



May 1975

Supersedes 38-132 F WE A, Pages 1-2,
dated January 1975
E, D, C/1981/DB

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

Station Arrester CPL Controlled Protective Level

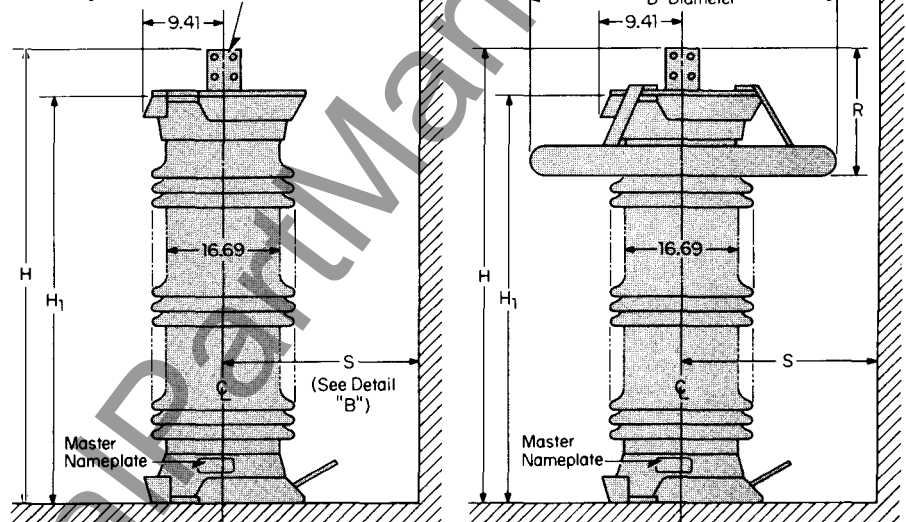
Dimensions, Weights and Creep

These notes apply to all ratings.

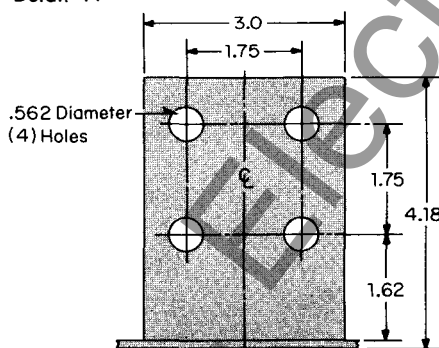
1. These arresters are designed for 10,000 feet. Increase clearances "S" and "T" 3% for each 1000 feet over 6000 feet.
2. When installed, exhaust ports should be directed away from adjacent apparatus. Ratings above 312 KV do not have directional venting.
3. Arrester assembly consists of arrester unit,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

Single Unit Poles

See Enlarged View of Terminal (Detail "A")



Detail "A"



Style No. ②	KV Rating	Dimensions (Inches)								Creep	Weight (Lbs.)	Fig.
		H ₁	H	D dia. ③	R ③	S	T ①					
5040A02A41	24	22.75	27.12			15	24		24.8	220		1
5040A03A61	36	30.11	34.50			18	27		51.1	270		1
5040A04A81	48	30.11	34.50			21	30		51.1	275		1
3891A06A01	60	35.38	38.75			23	32		67.3	327		1
3891A07A21	72	38.45	42.83			27	36		79.9	373		1
3891A09A01	90	52.38	56.75			31	40		119.4	476		1
3891A09A61	96	52.38	56.75			33	42		119.4	482		1
3891A10A81	108	52.38	56.75			36	45		119.4	500		1
3891A12A01	120	61.03	65.41			39	48		146.5	580		1
3891A13A21	132	65.62	70.00			43	52		161.2	609		1
3891A14A41	144	69.56	73.94			47	56		174.2	655		1
3891A16A81	168	85.92	90.30	40.0	14.12	65	84		224.4	799		2
3891A18A01	180	85.92	90.30	40.0	14.12	68	87		224.4	800		2
3891A19A21	192	92.03	96.41	40.0	14.12	72	91		240.0	845		2

① See 3Ø Installation Layout, Page 2.

