

SQUARE D COMPANY SMYRNA, TN	ENGINEERING STANDARD	E 51301
SUBJECT DESIGN INDEX, VACUUM CIRCUIT BREAKER, VAD-2		PAGE OF 1 12

VAD-2 BREAKERS

1. PURPOSE

To document breaker catalog number, schematic, and wiring diagrams for releases of factory orders.

2. APPLICABLE TO

Application Engineering

3. PROCEDURE

To Order Standard Breaker:

- Enter catalog number in MB01, using "Catalog Number Structure" page 2 or "Standard Breaker Catalogs" page 7, 8, 9, 10, 11.
- If not item mastered but features are listed in "Catalog Number Structure" and wiring diagram is shown on page 5. Fill out "Breaker Order Form" page 12 and give to Breaker Engineer. A bill for the catalog number will be prepared and item mastered before release.

To Order Non-Standard Breaker:

- When features such as special control voltages, interlock, or any features not listed on page 2 are required, complete Order Form page 12, specify the special feature and give to Breaker Engineer.
- Breaker Engineer will initiate design of the special feature, complete and approve the order form and return to originator and complete rating nameplate data.
- Release components (not catalog number) into MB01 and include order form rating nameplate data in release package.

Notes

- All features shown on page 2 are designed but may not be item mastered to keep database low.
- Standard Features include: Latch Check Switch, TOC Actuator, Racking Lockout.
- Non-standard features (not available at this time):
Fixed mounted breakers, Second Trip Coil, Undervoltage Trip, Kirklock Trip Position, Close Bar Cover.
- To order Mexico plug place "-" in digit 6 and "Y" in digit 10.

A	6/88	JWM	C	1/92	WRB				PREPARED		
									BY	DATE	APPROVED
B	5/91	JWM	D	2/93	JWM				JWM	12/7/87	JWM

E0019

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3.4. BREAKER CATALOG NUMBER STRUCTURE - VAD-2												
Digit : 1 2 3 4 5 6 7 8 9 10 11 12												
Typical Cat. No. : V 2 D 6 1 A 3 3 Y O O O												
1 - Device Family V - Vacuum						7 - Close/Charge Voltage 0 - Special 2 - 48VDC 3 - 125VDC 4 - 250VDC 5 - 120VAC 6 - 240VAC						
2 - Breaker Series 2- Series 2						8 - Trip Voltage 0 - Special 1 - 24VDC 2 - 48VDC 3 - 125VDC 4 - 250VDC 5 - 120VAC 6 - 240VAC						
3 - Mounting D - Drawout						9 - MOC N - NO Y - YES						
4 - KV/KA/(MVA) 1 - 4.76/75 2 - 4.76/150 3 - 4.76/250 4 - 4.76/350 5 - 8.25/500 6 - 15.0/500 7 - 15.0/750 8 - 15.0/1000						10, 11, 12 - Special Features 0 - None H - 125VDC separate charge J - 120VAC separate charge K - 240VAC separate charge T - Charged Spring Indicator X - Special Control Wiring Y - Mexico Control Plug Z - Undefined special						
5 - Continuous Current 1 - 1200A 2 - 2000A 3 - 3000A												
6 - Control Plug A - Harting (standard) (-) - AMP (dash (-) in digit 6) (-) - Mexico (dash (-) in digit 6 and "Y" in digit 10)												

