

A B C D E F G H I J K L M N O P

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
				LINEAL DIM.		HOLE	
				TWO PLACE DECIMAL + .000	FRACTIONAL LETTER OR NUMBERED DRILL + .004	THREE PLACE DECIMAL + .002	UNDIMENSIONED 90° + .002

METAL CLAD CIRCUIT BREAKER RATINGS																					
CIRCUIT BREAKER DESIGNATION		NOMINAL VOLTAGE CLASS		NOMINAL 3 PHASE MVA CLASS		RATED VALUES						RELATED REQUIRED CAPABILITIES									
						VOLTAGE		INSULATION LEVEL		CURRENT		RATED PERMISSIBLE TRIPPING DELAY		CURRENT VALUES		RATED FOR RECLOSE SERVICE		FURNACE		TESTED TO ANSI STANDARDS	
DSE	KV, RMS	RATED MAXIMUM VOLTAGE	K	RATED VOLTAGE RANGE FACTOR	KV, RMS	IMPULSE 1.2 X 50 FREQUENCY	RATED CONTINUOUS CURRENT @60 HZ	RATED INTERRUPTING CAPACITY AT MAXIMUM	60HZ CYCLES	SEC.	KV, RMS	MAXIMUM SYMMETRICAL INTERRUPTING CAPABILITY	KA, RMS	3 SECOND SHORT TIME CURRENT CARRYING CAPABILITY	KA, RMS	CLOSE AND LATCH CAPABILITY	ANSI RATED	SQUARE D STANDARD	RATED FOR RECLOSE SERVICE	FURNACE	TESTED TO ANSI STANDARDS
21	4.16	75	4.76	1.36	19	60	1200	8.8	5	2	3.5	12	12	19	12	19	X X X	X X X	X X X	X X X	X X X
23	4.16	150	4.76	1.36	19	60	1200	18	5	5	3.5	24	24	39	24	39	X X X	X X X	X X X	X X X	X X X
23B	4.16	250	4.76	1.24	19	60	2000	29	5	5	3.85	36	36	58	36	58	X X X	X X X	X X X	X X X	X X X
23BH	4.16	250	4.76	1.24	19	60	2000	29	5	5	3.85	36	36	78	36	78	X X X	X X X	X X X	X X X	X X X
25C	4.16	350	4.76	1.19	19	60	2000	41	5	5	4	49	49	78	49	78	X X X	X X X	X X X	X X X	X X X
23BU	7.2	250	8.25	1.79	36	95	3000	41	5	5	4	49	49	78	49	78	X X X	X X X	X X X	X X X	X X X
25CU	7.2	500	8.25	1.25	36	95	2000	17	5	5	4.6	30	30	49	30	49	X X X	X X X	X X X	X X X	X X X
62	13.8	250	15	2.27	36	95	2000	33	5	5	6.6	41	41	66	41	66	X X X	X X X	X X X	X X X	X X X
45U	13.8	350	15	1.30	36	95	2000	9.3	5	5	6.6	21	21	34	21	34	X X X	X X X	X X X	X X X	X X X
65	13.8	500	15	1.30	36	95	2000	13.5	5	5	11.5	17.5	17.5	28	17.5	28	X X X	X X X	X X X	X X X	X X X
65H	13.8	500	15	1.30	36	95	2000	18	5	5	11.5	23	23	37	23	37	X X X	X X X	X X X	X X X	X X X
57	13.3	750	15	1.30	36	95	2000	28	5	5	11.5	36	36	58	36	58	X X X	X X X	X X X	X X X	X X X
57H	13.8	750	15	1.30	36	95	3000	28	5	5	11.5	36	36	77	36	77	X X X	X X X	X X X	X X X	X X X
68	13.8	1000	15	1.3	36	95	2000	37	8	8	11.5	48	48	77	48	77	X X X	X X X	X X X	X X X	X X X

SCALE

DRAWN

CHKD.

5

TITLE

METAL CLAD CIRCUIT

USED ON

BREAKER RATINGS

RAWSTOCK

- FOOT NOTES FOR METAL CLAD CIRCUIT BREAKER RATINGS
- ① REFER TO ANSI STANDARD C37.04 FOR DEFINITIONS OF TERMS USED.
 - ② RATED SHORT CIRCUIT CURRENT AT MAXIMUM RATED VOLTAGE.
 - ③ RATED MAXIMUM VOLTAGE DIVIDED BY K.
 - ④ RATED SHORT CIRCUIT CURRENT AT MINIMUM RATED VOLTAGE.