② For Brown Porcelain contact Westinghouse.

③ Grading Ring not used below 168 Kv rating.

Two Unit Poles

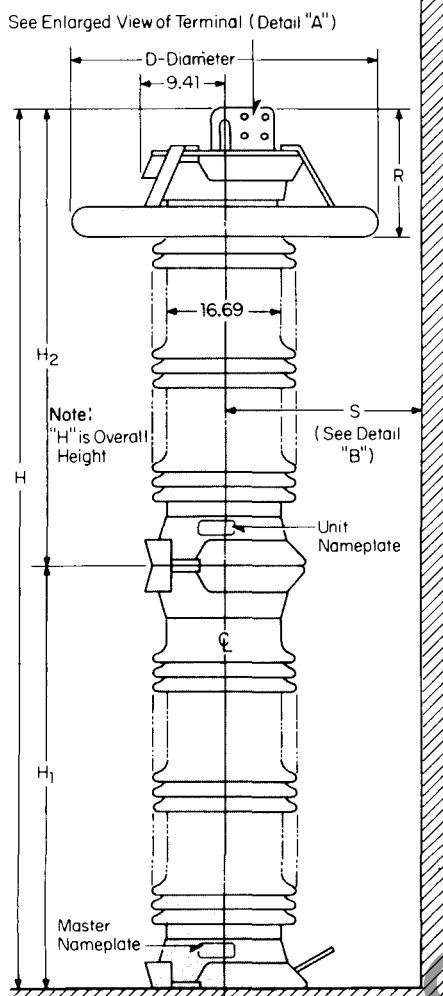
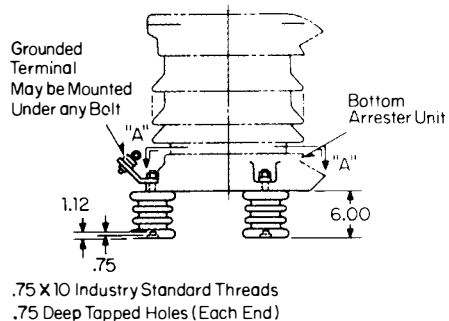


Figure 3

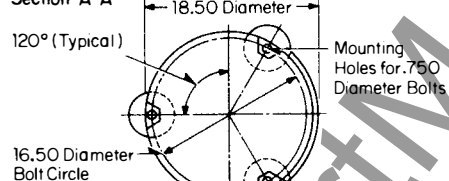
Dimensions (Inches)

Style No.	Kv Rating	Dimensions (Inches)			D Dia.	R	S	T	Creep	Weight (Lbs.)	Fig.
		H ₁	H ₂	H							
3891A22A82	228	61.03	61.03	126.44	40.0	14.12	83	102	293.0	1090	3
3891A24A02	240	61.03	61.03	126.44	40.0	14.12	87	106	293.0	1090	3
3891A25A82	258	65.62	65.62	135.62	40.0	14.12	93	112	322.4	1248	3
3891A26A42	264	65.62	65.62	135.62	40.0	14.12	95	114	322.4	1248	3
3891A27A62	276	69.56	69.56	143.62	40.0	14.12	99	118	348.4	1340	3
3891A28A82	288	69.56	69.56	143.62	40.0	14.12	104	124	348.4	1340	3
3891A30A02	300	75.88	75.88	156.12	40.0	14.12	107	127	373.6	1420	3
3891A31A22	312	75.88	75.88	156.12	40.0	14.12	110	130	373.6	1420	3

