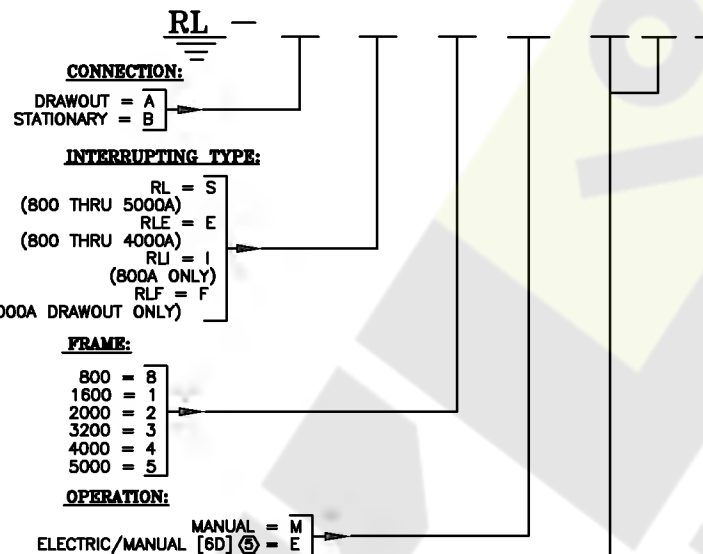


SIEMENS ENERGY & AUTOMATION

RL 600V POWER CIRCUIT BREAKER CATALOG NOMENCLATURE:



TRIPPING SENSORS:

FRAME SIZE	FRAME SIZE					SENSORS
	800	1600	2000	3200	4000	
80\5	X	X	X	-	-	AA
150\5	X	X	X	-	-	AB
200\5	X	X	X	-	-	AC
300\5	X	X	X	-	-	AD
400\5	X	X	X	-	-	AE BE
600\5	X	X	X	-	-	AF BF
800\5	X	X	X	-	-	AG BG
1200\5	-	X	X	X	-	AH
1600\5	-	X	X	X	X	AI BI
2000\5	-	-	X	X	X	AJ BJ
2400\5	-	-	-	X	-	AK
3000\5	-	-	-	X	-	AL BL
3200\5	-	-	-	X	X	AM BM
4000\5	-	-	-	-	X	AN BN
5000\5	-	-	-	-	X	AP BP
3200\5	-	-	-	X	X	AQ
4000\5	-	-	-	-	X	AR
5000\5	-	-	-	-	X	AS
NON - AUTOMATIC						XX

MULTI-RATIO (4 TAPS)

④ CURRENT LIMITING FUSES:

FUSE	FRAME SIZE ① ③					FUSE
	800	1600	2000	3200	4000	
200A	X	-	-	-	-	A
250A	X	-	-	-	-	B
400A	X	-	-	-	-	C
600A	X	-	-	-	-	D
800A	X	X	-	-	-	E
1000A	X	X	-	-	-	F
1200A	X	X	-	-	-	G
1600A	X-STD	X	-	-	-	H
2000A	-	X	X	X	X	I
2500A	-	X	-	X	X	J
3000A	-	X-STD	-	X	X	K
4000A	-	-	X-STD	X	X	L
5000A	-	-	-	X-STD	X	M
6000A	-	-	-	-	X-STD	N
UNFUSED	X	X	X	X	X	X
SPECIAL	X	X	X	X	X	S ⑬

STATIC TRIP III ②:

	T	S	I	G	T	Z	C	N	P	X
04	T	S	I	G	T	Z	C	N	P	X
05	T	S	I	G	T	Z	C	N	P	X
06	T	S	I	G	T	Z	C	N	P	X
07	T	S	I	G	T	Z	C	N	P	X
08	T	S	I	G	T	Z	C	N	P	X
09	T	S	I	G	T	Z	C	N	P	X
10	T	S	I	G	T	Z	C	N	P	X
11	T	S	I	G	T	Z	C	N	P	X
12	T	S	I	G	T	Z	C	N	P	X
13	T	S	I	G	T	Z	C	N	P	X
14	T	S	I	G	T	Z	C	N	P	X
15	T	S	I	G	T	Z	C	N	P	X
16	T	S	I	G	T	Z	C	N	P	X
17	T	S	I	G	T	Z	C	N	P	X
18	T	S	I	G	T	Z	C	N	P	X
19	T	S	I	G	T	Z	C	N	P	X
20	T	S	I	G	T	Z	C	N	P	X
21	T	S	I	G	T	Z	C	N	P	X
22	T	S	I	G	T	Z	C	N	P	X
23	T	S	I	G	T	Z	C	N	P	X
24	T	S	I	G	T	Z	C	N	P	X
25	T	S	I	G	T	Z	C	N	P	X
26	T	S	I	G	T	Z	C	N	P	X
27	T	S	I	G	T	Z	C	N	P	X
28	T	S	I	G	T	Z	C	N	P	X
29	T	S	I	G	T	Z	C	N	P	X
30	T	S	I	G	T	Z	C	N	P	X
31	T	S	I	G	T	Z	C	N	P	X
32	T	S	I	G	T	Z	C	N	P	X
33	T	S	I	G	T	Z	C	N	P	X
46	T	S	I	G	T	Z	C	N	P	X
47	T	S	I	G	T	Z	C	N	P	X
48	T	S	I	G	T	Z	C	N	P	X
49	T	S	I	G	T	Z	C	N	P	X
50	T	S	I	G	T	Z	C	N	P	X
51	T	S	I	G	T	Z	C	N	P	X
52	T	S	I	G	T	Z	C	N	P	X
53	T	S	I	G	T	Z	C	N	P	X
54	T	S	I	G	T	Z	C	N	P	X
55	T	S	I	G	T	Z	C	N	P	X
56	T	S	I	G	T	Z	C	N	P	X
57	T	S	I	G	T	Z	C	N	P	X
XX	NON-AUTOMATIC									

SYSTEM (3 PHASE):

#	WIRE	GRD	NEC	NEUT	BWD	FIG
A	3	-	-	-	1A	1A
B	3	G	E	-	1C	1C
D	4	R	E	-	1D	1D
F	4	R	E	-	1E	1E
E	4	D	-	-	1F	1F
C	4	-	-	N	1B	1B
G	4	R	-	N	1G	1G
H	4	R	E	N	20A	20A
I	4	D	-	N	20B	20B
J	4	-	-	-	1A	⑩

X=NON-AUTO
R=RESIDUAL D=DIRECT
N=NEC N=NEUTRAL METERING

CONTROL VOLTAGE:

OPTION	EO BREAKERS ⑤			MO BREAKERS
	MOTOR	CLOSE	TRIP	SHUNT TRIP ④
A	48VDC	48VDC	48VDC	48VDC
B	120VAC	120VAC	120VAC	120VAC
C	125VDC	125VDC	125VDC	125VDC
D	240VAC	240VAC	240VAC	240VAC
E	250VDC	250VDC	250VDC	250VDC
F	120VAC	120VAC	48VDC	-
G	120VAC	120VAC	125VDC ③	-
H	240VAC	240VAC	48VDC	-
I	240VAC	240VAC	125VDC ③	-
J	24VDC	24VDC	24VDC	24VDC
K	48VDC	48VDC	24VDC	32VDC
L	120VAC	120VAC	24VDC	65VAC/28VDC
M	120VAC	120VAC	32VDC	-
N	120VAC	120VAC	65VAC	-
P	120VAC	120VAC	250VDC ③	-
Q	125VDC	125VDC	28VDC	-
R	240VAC	240VAC	24VDC	-
S	240VAC	240VAC	32VDC	-
T	250VDC	250VDC	48VDC	-
U	120VAC	24VDC	24VDC	-
V	240VAC	120VAC	120VAC	-
W	120VAC	48VDC	48VDC	-
Y	120VAC	125VDC	125VDC	-
Z	240VAC	48VDC	48VDC	-
1	240VAC	125VDC	125VDC	-
2	125VDC	125VDC	125VDC	-
3	240VAC	120VAC	120VAC	-
4	125VDC	125VDC	24VDC	-
X	NOT REQUIRED			

MIN. TEST @ 85VDC

ADDITIONAL AUXILIARY CONTACTS: (FOR CUSTOMER USE)

