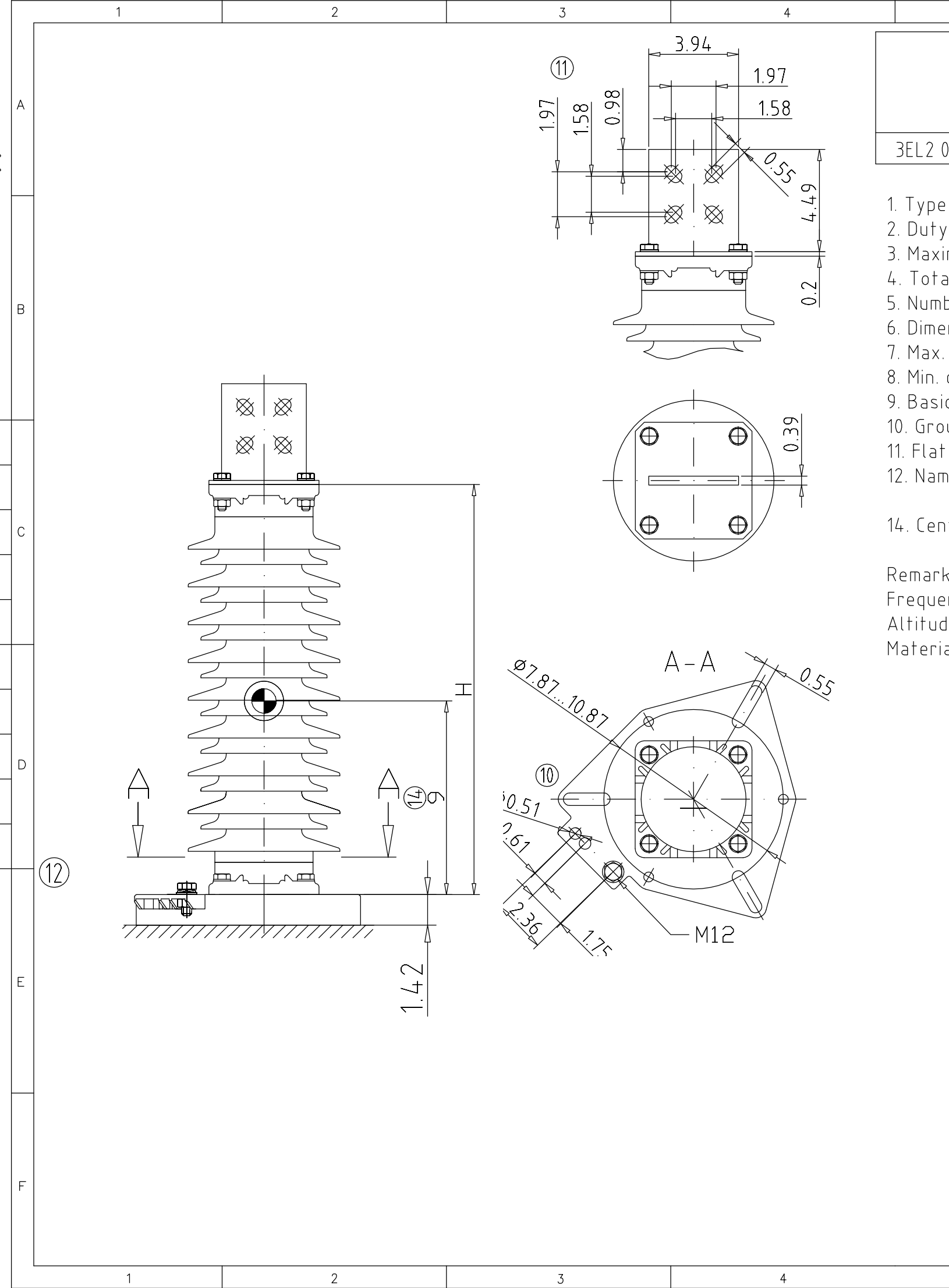


Arrester model: 3EL2 010-2PC31-4NH5		Cage design 
System Information		
Maximum Utilization Voltage	13,1	kV
Basic lightning impulse insulation level	110	kV
Maximum altitude of installation (a.s.l.)	8000	ft
Neutral system earthing	solid	
Power Frequency	48 ... 62	Hz
Electrical data		
Applied Standard	IEEE Std.C62.11	
Duty-cycle voltage	10,0	kV
Maximum continuous operating voltage (MCOV)	8,4	kV
Line discharge class (acc. IEC 60099-4)	3	
Low-current long-duration	1 100	A
High-current short-duration	65,0	kA
Pressure-relief capability	65,0	kA
Maximum discharge voltage at :		
10 kA 1/2 µs including inductive voltage drop (FOW)	25,0	kV
5 kA 8/20 µs	22,6	kV
10 kA 8/20 µs	24,0	kV
20 kA 8/20 µs	26,6	kV
40 kA 8/20 µs	30,2	kV
500 A (45/90 µs)	19,2	kV
1 kA (45/90 µs)	19,7	kV
2 kA (45/90 µs)	20,6	kV
Temporary overvoltage for 1 s	11,8	kV
Temporary overvoltage for 10 s	11,0	kV
Energy discharge capability - thermal	9,0	kJ/kV _{MCOV}
Energy Class	E	
Power Frequency withstand voltage (10 s, wet)	109	kV
Lightning Impulse withstand voltage (1,2/50 µs)	235	kV
Mechanical data		
Height (H)	18,98	inch
Minimum creepage distance	57,87	inch
Number of units	1	
Weight (G)	35,9	lb
Color of housing	grey	
Specified long-term load SLL (F _{stat})	1303	lbf
Specified short-term load SSL (F _{dyn})	1863	lbf
Accessories		
Line terminal	Flat 3.94"x4.49" DIN/NEMA, hot dip galvanized	
Ground terminal	D=7.87"-10", not insulated, A2	