Figure 4. Insulating Post

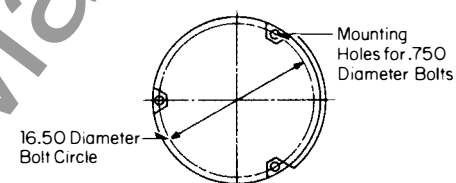
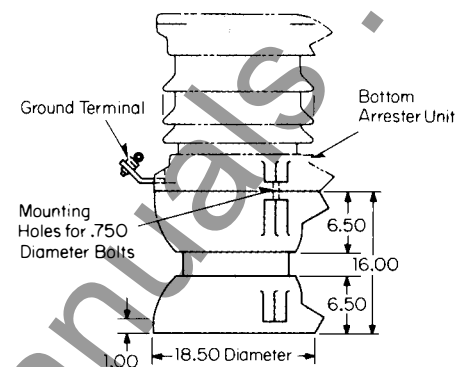


Section "A-A"



Brown - S# 897A935A01
Gray - S# 898A935A01

Figure 5. Insulating Base



Brown - S# 897A945A01
Gray - S# 898A945A01

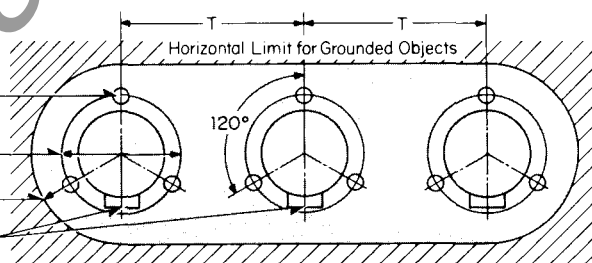
Mounting Dimensions
(3 Phase Installation Layout)

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

16.50 Diameter Bolt Circle

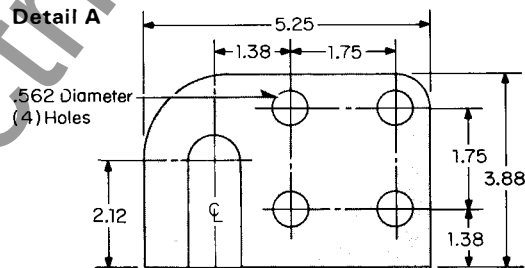
S-Radius

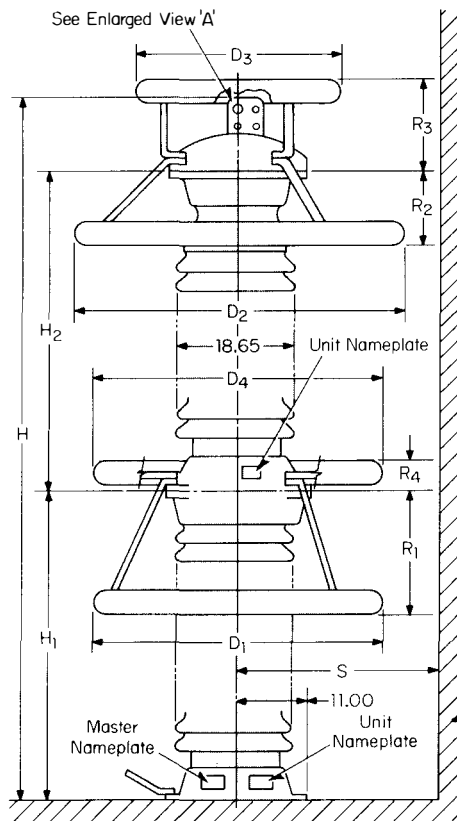
Exhaust Vent Ports



Detail B

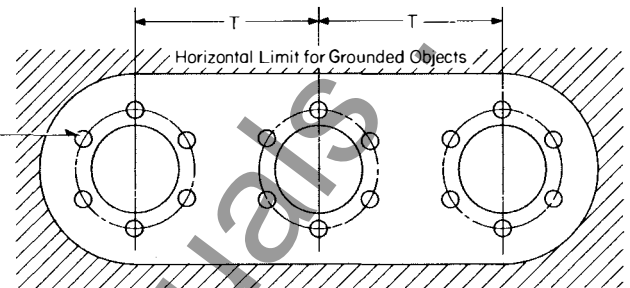
Detail A



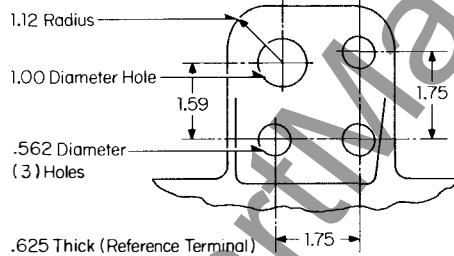


Mounting Dimensions
(3 Phase Installation Layout)