- ① 1A/2B (MANUAL BREAKER WITHOUT SHUNT TRIP ⑤) [6A] = A
- ② 3A/4B (MANUAL BREAKER WITHOUT SHUNT TRIP ⑤) [6A,7A] = B
- ③ 4A/5B (MANUAL BREAKER WITHOUT SHUNT TRIP ⑤) [6A,7B] = C
- ④ 2A/2B (ELECTRIC OR MANUAL BREAKER WITH SHUNT TRIP) [7A] = D
- ⑤ 3A/3B (ELECTRIC OR MANUAL BREAKER WITH SHUNT TRIP ⑥) [7B] = E
- NOT REQUIRED = X

OPTIONAL DEVICES: (SELECT ONLY IF REQUIRED)

- ⬅ A1 = BREAKER DISPLAY UNIT (BDU)
- ⬅ C = CUSTOMIZED WIRING (MUST CONSULT FACTORY)
- ⬅ E = BLOWN FUSE TRIP CONTACT (FOR FUSED BREAKER) [23B] ⑩
- ⬅ G = CLOSE HOOD COVER (FOR E.O. BREAKER)
- ⬅ H = STATIC TRIP SETTING COVER
- ⬅ I = OPERATION COUNTER
- ⬅ J = REMOVE CHARGING HANDLE
- ⬅ K = NO MOC OPERATOR
- ⬅ L = SPRING CHARGE LIGHT [3C] ⑩
- ⬅ N = FUNGUS PROOFING
- ⬅ P = MECHANICAL LOCK OUT
- ⬅ R = 60 HERTZ APPLICATION RATING
- ⬅ V = CHARGE HANDLE EXTENSION

SPECIAL FUSES

- ⬅ F1 = SHAWMUT WELDER FUSES ⑬

DUAL SHUNT TRIP [4C] (UNFUSED BREAKERS ONLY) SEE ④

- T1 = 120VAC DUAL SHUNT TRIP
- T2 = 240VAC DUAL SHUNT TRIP
- T3 = 48VDC DUAL SHUNT TRIP
- T4 = 125VDC DUAL SHUNT TRIP
- T5 = 250VDC DUAL SHUNT TRIP
- T6 = 24VDC DUAL SHUNT TRIP
- T7 = 28VDC DUAL SHUNT TRIP
- T8 = 32VDC DUAL SHUNT TRIP

SPECIAL E.O. BREAKER CIRCUITRY (REPLACE [6D] WITH INDICATED WIRING FIGURE)

- W1 = SEPARATE MOTOR AND CLOSE CIRCUIT [21A]
- W2 = BELL ALARM IN CLOSE CIRCUIT [21B]
- W3 = GREEN LIGHT PARALLELS TRIP COIL [21C]
- W4 = GREEN LIGHT MONITORS TRIP COIL [21D]
- W5 = GREEN LIGHT AND TAP [21E]
- W6 = SEPARATE GREEN LIGHT CIRCUIT [21G]
- W7 = CLOSE COIL MONITOR CIRCUIT [21F]
- W8 = MOTOR DISCONNECT IN MOTOR CIRCUIT ONLY [21H]
- W9 = LATCH CHECK SWITCH [21I]

UNDERVOLTAGE OR ELECTRIC INTERLOCK DEVICES [3A OR 3B] ⑥ ⑩

- U2 = 24VDC UNDERVOLTAGE TRIP DEVICE (DELAY)
- U3 = 48VDC UNDERVOLTAGE TRIP DEVICE (DELAY)
- U4 = 120VAC UNDERVOLTAGE TRIP DEVICE (DELAY)
- U5 = 125VDC UNDERVOLTAGE TRIP DEVICE (DELAY)
- U6 = 48VDC UNDERVOLTAGE TRIP DEVICE (INSTANT)
- U7 = 120VAC UNDERVOLTAGE TRIP DEVICE (INSTANT)
- U8 = 125VDC UNDERVOLTAGE TRIP DEVICE (INSTANT)
- U9 = 24VDC UNDERVOLTAGE TRIP DEVICE (INSTANT)
- M1 = 48VDC ELECTRO-MECHANICAL INTERLOCK
- M2 = 120VAC ELECTRO-MECHANICAL INTERLOCK
- M3 = 125VDC ELECTRO-MECHANICAL INTERLOCK
- M4 = 24VDC ELECTRO-MECHANICAL INTERLOCK ⑪

