

ABB Type	Voltage Rating (kV)	Rated Current (Amperes)		rupting ability Icap (kA)	Discharge Capability (Kilojoules)	Type (Combination) (Current Limiting) (Expulsion)	Application (Indoor) (Outdoor)	See Page Number
	1.2 kV	25A - 175A	115 kA	1.25 kA	50K	Current Limiting	Indoor	
CLC	1.8 kV 2.5 kV	25A - 175A 25A - 75A	40 kA 35 kA	1.25 kA 1.25 kA	80K 80K	Current Limiting Current Limitina	Indoor Indoor	5
CLC	3.0 kV	25A - 75A 25A - 130A	35 kA 35 kA	1.25 kA 1.25 kA	100K	Current Limiting	Indoor	5
	4.3/2.5 kV	25A - 75A	60 kA	1.25 kA	80K	Current Limiting	Indoor	
	5.5 kV	15A - 65A	40 kA	2.9 kA	77K	Combination	Indoor	
CIL	8.3 kV	8A - 40A	60 kA	2.9 kA	75K	Combination	Indoor	9
	15.5	6A - 25A	90 kA	800 Amps	88K	Combination	Indoor	
	9.7 kV	6A - 100A	10 kA	1.9 kA	30K	Expulsion	Outdoor	
	16.6 kV	6A - 50A	5 kA	2.1 kA	30K	Expulsion	Outdoor	
CXP	26.2 kV	6A - 50A	2.5 KA	.8 kA	30K	Expulsion	Outdoor	13
	2.8 kV	25A - 80A	40 kA	2.9 kA	85K	Combination	Outdoor	
	5.5 kV	15A - 65A	40 kA	2.9 kA	77K	Combination	Outdoor	
COL	8.3 kV	8A - 40A	60 kA	2.9 kA	75K	Combination	Outdoor	7
	15.5 kV	6A - 25A	90 kA	2.3 kA	88K	Combination	Outdoor	
	23.0 kV	6A - 15A	60 kA	800 Amps	50K	Combination	Outdoor	
	2.5 kV	15A - 33A	0	> 1.4 kA	No Limit	Combination	Outdoor	
	5.0 kV	8A - 33A	0	> 1.4 kA	No Limit	Combination	Outdoor	
	8.0 kV	6A - 33A	0	> 1.4 kA	No Limit	Combination	Outdoor	
CLXP	10.0 kV	15A - 33A	0	> 1.4 kA	No Limit	Combination	Outdoor	11
	15.0 kV	10A - 33A	0	> 1.4 kA	No Limit	Combination	Outdoor	
	20.0 kV	8A - 33A	0	> 1.4 kA	No Limit	Combination	Outdoor	
	25.0 kV	8A - 33A	0	> 1.4 kA	No Limit	Combination	Outdoor	





Type CLC - Indoor, Current Limiting Capacitor Fuse 1.2 - 3.0 kV

GENERAL DESCRIPTION

The Type CLC Fuse is a full range (partial range for 4.3/2.5kV ratings) current limiting capacitor fuse. It is designed for indoor use or in an enclosure, protected from outdoor weather conditions. The CLC fuses exist in 1200, 1800, 2500, 3000 volt and 4.3/2.5kV ratings. The primary application of these fuses is individual unit fusing of low voltage single and three phase capacitors in metal enclosed equipments. The 1200, 1800 and 3000 volt ratings are current limiting, indicating and non-disconnecting. The 2500 volt and 4.3/2.5kV ratings are current limiting, nonindicating and non-disconnecting.

APPLICATION:

CLC fuses are selected by taking the following steps:

1. Voltage:

The voltage of the capacitor being protected should be less than or equal to the voltage of the fuse selected. The nearest available fuse should be used to assure that the voltage developed by the fuse during interruption does not damage the system. The 4.3/2.5kV fuse is a special rating for 2500V single-phase applications or 4300V 3-phase applications. To protect a 4800V single-phase capacitor, use two 4.3/2.5kV fuses in series.

2. Interrupting capacity:

The interrupting capacity on CLC fuses is more than adequate to protect most applications.

Available Fault Current:

Rated KVA source XFMR/Impedance (source) Divide by the voltage to obtain available fault current EXAMPLE: 50 KVA/10% = 500,000 VA for 480 V, I = 1042 amperes

3. Continuous current:

The continuous current rating of the fuse should be 1.65 times the current flowing in each phase to protect against harmonics and switching currents.