SCALE		DRAWN	CHKD.	DATE	C.R.
		EBZ		5-4-77	
TITLE					
METAL CLAD CIRCUIT					
USED ON					
BREAKER RATINGS					
BARKELEW PLANT MIDDLETOWN, OHIO USA					
SQUARED COMPANY					
PRINTS TO					
PBD 41040					

BREAKER AUXILIARY SWITCH DATA

BREAKER AUXILIARY SWITCH

- 1. The auxiliary switch is operated by a link attached to the high voltage blade drive shaft.
- 2. The standard set of auxiliary contacts that comes with the DSE breaker consists of five contacts. The number of contacts can be changed to either nine or twelve contacts. This is accomplished by replacing the standard switch contact assembly with a larger assembly containing the increased number of contacts. The modification parts are as follows:

Number of Contacts	Use Contact Assembly	Remove Contact Assembly
5	Standard	
9	C44065-038-51	C44065-038-50
12	C44065-038-52	C44065-038-50

- 3. The position that the auxiliary contacts operate with respect to the operation of the high voltage contacts can be adjusted as required. To adjust these contacts follow instructions on Page 27, Section 4.4 of SU-6150-2A "Instructions for Type DSE AC High-Voltage Circuit Breakers". For additional information refer to PBD 41250 "Cell Switch Data".
- 4. For replacement of this auxiliary contact block refer to SU-6150-2A, Page 70, Section 24.

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS				
A-RET	M23129	8-23-85	JK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL THREE PLACE DECIMAL	± .000 ± .000	
B-RET	M23156	7-26-85	RW		HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL + .004 THREE PLACE DECIMAL ± .002 - .002		
					ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 5°		
					SCALE	DRAWN	CHKD.	DATE
					RW		7-26-85	C.R. PBD -006
				TITLE BREAKER AUXILIARY SWITCH DATA				 SQUARE D COMPANY MIDDLETOWN, OHIO USA
				USED ON				
PRINTS TO				RAWSTOCK				PBD 41105
A	B	C	D	E	F	G		

CIRCUIT BREAKER - CUBICLE RATING LOCKOUT SCHEME

All DSE circuit breakers and their cubicles are provided with an interlock scheme that prevents the insertion of an under rated circuit breaker into a cubicle. This interlock scheme does permit a circuit breaker with a higher rating than the cubicle to be inserted into the cubicle, thus simplifying the selection of a spare breaker when required.

The ratings are based on both current and interrupting capacity. Units that may be used based on this scheme are:

1. A higher current, same interrupting capacity breaker may be used, or
2. A higher interrupting capacity, same current rating breaker may be used, or
3. A higher current and higher interrupting capacity rated breaker may be used, or
4. A breaker with identical ratings may be used.

The interlocking is accomplished by inserting one or more pins in a block welded to the floor of the cubicle and bolting one or more blocks to the bottom left rear of the circuit breaker truck. The pins and blocks are placed so the pins prevent all lower rated breakers being inserted into the cubicle and allowing all higher rated breakers to be inserted into the cubicle.

Whenever interchanging circuit breakers be sure the voltage rating of the breaker is the same as the voltage rating of the cubicle.

DO NOT INTERCHANGE VOLTAGE RATINGS.

Check all the control voltages to be sure they agree with the ratings of the cubicle.