A	6/88	JWM	C	1/92	WRB				PREPARED		
									BY	DATE	APPROVED
B	5/91	JWM	D	2/93	JWM				JWM	12/7/87	JWM

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3.2. STANDARD PART NUMBERS

3.2.1 BREAKER

PART NUMBER	RATING	CATALOG NO. (MARKETING)	CAT. (INT)
44069-300-52	4.76KV, 1200A, 36KA (250MVA)	VAD-2-15025-12	V3D31
44069-300-53	4.76KV, 2000A, 36KA (250MVA)	VAD-2-15025-20	V3D32
44069-300-56	4.76KV, 3000A, 36KA (250MVA)	VAD-2-15025-30	V2D33
44069-300-54	4.76KV, 1200A, 49KA (350MVA)	VAD-2-15035-12	V2D41
44069-300-55	4.76KV, 2000A, 49KA (350MVA)	VAD-2-15035-20	V2D42
44069-300-56	4.76KV, 3000A, 49KA (350MVA)	VAD-2-15035-30	V2D43
44069-300-54	8.25KV, 1200A, 41KA (500MVA)	VAD-2-08050-12	V2D51
44069-300-55	8.25KV, 2000A, 41KA (500MVA)	VAD-2-08050-20	V2D52
44069-300-56	8.25KV, 3000A, 41KA (500MVA)	VAD-2-08050-30	V2D53
44069-300-50	15.0KV, 1200A, 23KA (500MVA)	VAD-2-15050-12	V2D61
44069-300-50	15.0KV, 2000A, 23KA (500MVA)	VAD-2-15050-20	V2D62
44069-300-56	15.0KV, 3000A, 23KA (500MVA)	VAD-2-15050-30	V2D63
44069-300-51	15.0KV, 1200A, 36KA (750MVA)	VAD-2-15075-12	V2D71
44069-300-51	15.0KV, 2000A, 36KA (750MVA)	VAD-2-15075-20	V2D72
44069-300-56	15.0KV, 3000A, 36KA (750MVA)	VAD-2-15075-30	V2D73
44069-300-54	15.0KV, 1200A, 48KA (1000MVA)	VAD-2-15100-12	V2D81
44069-300-55	15.0KV, 2000A, 48KA (1000MVA)	VAD-2-15000-20	V2D82
44069-300-56	15.0KV, 3000A, 48KA (1000MVA)	VAD-2-15000-30	V2D83

3.2.2 BREAKER PLUGS

PART NO.	DESCRIPTION
44069-375-50	HARTING (STD, 19 PINS)
44069-375-51	HARTING (24 PINS)
44069-337-50	AMP
44069-338-50	MEXICO

A	5/91	JWM	C	8/92	WRB				PREPARED	
									BY	DATE
B	1/92	JWM	D	11/92	JWM				JWM	3/31/90
										APPROVED
										JWM

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3.2.3 BREAKER CODE PLATE ASSEMBLY

44069-550-50	BKR, V2D31--,	4.76KV, 36KA, (250MVA)
44069-550-51	BKR, V2D32--,	4.76KV, 36KA, (250MVA)
44069-550-52	BKR, V2D33--,	4.76KV, 36KA, (250MVA)
44069-550-53	BKR, V2D41--,	4.76KV, 48KA, (350MVA)
44069-550-54	BKR, V2D42--,	4.76KV, 48KA, (350MVA)
44069-550-55	BKR, V2D43--,	4.76KV, 48KA, (350MVA)
44069-550-56	BKR, V2D51--,	8.25KV, 41KA, (500MVA)
44069-550-57	BKR, V2D52--,	8.25KV, 41KA, (500MVA)
44069-550-58	BKR, V2D53--,	8.25KV, 41KA, (500MVA)
44069-550-59	BKR, V2D61--,	15.0KV, 23KA, (500MVA)
44069-550-60	BKR, V2D62--,	15.0KV, 23KA, (500MVA)
44069-550-61	BKR, V2D63--,	15.0KV, 23KA, (500MVA)
44069-550-62	BKR, V2D71--,	15.0KV, 36KA, (750MVA)
44069-550-63	BKR, V2D72--,	15.0KV, 36KA, (750MVA)
44069-550-64	BKR, V2D73--,	15.0KV, 36KA, (750MVA)
44069-550-65	BKR, V2D81--,	15.0KV, 49KA, (1000MVA)
44069-550-66	BKR, V2D82--,	15.0KV, 49KA, (1000MVA)
44069-550-67	BKR, V2D83--,	15.0KV, 49KA, (1000MVA)

A	5/91	JWM	C	8/92	WRB				PREPARED		
									BY	DATE	APPROVED
B	1/92	JWM	D	11/92	JWM				JWM	3/31/90	JWM

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3.2. STANDARD PART NUMBERS (CONTINUED)

