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SQUARE D COMPANY
GROUPE SCHNEIDER

INTERNAL MEMO

DATE: November 18, 1993

TO: Hooman Abtahi

FROM: Gary M. Stolz

cc. G. Jones
T. Rolof

SUBJECT: APPLICATION INFORMATION - CAPACITOR BANK SWITCHING

From time to time, people ask for various types of information regarding related capabilities of our circuit breakers. I decided to put together the attached table of information for future use. I have reviewed this information with Dave Swindler and he is in complete agreement with it. You may wish to disseminate this information within your group and to regional marketing.

The following table lists the capabilities of Square D indoor vacuum circuit breakers to switch capacitor banks. The data is based on actual testing of breakers in both single bank and back-to-back arrangements. The breakers were tested up to the continuous current rating of the breaker. The MVAR values in the table are based on applying the derating factors listed in ANSI C37.012-1979, Section 4.7.1. A derating factor of 1.25 is applied for an ungrounded neutral arrangement and a factor of 1.35 is applied for a grounded neutral arrangement.

Square D vacuum circuit breaker capacitor bank switching capability
for single bank and back-to-back switching

		MAXIMUM NAMEPLATE CAPACITOR BANK RATING - MVAR	
CAPACITOR VOLTAGE	BREAKER CONTINUOUS CURRENT	UNGROUNDED BANK	GROUNDED BANK
2,400	1,200	4	3
	2,000	7	6
4,160	1,200	7	6
	2,000	11	10
7,200	1,200	12	11
	2,000	20	18
12,470	1,200	20	19
	2,000	34	32
13,800	1,200	23	21
	2,000	38	35

NOTES:

1. Square D VAD2 & VAD3 vacuum breakers have a definite purpose rating per Table 2A, ANSI C37.06-1987 except the allowable capacitor currents may be higher than given in Table 2A.
2. Surge suppressers are required for switching transient voltages.
3. Interrupting time is in accordance with the rated interrupting time of the circuit breaker.

Let me know if there are any questions.

Gary Stolz

We Record.