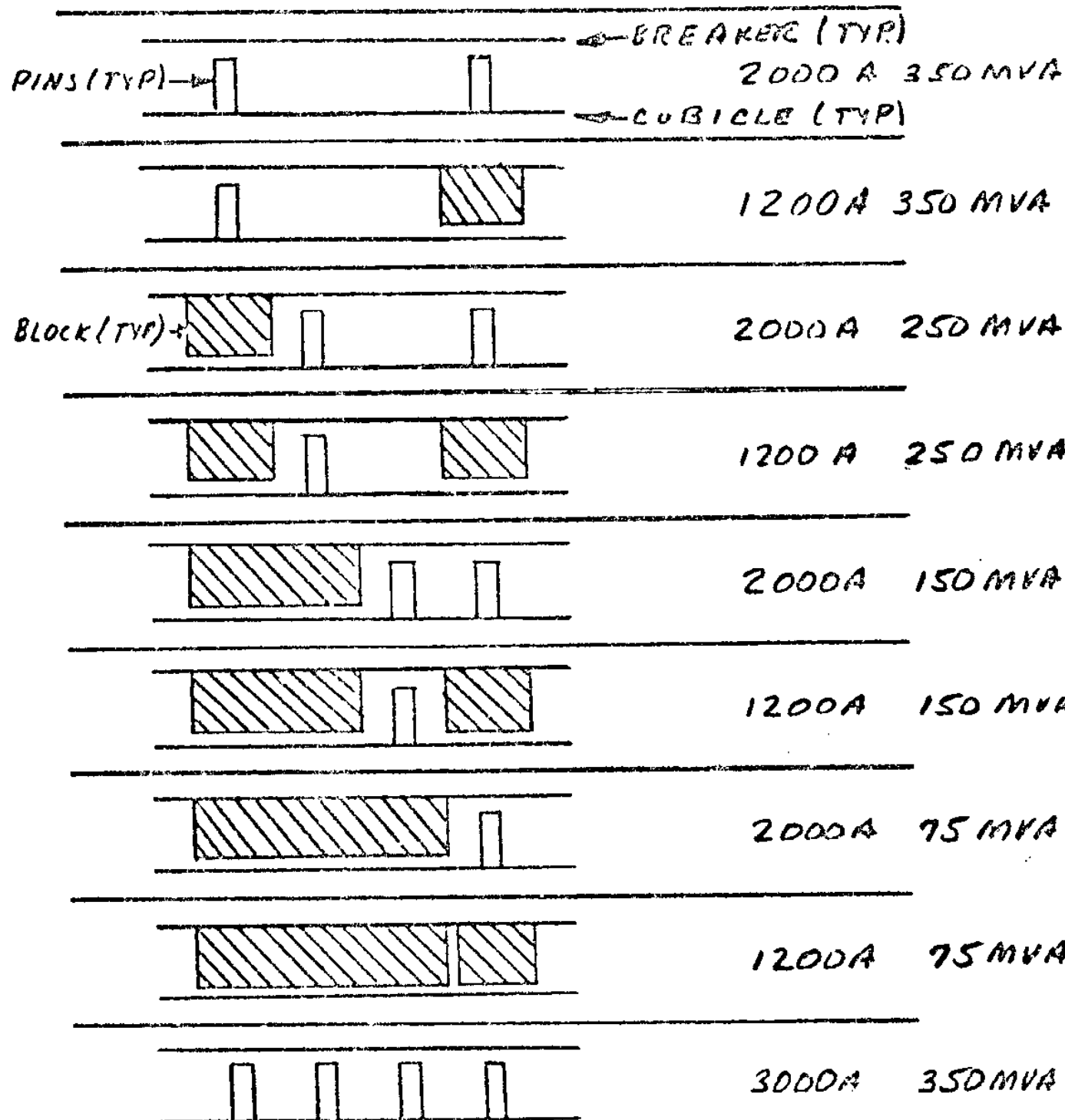
Check the number and specification of the auxilliary switches to insure proper operation of the control circuits.

The overall scheme is shown on the following pages. Refer to the following tracings for the exact placement of the pins and blocks.

5kV Breaker	B44065-095
5kV Cubicle	B44060-340
7.2kV & 15kV Breaker	C44065-094
7.2kV & 15kV Cubicle	C44060-339

[illegible]