Mounting Hole for .750 Diameter (6)
Bolts Equally Spaced on 20.375
Diameter Bolt Circle
(Casting Lug .875 Thick)



View 'A'



Further Information
Price List 38-130
Descriptive Bulletin 38-131
Design Test Report File 38-134
Performance Data 38-136
Instruction Leaflet 38-131-3
Blitzwatcher™ Monitoring Device PL 38-160
and DB 38-160

Figure 6

Style	Dimensions in Inches																
	Kv Rating	Weight Lbs.	Min Creep	Heights			Clearances		Grading Rings								
				H	H ₁	H ₂	S	T	D ₁	R ₁	D ₂	R ₂	D ₃	R ₃	D ₄	R ₄	Fig.
3891A39A62	396	2500	497.50	204.17	98.43	98.43	139.00	166.00	50.00	24.88	55.00	11.38	30.75	12.88	50.00	3.00	6
3891A42A02	420	2600	519.50	212.67	102.68	102.68	147.00	174.00	50.00	24.88	55.00	11.38	30.75	12.88	50.00	3.00	6
3891A44A42	444	2800	576.52	230.67	111.68	111.68	153.00	185.00	50.00	24.88	55.00	11.38	30.75	12.88	50.00	3.00	6
3891A46A82	468	2800	576.52	230.67	111.68	111.68	161.00	188.00	50.00	24.88	55.00	11.38	30.75	12.88	50.00	3.00	6



Westinghouse



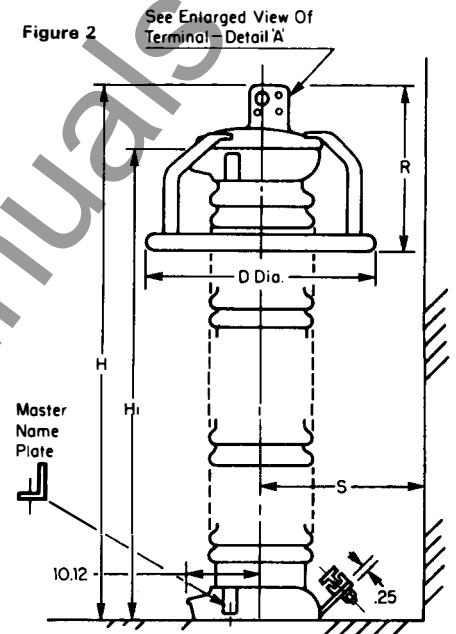
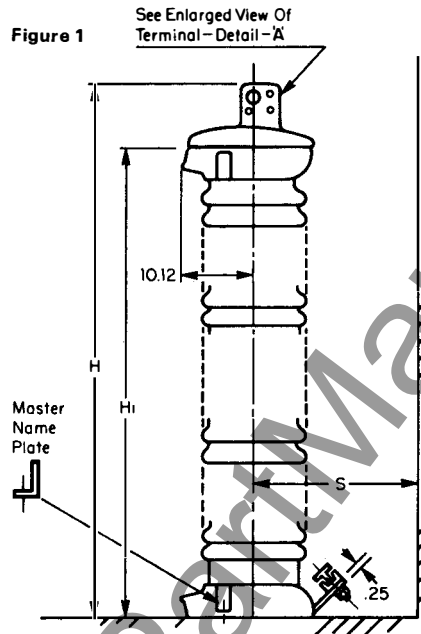
Station Arrestor CPL Controlled Protective Level

Indoor-Outdoor
Altitude 0-10,000 feet
60-312 KV

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.
3. Arrester assembly consists of arrester unit, line terminal casting, ground terminal bracket, grading ring (if required), all hardware (excluding base mounting hardware), master nameplate, and line and ground double eyebolt connectors.
4. Add 6.00 inches to "H" dimension when using an insulating post. Add 16.00 inches to "H" dimension when using an insulating base.
5. Line and ground double eyebolt connectors suitable for copper or aluminum conductors with diameter of 0.25 to 0.75 inches.