BELL ALARM CONTACTS

CONTACTS	MANUAL	RESET TYPES						
		24VDC	48VDC	120VAC	125VDC	240VAC	250VDC	
1a	-	N/A	B6	B7	B8	B9	D1	[5F]
1b	-	N/A	D3	D4	D5	D6	D7	[5E]
1a&1b	B1	-	-	-	-	-	-	[5B]
1 FORM C	B2	-	-	-	-	-	-	[5A]
2a	B3	-	-	-	-	-	-	[5D]
2b	B4	-	-	-	-	-	-	[5C]
2 FORM C	D8 ⑫	-	-	-	-	-	-	[5G]

① WIRING FIGURE [4B] IS REQUIRED ON 3200, 4000 AND 5000 AMPERE FRAME SIZES.
 ② STIII COMMUNICATION MODELS SEE FIG. [2A,2B,2C]
 ③ INDICATED CONTROL VOLTAGE COMBINATIONS MAY BE USED WITH CAPACITOR TRIP
 ④ SHUNT TRIP INCLUDES 1a AND 2b AUX CONTACTS [6B,4A] AS STANDARD, 2b IF DUAL SHUNT TRIP IS REQUIRED [6B][4C] OR 1a & 1b IF FUSE COIL IS REQUIRED [6C][4B].
 ⑤ SELECTION INCLUDES ADDITIONAL 1a AUX CONTACT [4A] AS STANDARD, UNLESS FUSE COIL [4B] OR DUAL SHUNT TRIP [4C] IS REQUIRED.
 ⑥ AUX CONTACT SELECTION C & E NOT AVAILABLE WITH UV OR E-M INTERLOCK ON SMALL FRAME BREAKER (800A-2000A).
 ⑦ 12 POINT DISC. NOT AVAILABLE ON FUSED BREAKER WITH SHUTTERS.
 ⑧ MOC OPERATOR NOT AVAILABLE WITH 3 STAGE AUX SWITCH.
 ⑨ SYSTEM OPTION J AVAILABLE ONLY WITH COMMUNICATIONS & NO GROUND FAULT.
 ⑩ ONLY ONE OF THE FOLLOWING OPTIONS MAY BE SELECTED: E,L,U2-U9,M1-M3
 ⑪ REQUIRES OPTION V9 WHEN USED ON E.O. BREAKER
 ⑫ 2 FORM C BELL ALARM CONTACTS NOT AVAILABLE WITH OPTIONS E,L,U2-U9,M1-M3
 ⑬ THE F1 OPTION IS ONLY VALID FOR SMALL FRAME BREAKERS (800A-2000A), AND THE ONLY AVAILABLE FUSE OPTIONS ARE 1600A, 2000A, & 2500A.
 ⑭ FUSE SIZES, OTHER THAN THOSE LISTED IN THIS TABLE, ARE NOT AVAILABLE WITHOUT SPECIAL CONSIDERATION FROM DESIGN ENGINEERING. AFTER APPROVAL OF DESIGN ENGINEERING, OPTION 'S' WILL BE CHOSEN TO INDICATE THE USE OF A NON-STANDARD FUSE SIZE.

STANDARD DRAWING
DO NOT DESTROY, CHANGE OR ADD MARKS WITHOUT APPROVAL OF DESIGN ENGINEERING.

USED ON RL LVPCB (BODY) ⑤

* CAD GENERATED, DO NOT CHANGE MANUALLY.

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01	02	03	04	05
ADDED CONTROL VOLTAGE OPTION "V" (SPECIAL SIZE)	ADDED FUSE OPTION "F" (SPECIAL SIZE)	ADDED TRIP OPTION "T" (SPECIAL SIZE)	ADDED SHUNT TRIP OPTION "S" (SPECIAL SIZE)	ADDED MOC OPTION "M" (SPECIAL SIZE)
01-06-02	10/23/02	05-16-03	05-22-06	01-29-07

DATE: 01-29-07

SCALE: 1X

SHEET NO. 1 - F