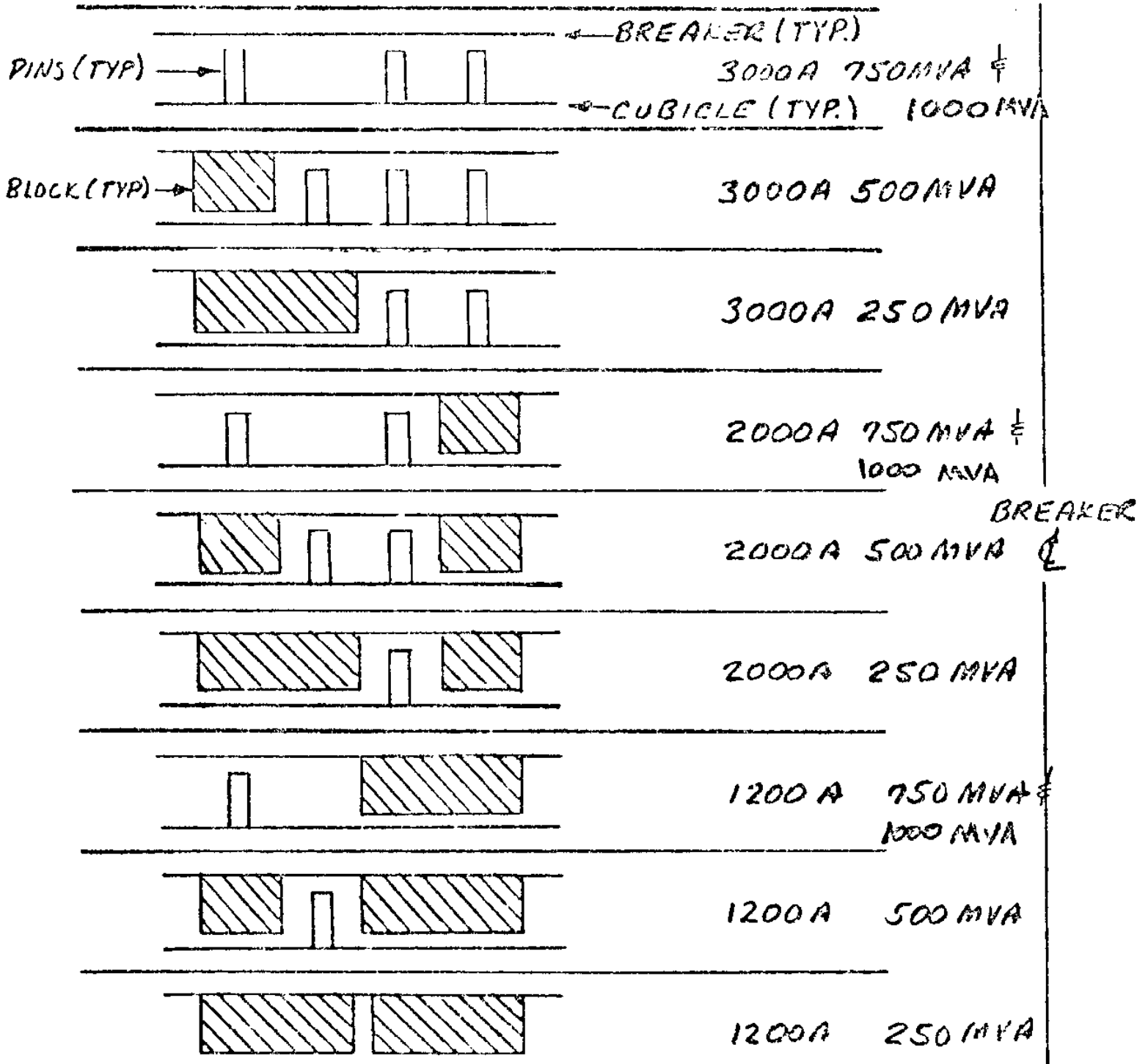
5 KV INTERLOCK SCHEME



FRONT VIEW

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS					
				STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .010$ THREE PLACE DECIMAL $\pm .005$	SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA		
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .002$ $- .002$			
					ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$			
				SCALE	DRAWN	CHKD.	DATE	CR-PAD -013	SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA
				TITLE CIRCUIT BREAKER-CUBICLE RATING LOCKOUT SCHEME					
PRINTS TO				PBD 41043 Pg. 2 of 3					
A	B	C	D	E	F	G			

7.2 KV & 15KV INTERLOCK SCHEME



FRONT VIEW

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS			
A	1-18-77	5-22-79	MAT	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL ± .030 THREE PLACE DECIMAL ± .008	
					HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL ± .004 THREE PLACE DECIMAL ± .002 - .002	
					ANGLE	DIMENSIONED ± 1° UNDIMENSIONED 90° ± 30°	
				SCALE	DRAYN	CHKD.	DATE
				1	2	3	1-18-77
				C.R. CR-PBD -013			
TITLE				CIRCUIT BREAKER-CUBICLE			
PRINTS TO				RATING LOCKOUT SCHEME			
A B C D E F G				SQUARE D COMPANY BARKELEW PLANT MIDDLETOWN, OHIO USA			
				PBD 41043 Pg. 3 of 3			

DSE BREAKER TIME AND HEAT CHARACTERISTICS

BREAKER	AVG. CLOSING	AVG. OPENING	AVG. SPRING CHARGING	INTERRUPTING TIME 0-100% OF RATING	RECLOSING TIME
⑤ 5kV	8.6 CYCLES	3.12 CYCLES	6 SECONDS	5 CYCLES	N/A
⑥ 15kV	8.6 CYCLES	3.12 CYCLES	6 SECONDS	5 CYCLES	22 CYCLES

⑤ NOMINAL DEAD BUS TIME FOR BOTH BREAKERS IS $\approx$ 12.72 CYCLES. THIS IS THE INTERVAL BETWEEN THE PARTING OF ONE BREAKER'S PRIMARY CONTACTS AND THE CLOSING OF A SECOND BREAKER'S PRIMARY CONTACTS USING A STANDARD 'B' CONTACT FROM THE FIRST BREAKER TO SIGNAL THE CLOSING OF THE SECOND BREAKER.