Selecting Type CLC Fuses

Single-Phase: Ampere rating 1.65 x kVAR Three-Phase Units: Ampere rating 1.65 x

> Type CLC Fuse Ratings Normal Applications On Typical 2400 And 4160 Volt Capacitor

Three Phase Units

3 Phase <u>kVAC</u>	2400V	<u>4160V</u>
25	25A, 2.5 kV	25A, 4.3/2.5 kV
50	25A, 2.5 kV	25A, 4.3/2.5 kV
75	5CA, 2.5 kV	25A, 4.3/2.5 kV
100	50A, 2.5 kV	25A, 4.3/2.5 kV
125	50A, 2.5 kV	50A, 4.3/2.5 kV
150	75A, 2.5 kV	50A, 4.3/2.5 kV
175	75A, 2.5 kV	50A, 4.3/2.5 kV
200	75A, 2.5 kV	50A, 4.3/2.5 kV



Ampere Rating	Interrupting Capacity Amperes	Stype Number
4000 M H T	·	
• •	•	, Indicating, Indoor (Enclosed)
25	115,000	4989C12A21
50	115,000	4989C12A22
75	115,000	4989C12A23
100	115,000	4989C12A24
120	115,000	4989C12A25
135	115,000	4989C12A26
150	115,000	4989C12A27
165	115,000	4989C12A28
175	115,000	4989C12A29
		, Indicating, Indoor (Enclosed)
25	40,000	4989C12A41
50	40,000	4989C12A42
75	40,000	4989C12A43
100	40,000	4989C12A44
120	40,000	4989C12A45
135	40,000	4989C12A46
150	40,000	4989C12A47
165	40,000	4989C12A48
175	40,000	4989C12A49
2500-Volt Typ	e CLC Current Limiting,	, non-Indicating, Indoor (Enclosed)
25	35,000	4989C13A01
50	35,000	4989C13A02
75	35,000	4989C13A03
3000-Volt Typ	e CLC Current Limiting,	, Indicating, Indoor (Enclosed)
25	35,000	4989C12A61
50	35,000	4989C12A62
75	35,000	4989C12A63
100	35,000	4989C12A64
115	35,000	4989C12A65
130	35,000	4989C12A66
4.3/2.5kV Tvp	,	, non-Indicating, Indoor (Enclosed)
25	60.000	4989C13A06
50	60,000	4989C13A07
75	60,000	4989C13A08

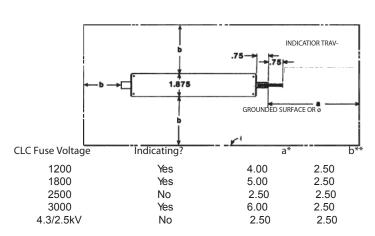
Note: Rated maximum voltage is 110% of nominal. Ref: IEEE C37.40



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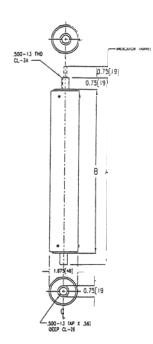


Blown Fuse Indicator



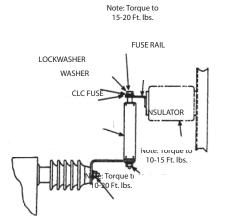
^{*}These dimensions are the recommended clearances for 60kVeAuipment. Increase these dimensions if higher Blis required.

Outline

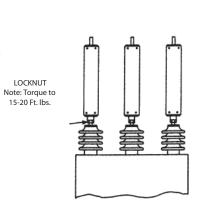


	DIMENSIONS						
Α		В	Volts				
	7.125	5.625	1200				
	9.125	7.625	1800				
	9.125	7.625	2500				
	12.375	10.875	3000				
	0 1 2 5 7 6 2 5 1 3 / 2 5						

Typical CLC Fuse Mounting Arrangements Are Shown Below:

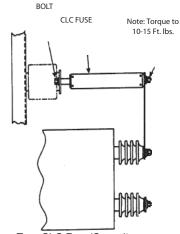


Type CLC Fuse/Capacitor Edgemount Single Phase Capacitor



CLC FUSES

Type CLC Fuse/3-4.3/2.5 kV Fuses Mounted on 3 Phase Capacitor



Type CLC Fuse/Capacitor
Edgemount on Single Phase Capacitor



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^{**}These dimensions are the minimum recommended clearances as determined by various 60 Hz. testsThese dimensions should be increased if feasible due to possible circuit variations and voltage transients.