3.2.4 OPTIONAL ASSEMBLIES

PART NO.	DESCRIPTION
44069-050-50	MOC PROVISION - 500MVA
44069-050-51	MOC PROVISION - 750MVA & 1000MVA

3.2.4 CONTROL COMPONENTS

PART NO.	DESCRIPTION
44071-186-51	CHARGE MOTOR, 48VDC
44071-186-50	CHARGE MOTOR, 125VDC
44071-186-52	CHARGE MOTOR, 250VDC
44071-186-50	CHARGE MOTOR, 120VAC
44071-186-52	CHARGE MOTOR, 240VAC
44068-069-07	MOTOR RELAY, 48VDC
44068-069-03	MOTOR RELAY, 125VDC
44068-069-05	MOTOR RELAY, 250VDC
44068-069-01	MOTOR RELAY, 120VAC
44068-069-02	MOTOR RELAY, 240VAC
44068-069-07	ANTI-PUMP RELAY, 48VDC
44068-069-04	ANTI-PUMP RELAY, 125VDC
44068-069-06	ANTI-PUMP RELAY, 250VDC
44068-069-01	ANTI-PUMP RELAY, 120VAC
44068-069-02	ANTI-PUMP RELAY, 240VAC
46011-055-02	CLOSING SOLENOID, 48VDC
46011-055-03	CLOSING SOLENOID, 125VDC
46011-055-04	CLOSING SOLENOID, 250VDC
46011-055-05	CLOSING SOLENOID, 120VAC
46011-055-03	CLOSING SOLENOID, 240VAC
46011-056-01	TRIP SOLENOID, 24VDC
46011-056-02	TRIP SOLENOID, 48VDC
46011-056-03	TRIP SOLENOID, 125VDC
46011-056-04	TRIP SOLENOID, 250VDC
46011-056-05	TRIP SOLENOID, 120VAC
46011-056-03	TRIP SOLENOID, 240VAC

A	6/88	JWM	C	1/92	WRB				PREPARED	
									BY	DATE
B	5/91	JWM	D	2/32	JWM				JWM	12/7/87
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										JWM

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3.3. STANDARD DIAGRAMS

SCHEMATIC	WIRING	DESCRIPTION
1. Control Voltage:	Trip 24VDC, 48VDC, 125VDC, 120VAC Close 48VDC, 125VDC, 120VAC	
1.1 Harting Plug		
44069-359	44069-360	Standard 19 Pin
1.2 AMP Plug		
44069-357	44069-358	Standard
1.3 Mexico Plug		
44069-361	44069-362	Standard
2. Control Voltage:	Trip 24VDC, 48VDC, 125VDC, 120VAC Close 250VDC, 240VAC	
2.1 Harting Plug		
44069-365	44069-366	Standard 19 Pin
2.2 AMP Plug		
44069-365	44069-364	Standard
2.3 Mexico Plug		
44069-367	44069-368	Standard
3. Control Voltage:	Trip 250VDC Close 250VDC, 230VAC	
3.1 Harting Plug		
44069-371	44069-372	Standard 19 Pin
3.2 AMP Plug		
44069-369	44069-370	Standard
44069-380	44069-381	Separate Charge Circuit
3.3 Mexico Plug		
44069-373	44069-374	Standard

A	6/88	JWM	C	1/92	WRB				PREPARED	
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B	5/91	JWM	D	2/93	JWM				JWM	12/7/87
										APPROVED
										JWM

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3. COMMON STANDARD BREAKER CATALOG NUMBERS