AT 1200 AMPS CURRENT, THE BREAKER'S HEAT LOSS IS 450 WATTS FOR BOTH 5 & 15kV.

CLOSING TIME IS THE INTERVAL BETWEEN THE APPLICATION OF RATED CONTROL VOLTAGE TO THE BREAKER CLOSING CONTROL CIRCUIT AND THE CONTACTING OF THE PRIMARY ARCING CONTACTS OF THE BREAKER.

OPENING TIME IS THE INTERVAL BETWEEN THE ENERGIZING OF THE TRIP CIRCUIT AND THE-PARTING. OF THE PRIMARY ARCING CONTACTS OF THE BREAKER.

INTERRUPTING TIME IS THE INTERVAL BETWEEN THE ENERGIZING OF THE TRIP CIRCUIT AND THE INTERRUPTION OF THE CURRENT ON THE PRIMARY ARCING-CONTACTS.

RECLOSING TIME IS THE INTERVAL BETWEEN THE ENERGIZING OF THE TRIP CIRCUIT (THE BREAKER BEING IN A CLOSED POSITION) AND THE RE-ESTABLISHMENT OF THE CIRCUIT ON THE PRIMARY ARCING CONTACTS ON THE RECLOSING STROKE.

AT RATED CURRENT A CUBICLE DISSIPATES THE FOLLOWING AMOUNT OF POWER AS HEAT:

CURRENT RATING	CUBICLE DISSIPATION	
	WATTS	BTU/HR
1200A	700	2390
2000A	1250	4265
3000A	2000	6826

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS											
E-RET	PED-036	10-11-83	JK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.	TWO PLACE DECIMAL $\pm .000$ THREE PLACE DECIMAL $\pm .000$								
						HOLE DIA.	FRACTIONAL, LETTER, OR NUMBERED DRILL $\pm .004$ THREE PLACE DECIMAL $\pm .001$ $-.002$								
						ANGLE	ENGERGISED $\pm 1^\circ$ UNENERGISED $90^\circ \pm 2^\circ$								
						SCALE		DRAWN	CHKD.	DATE	C. R.	 SQUIRE D COMPANY MIDDLETOWN, OHIO USA			
						RDR		6-20-75							
				TITLE											
				DSE BREAKER TIME & HEAT											
				USED ON											
				CHARACTERISTICS											
				RAWSTOCK											
PRINTS TO															
S	MEY														
Y	2/80														