Dimensions (Inches)

Style No.② Gray	Kv Rating	H ₁	H	S①	T①	Min. Creep Inches	Net Weight (Lbs.)	Fig.
898A060A01	60	39.62	45.42	23.00	32.00	72.38	358	1
898A072A01	72	39.62	45.42	27.00	36.00	72.38	367	1
898A090A01	90	52.38	58.18	31.00	40.00	108.26	461	1
898A096A01	96	52.38	58.18	33.00	42.00	108.26	466	1
898A108A01	108	61.38	67.18	36.00	45.00	141.67	575	1
898A120A01	120	61.38	67.18	39.00	48.00	141.67	585	1
898A132A01	132	69.55	75.35	43.00	52.00	172.69	681	1
898A144A01	144	69.55	75.35	47.00	56.00	172.69	690	1

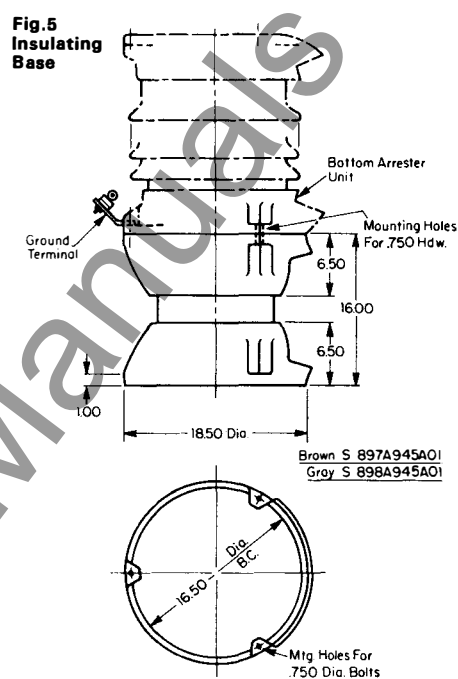
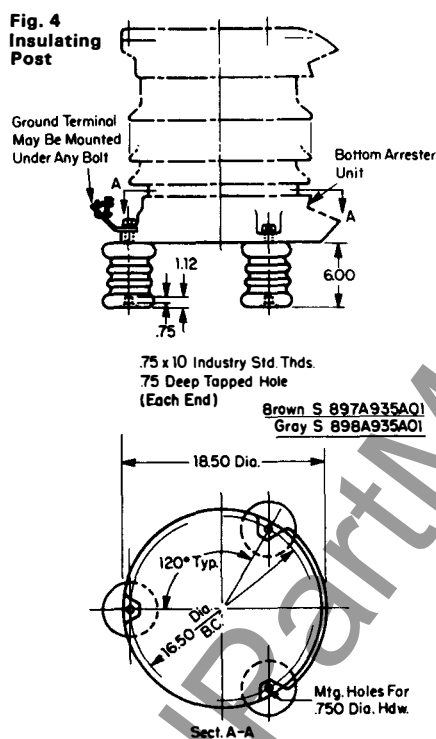
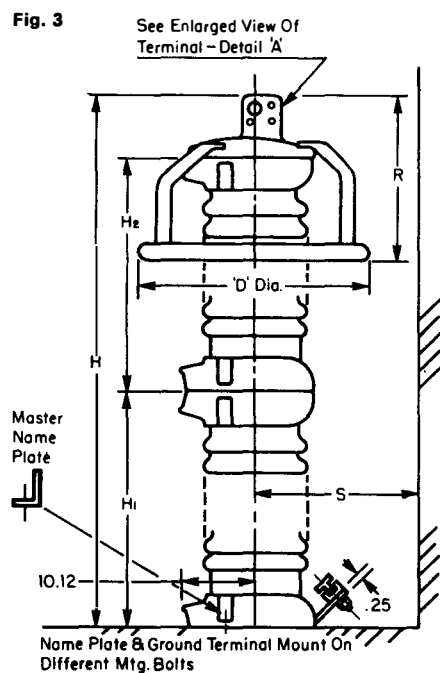
Style Gray	Kv Rating	H ₁	H	D DIA.	R	S①	T①	Min. Creep Inches	Net Weight (Lbs.)	Fig.
898A168A01	168	92.02	96.26	40.00	16.94	65.00	83.00	239.62	875	2
898A180A01	180	92.02	96.26	40.00	22.92	68.00	87.00	239.62	885	2
898A192A01	192	92.02	96.26	40.00	22.92	72.00	91.00	239.62	900	2

