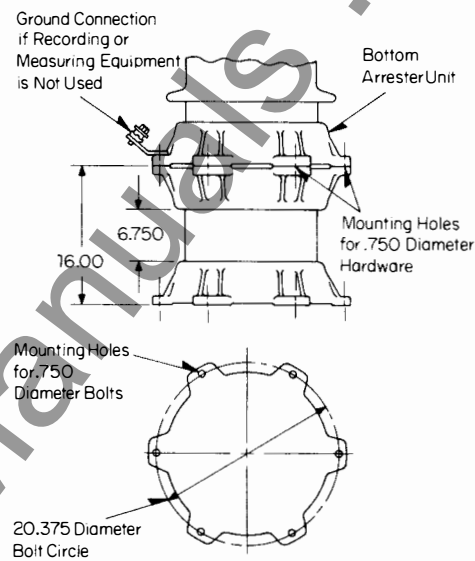
CPL Arrestor Insulating Bases and Posts



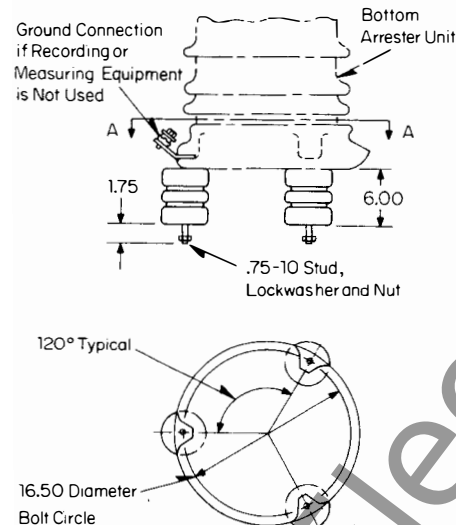
Gray S #5559A88A01 O.D. 5559A83
Figure 8. Insulating Base (3-48 Kv)



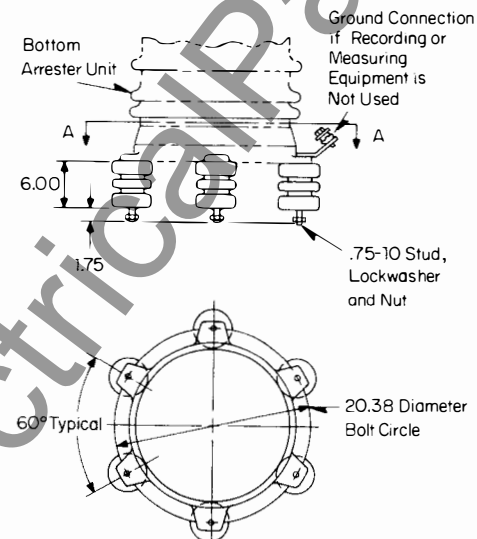
Gray S #898A945A01 O.D. 898A053
Figure 9. Insulating Base (60-312 Kv)



Gray S #5039A06A01 O.D. 5039A16
Figure 10. Insulating Base (396-468 Kv)



Gray S #898A935A02 O.D. 5053A97
Figure 11. Insulating Posts (60-312 Kv)



Gray S #898A935A03 O.D. 5055A03
Figure 12. Insulating Posts (396-468 Kv)

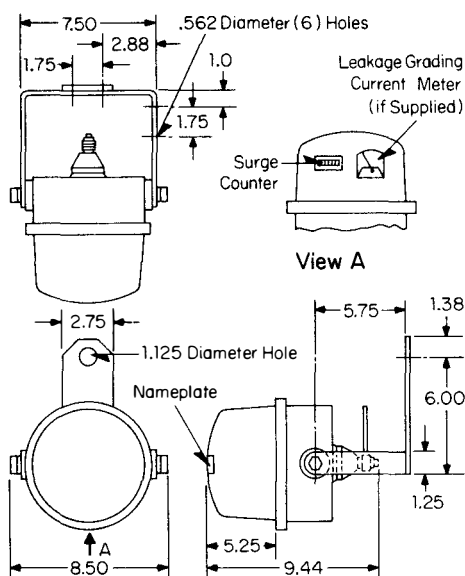


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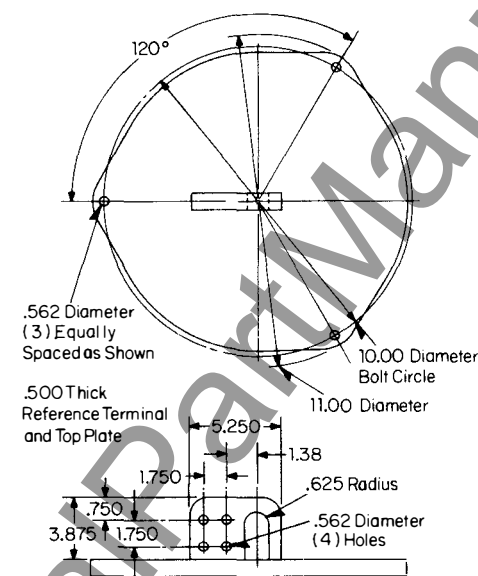
Indoor-Outdoor
Altitude 0-10,000 feet
24-468 KV