PBD-41044

DESCRIPTION	SQUARE D PART NUMBER	M-G PART NUMBER	RATED CONTROL VOLTS	REQUIRED OPERATING VOLTAGE RANGE (ANSI) VOLTS	MINIMUM OPERATING VOLTAGE VOLTS	CURRENT AT RATED ① VOLTAGE AMPS	② BURDEN VOLT AMPS	D.C. RESISTANCE OHMS
Charging Motor	E44065-031-01	879 688	24 VDC	-	18 VDC	5.6	135	-
Charging Motor	B44065-031-02	879 689	48 VDC	-	35 VDC	2.7	130	-
Charging Motor	B44065-031-03	879 692	125 VDC	90-130 VDC	57 VDC	1.6	200	-
Charging Motor	B44065-031-04	879 693	250VDC/230VAC	180-260 VDC 190-250 VAC	85VDC/150VAC	0.8	200	-
Charging Motor	E44065-031-05	879 690	115 VAC	95-125 VAC	90 VAC	2.2	253	-
Closing Solenoid	C44065-033-01	883 164A	24 VDC	-	18 VDC	1.36	33	17.6
Closing Solenoid	C44065-033-02	883 164B	48 VDC	-	35 VDC	.68	33	71
Closing Solenoid	C44065-033-03	883 164C	125 VDC	90-130 VDC	57 VDC	.27	34	470
Closing Solenoid	C44065-033-04	883 164E	250 VDC	180-260 VDC	105 VDC	.14	35	1800
Closing Solenoid	C44065-033-05	883 165E	115 VAC	95-125 VAC	60 VAC	2.75/1.8	317	11.5
Closing Solenoid	C44065-033-07	883 165F	230 VAC	190-250 VAC	130 VAC	.95/.50	219	71
Anti Pump Relay	4090152	-	24 VDC	-	18 VDC	.051	1.22	472
Anti Pump Relay	4090153	-	48 VDC	-	36 VDC	.027	1.30	1800
Anti Pump Relay	4090154	-	125 VDC	-	94 VDC	.019	2.38	6450
Anti Pump Relay	4090154 + 26160-21660	-	250 VDC	-	188 VDC	.020	5.00	6450 & 6000
Anti Pump Relay	4090155	-	115 VAC	-	98 VAC	.017	2.0	2250
Anti Pump Relay	A44050-206-01	-	230 VAC	-	196 VAC	.012	2.75	7200
Trip Solenoid	C44065-034-01	883 170G	24 VDC	14-30 VDC	13 VDC	1.36	33	17.6
Trip Solenoid	C44065-034-02	883 170B	48 VDC	28-60 VDC	25 VDC	0.68	33	71
Trip Solenoid	C44065-034-07	883 170H	125 VDC	70-140 VDC	40 VDC	0.42	53	298
Trip Solenoid	C44065-034-04	883 170C	250 VDC	140-280 VDC	105 VDC	0.14	35	1800
Trip Solenoid	C44065-034-08	883 184D	115 VAC	95-125 VAC	75 VAC	1.2/.65	138	26.5
Trip Solenoid	C44065-034-06	883 184B	230 VAC	190-250 VAC	160 VAC	.55/.20	127	118

- ① For AC solenoids the inrush current is given first then the sealed current is listed second.
- ② Burden for AC solenoids based on the inrush current.

REV A 21 P.D.-02 7-10-77 11A5
REV A 02 P.D.-02B 25-04-79 11A5
REV A P.D.-014 3-10-77 11A5

④ Pg. 1 of 2

M-G BREAKER OPERATING MOTORS AND SOLENOIDS

DESCRIPTION	SQUARE D PART NO.	M-G PART NO.	RATED CONTROL VOLTAGE VOLTS	MINIMUM DROP OUT VOLTAGE VOLTS	CURRENT AT RATED VOLTAGE AMPS ①	COIL RESISTANCE OHMS	EXTERNAL RESISTOR OHMS	BURDEN VOLT AMPS ②	TIME FROM DROP OUT OF TRIP REL. TO ACTIVATION OF TRIP MECHANISM MILLI SECONDS
UNDER VOLTAGE TRIP RELEASE	A44065-326-01	883168A	24VDC	8.5-10 VDC	.314	5.8	47	7.5	38-45 MS
	A44065-326-02	883168B	48VDC	18-20 VDC	.182	24	180	8.7	
	A44065-326-03	883168E	125VDC	40-50 VDC	.057	244	1000	7.1	
	A44065-326-04	883168F	250VDC	80-90 VDC	.036	590	3900	9.0	
	A44065-326-05	883169C	120VAC	62-67 VAC	2.7/.410	6.5	-	324.0	
	A44065-326-06	883169E	230VAC	135-150 VAC	1.8/.300	35	-	414.0	

① IN RUSH GIVEN FIRST

② BURDEN FOR AC COILS USES INRUSH VALUE

DSE BREAKER AUXILIARY CONTACT TIMING

Operation: Closing

Primary Contacts	144 msec
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Auxiliary Contacts

B - Early make late break	132 msec
B - Normal (Standard)	76 msec
A - Early make late break	120 msec
A - Normal (Standard)	132 msec

Primary contacts make in above time.

B auxiliary contacts are normally closed when breaker is open.

A auxiliary contacts are normally open when breaker is open.

The above time is the time after voltage is applied to the closing solenoid that the contacts change mode.

Operation: Opening

Primary Contacts	52 msec
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Auxiliary Contacts

B - Early make late break	64 msec
E - (Normal) Standard	120 msec
A - Early make late break	76 msec
A - Normal (Standard)	64 msec

Primary contacts break in above time.

B auxiliary contacts are normally opened when breaker is closed.

Auxiliary contacts are normally closed when breaker is closed.

The above time is the time after voltage is applied to the opening solenoid that the contacts change mode.