① See 3Ø Installation Layout

② For Brown Porcelain contact Westinghouse

Station Arrester CPL Controlled Protective Level

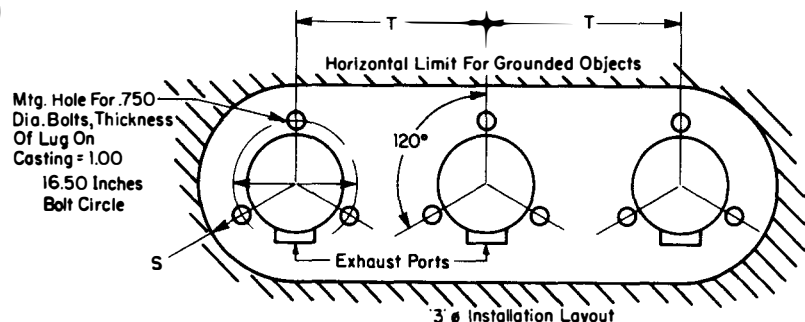
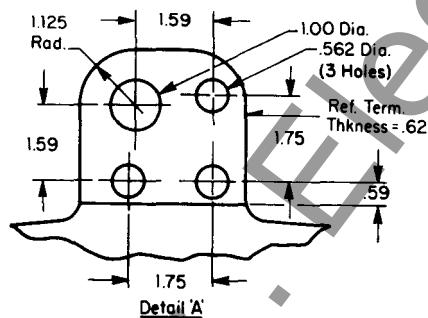
Indoor-Outdoor
Altitude 0-10,000 feet
60-312 KV



Dimensions (Inches)

Style Gray	Kv Rating	H ₁	H ₂	H	D Dia.	R	S	T	Min Creep Inches	Net Wt (Lbs.)	Fig
898A204A02	204	39.62	69.55	114.97	50.00	22.92	106.00	132.00	245.07	1123	3
898A216A02	216	52.38	61.38	119.56	50.00	22.92	108.00	136.00	249.93	1127	3
898A228A02	228	52.38	69.55	127.73	50.00	32.09	112.00	140.00	280.95	1223	3
898A240A02	240	61.38	61.38	128.56	50.00	32.09	116.00	144.00	283.00	1245	3
898A258A02	258	61.38	69.55	136.73	50.00	32.09	122.00	150.00	314.36	1350	3
898A264A02	264	61.38	69.55	136.73	50.00	32.09	124.00	152.00	314.36	1350	3
898A276A02	276	69.55	69.55	144.90	50.00	32.09	128.00	158.00	345.38	1446	3
898A288A02	288	69.55	69.55	144.90	50.00	32.09	132.00	160.00	345.38	1455	3
898A300A02	300	61.38	92.02	159.21	50.00	41.09	134.00	164.00	381.65	1496	3
898A312A02	312	69.55	92.02	167.37	67.00	50.06	146.00	186.00	412.31	1593	3

① For Brown Porcelain contact Westinghouse



Further Information:

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