4.76KV, 36KA, (250MVA) - HARTING PLUG

STD CATALOG NO.	DESCRIPTION	CLOSE TRIP	SCHEMATIC
V2D31A22N000	VAD2 BKR 1200A 250MVA	48VDC/48VDC	44069-359
V2D31A22Y000	VAD2 BKR 1200A 250MVA	48VDC/48VDC MOC	44069-359
V2D31A33N000	VAD2 BKR 1200A 250MVA	125VDC/125VDC	44069-359
V2D31A33Y000	VAD2 BKR 1200A 250MVA	125VDC/125VDC MOC	44069-359
V2D31A52N000	VAD2 BKR 1200A 250MVA	120VAC/48VDC	44069-359
V2D31A52Y000	VAD2 BKR 1200A 250MVA	120VAC/48VDC MOC	44069-359
V2D31A53N000	VAD2 BKR 1200A 250MVA	120VAC/125VDC	44069-359
V2D31A53Y000	VAD2 BKR 1200A 250MVA	120VAC/125VDC MOC	44069-359
V2D31A62N000	VAD2 BKR 1200A 250MVA	240VAC/48VDC	44069-365
V2D31A62Y000	VAD2 BKR 1200A 250MVA	240VAC/48VDC MOC	44069-365
V2D31A63N000	VAD2 BKR 1200A 250MVA	240VAC/125VDC	44069-365
V2D31A63Y000	VAD2 BKR 1200A 250MVA	240VAC/125VDC MOC	44069-365
V2D32A22N000	VAD2 BKR 2000A 250MVA	48VDC/48VDC	44069-359
V2D32A22Y000	VAD2 BKR 2000A 250MVA	48VDC/48VDC MOC	44069-359
V2D32A33N000	VAD2 BKR 2000A 250MVA	125VDC/125VDC	44069-359
V2D32A33Y000	VAD2 BKR 2000A 250MVA	125VDC/125VDC MOC	44069-359
V2D32A52N000	VAD2 BKR 2000A 250MVA	120VAC/48VDC	44069-359
V2D32A52Y000	VAD2 BKR 2000A 250MVA	120VAC/48VDC MOC	44069-359
V2D32A53N000	VAD2 BKR 2000A 250MVA	120VAC/125VDC	44069-359
V2D32A53Y000	VAD2 BKR 2000A 250MVA	120VAC/125VDC MOC	44069-359
V2D32A62N000	VAD2 BKR 2000A 250MVA	240VAC/48VDC	44069-365
V2D32A62Y000	VAD2 BKR 2000A 250MVA	240VAC/48VDC MOC	44069-365
V2D32A63N000	VAD2 BKR 2000A 250MVA	240VAC/125VDC	44069-365
V2D32A63Y000	VAD2 BKR 2000A 250MVA	240VAC/125VDC MOC	44069-365

A	6/88	JWM	C	1/92	JWM				PREPARED	
									BY	DATE
B	5/91	WRB	D	2/93	JWM				JWM	12/7/87
										APPROVED
										JWM

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3. COMMON STANDARD BREAKER CATALOG NUMBERS

4.76, 49KA, (350MVA) - HARTING PLUG

CATALOG NO.	DESCRIPTION	CLOSE TRIP	STD SCHEMATIC
V2D41A22N000	VAD2 BKR 1200A 350MVA	48VDC/48VDC	44069-359
V2D41A22Y000	VAD2 BKR 1200A 350MVA	48VDC/48VDC MOC	44069-359
V2D41A33N000	VAD2 BKR 1200A 350MVA	125VDC/125VDC	44069-359
V2D41A33Y000	VAD2 BKR 1200A 350MVA	125VDC/125VDC MOC	44069-359
V2D41A52N000	VAD2 BKR 1200A 350MVA	120VAC/48VDC	44069-359
V2D41A52Y000	VAD2 BKR 1200A 350MVA	120VAC/48VDC MOC	44069-359
V2D41A53N000	VAD2 BKR 1200A 350MVA	120VAC/125VDC	44069-359
V2D41A53Y000	VAD2 BKR 1200A 350MVA	120VAC/125VDC MOC	44069-359
V2D41A62N000	VAD2 BKR 1200A 350MVA	240VAC/48VDC	44069-365
V2D41A62Y000	VAD2 BKR 1200A 350MVA	240VAC/48VDC MOC	44069-365
V2D41A63N000	VAD2 BKR 1200A 350MVA	240VAC/125VDC	44069-365
V2D41A63Y000	VAD2 BKR 1200A 350MVA	240VAC/125VDC MOC	44069-365
V2D42A22N000	VAD2 BKR 2000A 350MVA	48VDC/48VDC	44069-359
V2D42A22Y000	VAD2 BKR 2000A 350MVA	48VDC/48VDC MOC	44069-359
V2D42A33N000	VAD2 BKR 2000A 350MVA	125VDC/125VDC	44069-359
V2D42A33Y000	VAD2 BKR 2000A 350MVA	125VDC/125VDC MOC	44069-359
V2D42A52N000	VAD2 BKR 2000A 350MVA	120VAC/48VDC	44069-359
V2D42A52Y000	VAD2 BKR 2000A 350MVA	120VAC/48VDC MOC	44069-359
V2D42A53N000	VAD2 BKR 2000A 350MVA	120VAC/125VDC	44069-359
V2D42A53Y000	VAD2 BKR 2000A 350MVA	120VAC/125VDC MOC	44069-359
V2D42A62N000	VAD2 BKR 2000A 350MVA	240VAC/48VDC	44069-365
V2D42A62Y000	VAD2 BKR 2000A 350MVA	240VAC/48VDC MOC	44069-365
V2D42A63N000	VAD2 BKR 2000A 350MVA	240VAC/125VDC	44069-365
V2D42A63Y000	VAD2 BKR 2000A 350MVA	240VAC/125VDC MOC	44069-365