Note: Due to manufacturing procedure these values listed may vary
8 - 10 msec from breaker-to-breaker.

[illegible]

BREAKER MODIFICATIONS:

1) None - Eng. to specify reclosing breaker

CELL MODIFICATIONS:

- 1) Use D44061-611-50 louver weldment on top of breaker comp't.
Credit back A44060-124-01 or A44060-977-50 if necessary.
- 2) Use B44060-521-52 breaker comp't. door W.A., louvered.
Credit back B44060-521-50 if necessary.

REV.	C. R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS									
A	MC-0229	20 Nov 78	ERL	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.		TWO PLACE DECIMAL THREE PLACE DECIMAL		+ .080 ± .009			
B	MC-0244	24 Nov 79	MAJ			HOLE DIA.		FRACTIONAL LETTER OR NUMBERED DRILL THREE PLACE DECIMAL		+ .004 ± .003 - .002			
C	MC-0245	15 Nov 79	ERL			ANGLE		DIMENSIONED ± 1°		UNDIMENSIONED 90° ± 2°			
				SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY SANFLEEV PLANT MIDDLETOWN, OHIO USA				
					MAJ		4-5-79	PBD-003					
TITLE													
AUTOMATIC RECLOSING DUTY CIRCUIT													
USED ON													
DSE BREAKERS TYPE R													
RA-5 STOCK													
PRINTS TO													
									PBD 41106 PG. 2 OF 2				

1Kg = 2.2046 lbs.

BREAKER TYPE			WEIGHT OF TRUCK ASSEMBLY	ARC CHUTE
DSE 21	75 MVA-	4.16kV-1200A	154 Kg - 339.5 lbs.	18 Kg - 39.7 lbs.
DSE 23	150 MVA-	4.16kV-1200A	154 Kg - 339.5 lbs.	21 Kg - 46.3 lbs.
DSE 23B	250 MVA-	4.16kV-1200A	154 Kg - 339.5 lbs.	25.5 Kg - 56.2 lbs.
DSE 23B	250 MVA-	4.16kV-2000A	200 Kg - 441 lbs.	25.5 Kg - 56.2 lbs.
DSE 25C	350 MVA-	4.16kV-1200A	160 Kg - 352.7 lbs.	36.5 Kg - 80.5 lbs.
DSE 25C	350 MVA-	4.16kV-2000A	200 Kg - 441 lbs.	36.5 Kg - 80.5 lbs.
DSE 25C	350 MVA-	4.16kV-3000A	224 Kg - 494.5 lbs.	36.5 Kg - 80.5 lbs.
DSE 23BU	250 MVA-	7.2kV-1200A	170 Kg - 375 lbs.	22.2 Kg - 49 lbs.
DSE 23BU	250 MVA-	7.2kV-2000A	210 Kg - 463 lbs.	22.2 Kg - 49 lbs.
DSE 25CU	500 MVA-	7.2kV-1200A	170 Kg - 375 lbs.	37.1 Kg - 81.8 lbs.
DSE 25CU	500 MVA-	7.2kV-2000A	210 Kg - 463 lbs.	37.1 Kg - 81.8 lbs.
DSE 62	250 MVA-	13.8kV-1200A	170 Kg - 375 lbs.	21.6 Kg - 47.6 lbs.
DSE 62	250 MVA-	13.8kV-2000A	210 Kg - 463 lbs.	21.6 Kg - 47.6 lbs.
DSE 65	500 MVA-	13.8kV-1200A	170 Kg - 375 lbs.	35.5 Kg - 78.3 lbs.
DSE 65	500 MVA-	13.8kV-2000A	210 Kg - 463 lbs.	35.5 Kg - 78.3 lbs.
DSE 65	500 MVA-	13.8kV-3000A	240 Kg - 530 lbs.	35.5 Kg - 78.3 lbs.
DSE 57	750 MVA-	13.8kV-1200A	170 Kg - 375 lbs.	38 Kg - 83.8 lbs.
DSE 57	750 MVA-	13.8kV-2000A	210 Kg - 463 lbs.	38 Kg - 83.8 lbs.
DSE 57	750 MVA-	13.8kV-3000A	240 Kg - 530 lbs.	38 Kg - 83.8 lbs.