Station Arrestor Type CPL Controlled Protective Level

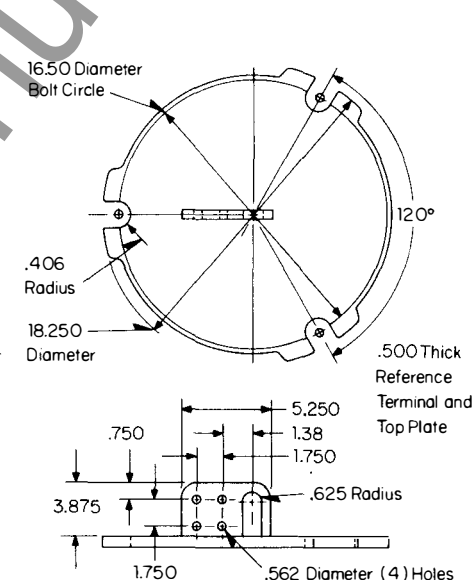
CPL Arrestor Accessories and Brackets



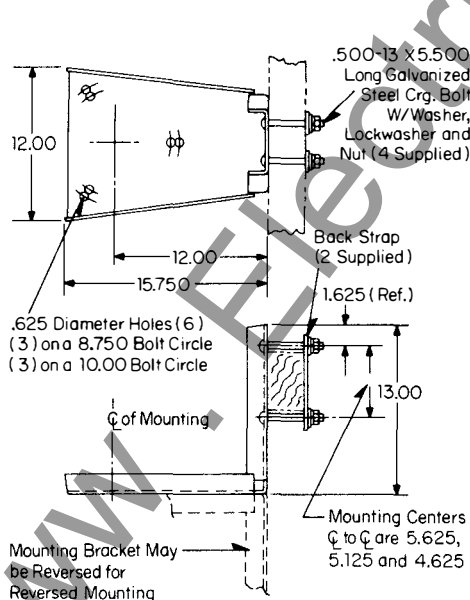
S * 633A700A01 w/o Leakage Current Indicator
O.D. 3865A30
S * 633A797A01 with Leakage Current Indicator
O.D. 3865A25
Figure 13. Discharge Counters (3-468 Kv)



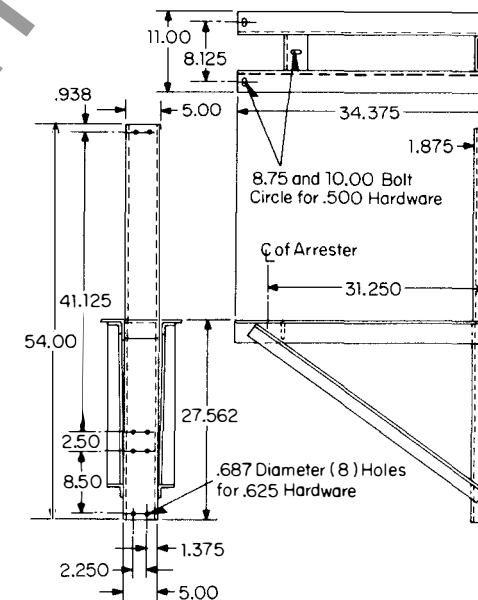
S * 634A088A01 O.D. 5570A50
Figure 14. Line Terminal for Suspension Mounting (3-48 Kv)



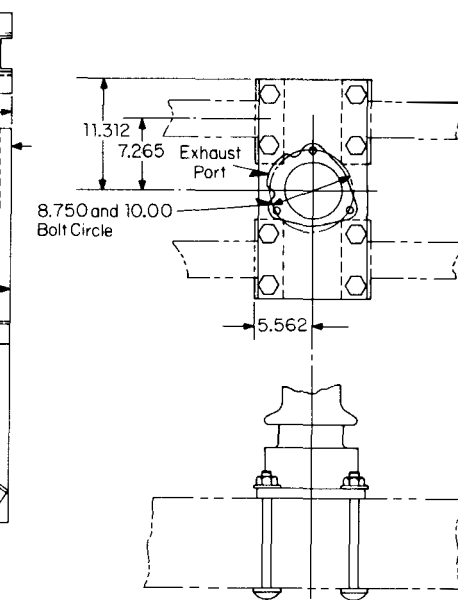
S * 6462A99A01 O.D. 5038A94
Figure 15. Line Terminal for Suspension Mounting (60-312 Kv)



S * 279C251A08 O.D. 6463A09
Figure 16. Single Crossarm Reversible Bracket (3-39 Kv)



S * 279C251A10 O.D. 6463A11
Figure 17. Wall Mounting Bracket (3-48 Kv)



S * 279C251A09 O.D. 6463A10
Figure 18. Baseplate (3-48 Kv)

Technical drawing of the mounting bracket assembly, showing side and front views with dimensions and callouts.

Dimensions:

- 12.00 (Height of the top flange)
- 22.00 (Distance from the center of the mounting holes to the back of the bracket)
- 25.750 (Total width of the bracket)
- 1.625 (Ref.) (Thickness of the mounting plate)
- 39.750 (Total height of the mounting plate)

Callouts and Notes:

- .500-13 X 5.500 Long Galvanized Steel Crg. Bolt W/ Washer, Lockwasher and Nut (4 Supplied)
- .625 Diameter Holes (6) (3) on a 8.750 Bolt Circle (3) on a 10.00 Bolt Circle
- Mounting Bracket May be Reversed for Reversed Mounting
- Back Strap (2 Supplied)
- See N1 (Mounting Centers of Bolts are 4.875, 5.750, 6.125 and 7.00 Inches)
- See N2 (Mounting Centers of Bolts Ranges from 16.00 to 18.750)
- Q of Mounting (Center of Mounting)

S # 279C251A07 O.D. 6463A08
Figure 20. Double Crossarm Mounting Bracket

38-140 P WE A
38-141 D WE A
38-146 T WE A

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Distribution Apparatus Division
Bloomington, Indiana 47401