A	6/88	JWM	C	1/92	JWM				PREPARED	
									BY	DATE
B	5/91	WRB	D	2/93	JWM				JWM	12/7/87
										APPROVED
										JWM

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3.3 COMMON STANDARD BREAKER CATALOG NUMBERS

15.0KV, 23KA, (500MVA) - HARTING PLUG

CATALOG NO.	DESCRIPTION	CLOSE TRIP	STD SCHEMATIC
V2D61A22N000	VAD2 BKR 1200A 500MVA	48VDC/48VDC	44069-359
V2D61A22Y000	VAD2 BKR 1200A 500MVA	48VDC/48VDC MOC	44069-359
V2D61A33N000	VAD2 BKR 1200A 500MVA	125VDC/125VDC	44069-359
V2D61A33Y000	VAD2 BKR 1200A 500MVA	125VDC/125VDC MOC	44069-359
V2D61A52N000	VAD2 BKR 1200A 500MVA	120VAC/48VDC	44069-359
V2D61A52Y000	VAD2 BKR 1200A 500MVA	120VAC/48VDC MOC	44069-359
V2D61A53N000	VAD2 BKR 1200A 500MVA	120VAC/125VDC	44069-359
V2D61A53Y000	VAD2 BKR 1200A 500MVA	120VAC/125VDC MOC	44069-359
V2D61A62N000	VAD2 BKR 1200A 500MVA	240VAC/48VDC	44069-365
V2D61A62Y000	VAD2 BKR 1200A 500MVA	240VAC/48VDC MOC	44069-365
V2D61A63N000	VAD2 BKR 1200A 500MVA	240VAC/125VDC	44069-365
V2D61A63Y000	VAD2 BKR 1200A 500MVA	240VAC/125VDC MOC	44069-365
V2D62A22N000	VAD2 BKR 2000A 500MVA	48VDC/48VDC	44069-359
V2D62A22Y000	VAD2 BKR 2000A 500MVA	48VDC/48VDC MOC	44069-359
V2D62A33N000	VAD2 BKR 2000A 500MVA	125VDC/125VDC	44069-359
V2D62A33Y000	VAD2 BKR 2000A 500MVA	125VDC/125VDC MOC	44069-359
V2D62A52N000	VAD2 BKR 2000A 500MVA	120VAC/48VDC	44069-359
V2D62A52Y000	VAD2 BKR 2000A 500MVA	120VAC/48VDC MOC	44069-359
V2D62A53N000	VAD2 BKR 2000A 500MVA	120VAC/125VDC	44069-359
V2D62A53Y000	VAD2 BKR 2000A 500MVA	120VAC/125VDC MOC	44069-359
V2D62A62N000	VAD2 BKR 2000A 500MVA	240VAC/48VDC	44069-365
V2D62A62Y000	VAD2 BKR 2000A 500MVA	240VAC/48VDC MOC	44069-365
V2D62A63N000	VAD2 BKR 2000A 500MVA	240VAC/125VDC	44069-365
V2D62A63Y000	VAD2 BKR 2000A 500MVA	240VAC/125VDC MOC	44069-365

A	6/88	JWM	C	1/92	JWM				PREPARED		APPROVED
									BY	DATE	
B	5/91	WRB	D	2/93	JWM				JWM	12/7/87	JWM

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3.3 COMMON STANDARD BREAKER CATALOG NUMBERS