[illegible]

BREAKER TYPE		WEIGHT OF TRUCK ASSEMBLY	ARC CHUTE
DSE 68	1000 MVA- 13.8kV-1200A	180 Kg - 397 lbs.	66.7 Kg - 147 lbs.
DSE 68	1000 MVA- 13.8kV-2000A	235 Kg - 518 lbs.	66.7 Kg - 147 lbs.
DSE 68	1000 MVA- 13.8kV-3000A	265 Kg - 585 lbs.	66.7 Kg - 147 lbs.

REV.	C.R.	DATE	BY	DO NOT SCALE - WORK TO DIMENSIONS										
A-KET	PBD-036	10-11-83	JK	STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED		LINEAL DIM.		TWO PLACE DECIMAL $\pm .000$ THREE PLACE DECIMAL $\pm .000$						
						HOLE DIA.		FRACTIONAL, LETTER, OR NUMBERS DRILL $+ .004$ THREE PLACE DECIMAL $\pm .003$ $- .000$						
						ANGLE		DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 5^\circ$						
				SCALE	DRAWN	CNRD.	DATE	C.R.	 SQUARE D COMPANY MIDDLETOWN, OHIO USA					
					KC		7-17-76							
				TITLE										
				WEIGHT OF TRUCK ASS'Y & ARC CHUTE										
				USED ON										
PRINTS TO														
				RAWSTOCK					PBD 41115 Pg. 2 of 2					

DO NOT SCALE - WORK TO DIMENSIONS

STANDARD TOLERANCE UNLESS OTHERWISE SPECIFIED	LINEAL DIM.	TWO PLACE DECIMAL $\pm .005$ THREE PLACE DECIMAL $\pm .000$
	HOLE DIA.	FRACTIONAL LETTER, OR NUMBERED DRILL $+.004$ THREE PLACE DECIMAL $+.002$ $-.000$
	ANGLE	DIMENSIONED $\pm 1^\circ$ UNDIMENSIONED $90^\circ \pm 2^\circ$

SCALE	DRAWN	CHKD.	DATE	C. R.	 SQUARE D COMPANY
	KC		7-17-76		

TITLE
WEIGHT OF TRUCK ASS'Y & ARC CHUTE

USE D ON

RAWSTOCK



SQUARE D COMPANY

MIDDLETOWN, OHIO USA

PRINTS TO

PBD 41115 Pg. 2 of 2

MODIFICATION REQUIRED FOR BREAKERS

SET#	KV	MVA	AMPS	BASIC BREAKER #	ARC CHUTE ASSY #	INTERPHASE BARRIERS	MODIFICATION REQUIRED
21	4.16	75	1200	44065-119-50			None
22	4.16	150	1200	44065-119-50	44065-086-50	44065-163-50	None
23	4.16	250	1200	44065-119-50	44065-087-50		None
24	4.16		2000	44065-120-50	44065-087-50		None
25	4.16	250	1200	44065-119-50	44065-087-50		Add 70 Joule spring
26	4.16		2000	44065-120-50	44065-087-50		Add 70 Joule spring
27	4.16	350	1200	44065-119-50	44065-088-50		Remove Type "A" arc chute supports, fit with Type "B". Add 12 disconnecting fingers.
28	4.16		2000	44065-120-50	44065-088-50		Remove Type "A" arc chute supports, fit with Type "B". Add 70 joule spring.
29	4.16		3000	44065-177-50	44065-088-50		None
30	7.2	250	1200	44065-121-50	44065-183-50		Add interphase brace. Remove Type "B" arc chute supports, fit with Type "A".
31	7.2		2000	44065-122-50	44065-183-50		Add interphase brace. Remove Type "B" arc chute supports, fit with Type "A".
32	7.2	500	1200	44065-121-50	44065-184-50		Add interphase brace. Add 70 joule spring.
33	7.2		2000	44065-122-50	44065-184-50		Add interphase brace. Add 70 joule spring.

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MODIFICATIONS REQUIRED FOR BREAKERS

DSE #	KV	MVA	AMPS	BASIC BREAKER #	ARC CHUTE ASSY #	INTERPHASE BARRIERS	MODIFICATION REQUIRED
57H	13.8	750	1200	44065-121-50	44065-091-50	44065-163-50	Add interphase brace. Add 160 joule spring.
			2000	44065-122-50	44065-091-50		Add interphase brace. Add 160 joule spring.
63H	13.8	1000	1200	44065-332-50	44065-346-50	44065-355-50	None
			2000	44065-333-50	44065-347-50	44065-356-50	None
			3000	44065-334-50	44065-347-50	44065-356-50	None