Accessory 1	3EX6031 Line clamp DIN/NEMA	
Accessory 2	Eyebolt Earth-Terminal A2	



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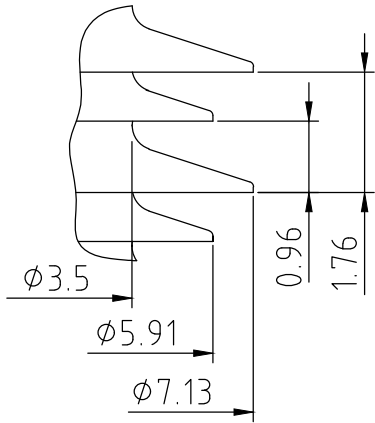
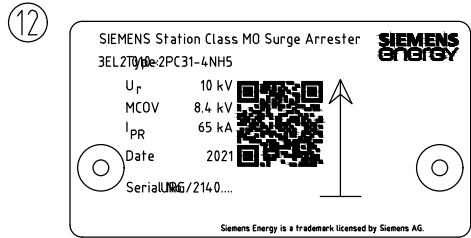


①	②	③		④	⑤	⑥		⑦		⑧
Type	U_r kV	MCOV kV	H inch	G lbs	n	d inch	l inch	F_{stat} lbf	F_{dyn} lbf	k inch
3EL2 010-2PC31-4NH5	10	8.4	19	36	1	-	-	1300	1860	58

1. Type
2. Duty cycle
3. Maximum continuous operating voltage (MCOV)
4. Total weight, approx.
5. Number of units
6. Dimensions of the grading fittings
7. Max. permissible pull at insulator top
8. Min. creepage distance
9. Basic plate for unisolated installation, 3-hole mounting M12, ø 7.87-10.87 inch
10. Ground terminal or terminal for control devices
11. Flat terminal, hot-dip galvanised steel
12. Name plate (anodized aluminum)

14. Center of mass

Remarks
Frequency: 48 ... 62 Hz
Altitude above sea level: up to 8000 ft
Material and color of insulator: directly molded silicone housing, grey



3EL2 - Cage Design

SIEMENS ENERGY, INC

AL: N ECCN: N	Index	Remark					Ä.d.	Date
	a	new version of the outline drawing						09.10.2021
	First issue		Current update	CAD-drawing				
	09.10.2021	Date		Surge arrester 3EL2				
	Symphorianus	Handled by						
	A. Villanueva	Checked						
		Section leader						
		Standard						
				f. type	type			
		GP TP SW / 27152691.0400			B01-	a		
		drawing number			Sheet no.	Index		
		Replacement for		Superseded by				