15.0KV, 36KA (750MVA) - HARTING PLUG

CATALOG NO.	DESCRIPTION	CLOSE TRIP	STD SCHEMATIC
V2D71A22N000	VAD2 BKR 1200A 750MVA	48VDC/48VDC	44069-359
V2D71A22Y000	VAD2 BKR 1200A 750MVA	48VDC/48VDC MOC	44069-359
V2D71A33N000	VAD2 BKR 1200A 750MVA	125VDC/125VDC	44069-359
V2D71A33Y000	VAD2 BKR 1200A 750MVA	125VDC/125VDC MOC	44069-359
V2D71A52N000	VAD2 BKR 1200A 750MVA	120VAC/48VDC	44069-359
V2D71A52Y000	VAD2 BKR 1200A 750MVA	120VAC/48VDC MOC	44069-359
V2D71A53N000	VAD2 BKR 1200A 750MVA	120VAC/125VDC	44069-359
V2D71A53Y000	VAD2 BKR 1200A 750MVA	120VAC/125VDC MOC	44069-359
V2D71A62N000	VAD2 BKR 1200A 750MVA	240VAC/48VDC	44069-365
V2D71A62Y000	VAD2 BKR 1200A 750MVA	240VAC/48VDC MOC	44069-365
V2D71A63N000	VAD2 BKR 1200A 750MVA	240VAC/125VDC	44069-365
V2D71A63Y000	VAD2 BKR 1200A 750MVA	240VAC/125VDC MOC	44069-365
V2D72A22N000	VAD2 BKR 2000A 750MVA	48VDC/48VDC	44069-359
V2D72A22Y000	VAD2 BKR 2000A 750MVA	48VDC/48VDC MOC	44069-359
V2D72A33N000	VAD2 BKR 2000A 750MVA	125VDC/125VDC	44069-359
V2D72A33Y000	VAD2 BKR 2000A 750MVA	125VDC/125VDC MOC	44069-359
V2D72A52N000	VAD2 BKR 2000A 750MVA	120VAC/48VDC	44069-359
V2D72A52Y000	VAD2 BKR 2000A 750MVA	120VAC/48VDC MOC	44069-359
V2D72A53N000	VAD2 BKR 2000A 750MVA	120VAC/125VDC	44069-359
V2D72A53Y000	VAD2 BKR 2000A 750MVA	120VAC/125VDC MOC	44069-359
V2D72A62N000	VAD2 BKR 2000A 750MVA	240VAC/48VDC	44069-365
V2D72A62Y000	VAD2 BKR 2000A 750MVA	240VAC/48VDC MOC	44069-365
V2D72A63N000	VAD2 BKR 2000A 750MVA	240VAC/125VDC	44069-365
V2D72A63Y000	VAD2 BKR 2000A 750MVA	240VAC/125VDC MOC	44069-365

A	6/88	JWM	C	1/92	JWM				PREPARED	
									BY	DATE
B	5/91	WRB	D	2/93	JWM				JWM	12/7/87
										APPROVED
										JWM

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3.3 COMMON STANDARD BREAKER CATALOG NUMBERS

15.0KV, 48KA, (1000MVA) - HARTING PLUG

CATALOG NO.	DESCRIPTION	CLOSE TRIP	STD SCHEMATIC
V2D81A22N000	VAD2 BKR 1200A 1000MVA	48VDC/48VDC	44069-359
V2D81A22Y000	VAD2 BKR 1200A 1000MVA	48VDC/48VDC MOC	44069-359
V2D81A33N000	VAD2 BKR 1200A 1000MVA	125VDC/125VDC	44069-359
V2D81A33Y000	VAD2 BKR 1200A 1000MVA	125VDC/125VDC MOC	44069-359
V2D81A52N000	VAD2 BKR 1200A 1000MVA	120VDC/48VDC	44069-359
V2D81A52Y000	VAD2 BKR 1200A 1000MVA	120VAC/48VDC MOC	44069-359
V2D81A53N000	VAD2 BKR 1200A 1000MVA	120VAC/125VDC	44069-359
V2D81A53Y000	VAD2 BKR 1200A 1000MVA	120VAC/125VDC MOC	44069-359
V2D81A62N000	VAD2 BKR 1200A 1000MVA	240VAC/48VDC	44069-365
V2D81A62Y000	VAD2 BKR 1200A 1000MVA	240VAC/48VDC MOC	44069-365
V2D81A63N000	VAD2 BKR 1200A 1000MVA	240VAC/125VDC	44069-365
V2D81A63Y000	VAD2 BKR 1200A 1000MVA	240VAC/125VDC MOC	44069-365
V2D82A22N000	VAD2 BKR 2000A 1000MVA	48VDC/48VDC	44069-359
V2D82A22Y000	VAD2 BKR 2000A 1000MVA	48VDC/48VDC MOC	44069-359
V2D82A33N000	VAD2 BKR 2000A 1000MVA	125VDC/125VDC	44069-359
V2D82A33Y000	VAD2 BKR 2000A 1000MVA	125VDC/125VDC MOC	44069-359
V2D82A52N000	VAD2 BKR 2000A 1000MVA	120VAC/48VDC	44069-359
V2D82A52Y000	VAD2 BKR 2000A 1000MVA	120VAC/48VDC MOC	44069-359
V2D82A53N000	VAD2 BKR 2000A 1000MVA	120VAC/125VDC	44069-359
V2D82A53Y000	VAD2 BKR 2000A 1000MVA	120VAC/125VDC MOC	44069-359
V2D82A62N000	VAD2 BKR 2000A 1000MVA	240VAC/48VDC	44069-365
V2D82A62Y000	VAD2 BKR 2000A 1000MVA	240VAC/48VDC MOC	44069-365
V2D82A63N000	VAD2 BKR 2000A 1000MVA	240VAC/125VDC	44069-365
V2D82A63Y000	VAD2 BKR 2000A 1000MVA	240VAC/125VDC MOC	44069-365

