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Cutout and Fuse Selection



1. Scope

This work practice outlines cutouts and compatible fuses for overhead applications and padmount switches, as well as general applications for each device.

See SCL 1065.17 for fusing schedules.

See SCL D11-2 for limiter installation.

2. Application

This work practice provides direction to SCL engineers and lineworkers about how to select proper cutouts and fuses.

3. Discussion

Fuses are selected based on the melting time-current characteristics required to meet the protection needs of the system. Individual fuses are only compatible with specific cutouts.

Cutout and fuse selection is based on the following system parameters:

- Current rating, A
- Voltage rating, A
- Interrupting rating, A

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Stock No. 013739, Cutout, 27 kV, 100 A 3.1

Current Rating	100 A		
Voltage Rating	27 kV		
Interrupting Rating	7500 A symmetrical 12,000 A asymmetrical		
Material Standard	6820.95		
Application	26 kV pole mount capaLateral tap from a 26 k	mination poles, 3000 kVA max acitors	
Compatible fuses	Fuse Rating, A	Stock No. 683706	
	6K	683708	
	10K	683710	
	15K	683711	
	25K	683713	

683715

683718

683724



3.2 Stock No. 682580, Cutout, 27 kV, 200 A

40K

65K

100K

Current Rating	200 A		
Voltage Rating	27 kV		
Interrupting Rating	12,500 A, symmetrical		
	20,000 A asymmetrical		
Fuse Compatibility	SMD-20		
Material Standard	None, see Stock Catalog		
Application	 Used with older transformers Industrial substations or large loads Used with a limiter; see SCL 1065.17 for sizing 		
Compatible fuses	Fuse Rating (A)	Stock No.	
Compatible fuses	Fuse Rating (A)	Stock No. 684727	
Compatible fuses			
Compatible fuses	15E	684727	
Compatible fuses	15E 30E	684727 684729	
Compatible fuses	15E 30E 50E	684727 684729 684731	
Compatible fuses	15E 30E 50E 25K	684727 684729 684731 684751	



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3.3 Stock No. 682047, Cutout, 4 kV, 100 A

Current Rating	100 A		
Voltage Rating	4 kV		
Interrupting Rating	14,000 A asymmetrical		
Material Standard	6820.10		
Application	4 kV pole-mount transformersNever used with a limiterUses fuse links		
Compatible fuses	Fuse Rating (A)	Stock No.	
	6K	683708	
	10K	683710	
	15K	683711	
	25K	683713	
	40K	683715	
	65K	683718	



References

SCL Work Practice 1065.17; "Fusing Schedule"

SCL Construction Standard D11-2; "27 kV Fault Limiter Installation"

Sources

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Panomvana, Tanya; SCL North Distribution Engineer and subject matter expert for 1065.11 (tanya.panomvana@seattle.gov)

Russo, Dave; SCL North Distribution Systems Supervisor and subject matter expert for 1065.11 (dave.russo@seattle.gov)

Shetab, Muneer; SCL Standards Engineer and subject matter expert for 1065.11 (muneer.shetab@seattle.gov)

SCL Construction Standard DU11-1.1 (canceled); "Fuse Holding Devices and Fuses"

SCL Design Standard 9065.11; "Primary Fuse Selection and Applications"