A	6/88	JWM	C	1/92	JWM				PREPARED	
									BY	DATE
B	5/91	WRB	D	2/93	JWM				JWM	12/7/87
										APPROVED
										JWM

SQUARE D COMPANY SMYRNA, TN		VAD-2 BREAKER ORDER FORM				E51301 Page 12 of 12		
BY: _____		APPROVED BY: _____		DATE: _____				
CATALOG NO: _____				F.O.: _____				
QTY THIS BKR ____	VOLT. KV	KA (MVA)	1200A BREAKER 44069-	CODE*	2000A BREAKER 44069	CODE*	3000A BREAKER	CODE*
	4.76	36(250)	[] 300-52	-50	[] 300-53	-51	[] 300-56	-52
	4.76	49(350)	[] 300-54	-53	[] 300-55	-54	[] 300-56	-55
	8.25	41(500)	[] 300-54	-56	[] 300-55	-57	[] 300-56	-58
	15.0	23(500)	[] 300-50	-59	[] 300-51	-60	[] 300-56	-61
	15.0	36(750)	[] 300-52	-62	[] 300-53	-63	[] 300-56	-64
	15.0	48(1000)	[] 300-54	-65	[] 300-55	-66	[] 300-56	-67
*CODE ASSY 44069-550-XX								
CONTROL DESCRIPT.	CONTROL VOLTAGE							
	24VDC	48VDC	125VDC	250VDC	120VAC	240VAC		
	CHARGING MOTOR	N/A	[] 44071- 186-51	[] 44071- 186-50	[] 44071- 186-52	[] 44071- 186-50	[] 44071- 186-52	
	MOTOR RELAY	N/A	[] 44068- 069-07	[] 44068- 069-03	[] 44068- 069-05	[] 44068- 069-01	[] 44068- 069-02	
	ANTI-PUMP RELAY	N/A	[] 44068- 069-07	[] 44068- 069-04	[] 44068- 069-06	[] 44068- 069-01	[] 44068- 069-02	
	CLOSING SOLENOID	N/A	[] 46011- 055-02	[] 46011- 055-03	[] 46011- 055-04	[] 46011- 055-05	[] 46011- 055-03	
	TRIP SOLENOID	[] 46011- 056-01	[] 46011- 056-02	[] 46011- 056-03	[] 46011- 056-04	[] 46011- 056-05	[] 46011- 056-03	
SECONDARY PLUG ASSEMBLY								
[] 44069-375-50 HARTING (STD 19 PINS)				[] 44069-337-50 AMP				
[] 44069-375-51 HARTING (24 PINS)				[] 44069-338-50 MEXICO				
OPTIONAL ASSEMBLIES:				WIRE BREAKER PER DRAWING:				
[] 44069-050-50 MOC PROVISIONS 500MVA				[] _____ SCHEMATIC				
[] 44069-050-51 MOC PROVISIONS 750 & 1000MVA				_____ WIRING DIAGRAM				
SPECIAL INSTRUCTIONS:								

