SIEMENS ENERGY & AUTOMATION

TYPE RL 600V ACB CATALOG NOMENCLATURE:

RL —

CONNECTION:
DRAWOUT = A
STATIONARY = B

INTERRUPTING TYPE:
RL = S (800 THRU 4000A)
RLE = E (800, 2000, 4000A ONLY)
RLI = I (800A ONLY)
RLF = F (800 THRU 4000A DRAWOUT ONLY)

FRAME:
800 = 8
1600 = 1
2000 = 2
3200 = 3
4000 = 4

OPERATION:
MANUAL = M
ELECTRIC/MANUAL [6D] = E

CURRENT SENSORS:

	FRAME SIZE					
	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
600\.5	X	X	X	–	–	AF
800\.5	X	X	X	–	–	AG
1200\.5	–	X	X	X	–	AH
1600\.5	–	X	X	X	X	AI
2000\.5	–	–	X	X	X	AJ
2400\.5	–	–	–	X	–	AK
3000\.5	–	–	–	X	–	AL
3200\.5	–	–	–	X	X	AM
4000\.5	–	–	–	–	X	AN
3200\.5	–	–	–	X	X	AQ
4000\.5	–	–	–	–	X	AR
NON-AUTOMATIC						XX

DUAL WOUND SENSORS 1200A MAX. PER NEC

CURRENT LIMITING FUSES:

	FRAME SIZE*					
	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	X	X	–	–	H
2000A	–	X	X	X	X	I
2500A	–	X	X	X	X	J
3000A	–	X	X	X	X	K
4000A	–	–	X	X	X	L
5000A	–	–	–	X	X	M
6000A	–	–	–	–	X	N
UNFUSED	X	X	X	X	X	X

* WIRING FIGURE [4B] IS REQUIRED ON 3200 AND 4000 AMPERE FRAME SIZES.

SYSTEM (3 PHASE):

A = 3 WIRE WITH OR WITHOUT GROUND [1A]
B = 3 WIRE WITH GROUND AND NEC [1C]
C = 4 WIRE WITHOUT GROUND WITH NEUTRAL METERING [1B]
D = 4 WIRE RESIDUAL [1D]
E = 4 WIRE DIRECT [1F]
F = 4 WIRE RESIDUAL AND NEC [1E]
G = 4 WIRE RESIDUAL WITH GROUND AND NEUTRAL METERING [1G]
H = 4 WIRE WITH NEUTRAL METERING AND NEC [20A]
I = 4 WIRE DIRECT WITH NEUTRAL METERING [20B]
X = NON-AUTOMATIC

STATIC TRIP III*:

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

* COMMUNICATION MODELS SEE FIG. [2A,2B,2C].

CONTROL VOLTAGE:

	EO/MO BREAKERS			MO BREAKERS
	MOTOR	CLOSE	TRIP	SHUNT TRIP**
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*	–
H	240VAC	240VAC	48VDC	–
I	240VAC	240VAC	125VDC*	–
J	24VDC	24VDC	24VDC	24VDC
K	48VDC	48VDC	24VDC	32VDC
L	120VAC	120VAC	24VDC	65VAC/28VDC
M	120VAC	120VAC	32VDC	–
N	120VAC	120VAC	65VAC	–
O	120VAC	120VAC	250VDC*	–
P	125VDC	125VDC	28VDC	–
Q	125VDC	125VDC	120VAC	–
R	240VAC	240VAC	24VDC	–
S	240VAC	240VAC	32VDC	–
T	250VDC	250VDC	48VDC	–
U	120VAC	24VDC	24VDC	–
W	120VAC	48VDC	48VDC	–
Y	120VAC	125VDC	125VDC	–
Z	240VAC	48VDC	48VDC	–
X	NOT REQUIRED			

* MAY BE USED WITH CAPACITOR TRIP
** INCLUDES 1a AND 2b AUX CONTACTS [6B,4A] IS STANDARD, UNLESS FUSE COIL [4B] OR DUAL SHUNT TRIP [4C] IS REQUIRED. THEN 1a AND 1b [6C] IS STANDARD.

OPTIONAL DEVICES: (SELECT ONLY IF REQUIRED)

A1 = BREAKER DISPLAY UNIT (BDU)
C = CUSTOMIZED BREAKER (MUST CONSULT FACTORY)
G = CLOSE HOOD COVER
H = STATIC TRIP SETTING COVER
I = OPERATION COUNTER
J = REMOVE CHARGING HANDLE
L = SPRING CHARGE LIGHT [3C]
N = FUNGUS PROOFING
R = 60Hz APPLICATION RATING
V = CHARGE HANDLE EXTENSION

SPECIAL FUSES
F1 = SHAWMUT WELDER FUSES
F2 = RELIANCE FUSES
F4 = CARBONE-FARRAZ FUSES

DUAL SHUNT TRIP [4C] (UNFUSED BREAKERS ONLY)
T1 = 48VDC/120VAC DUAL SHUNT TRIP
T2 = 240VAC/125VDC DUAL SHUNT TRIP
T3 = 250VDC DUAL SHUNT TRIP
T4 = 24VDC DUAL SHUNT TRIP
T5 = 65VAC/28VDC DUAL SHUNT TRIP
T6 = 32VDC DUAL SHUNT TRIP

SPECIAL ELECTRICAL BREAKER CIRCUITS (REFERENCE WIRING FIGURES)
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]*
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/125VDC ELECTRO-MECHANICAL INTERLOCK
M3 = 240VAC/250VDC ELECTRO-MECHANICAL INTERLOCK
* AUXILIARY CONTACT SELECTION E IS NOT AVAILABLE WITH THIS OPTION.

BELL ALARM CONTACTS

	RESET TYPES							
	MANUAL	24VDC	48VDC	120VAC	125VDC	240VAC	250VDC	
1a	–	B5	B6	B7	B8	B9	D1	[5F]
1b	–	D2	D3	D4	D5	D6	D7	[5E]
1a&1b	B1	–	–	–	–	–	–	[5B]
1 FORM C	B2	–	–	–	–	–	–	[5A]
2a	B3	–	–	–	–	–	–	[5D]
2b	B4	–	–	–	–	–	–	[5C]

AUXILIARY CONTACTS: (FOR CUSTOMER USE)

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

* ADDITIONAL 1a AUX CONTACT [4A] IS STANDARD, UNLESS FUSE COIL [4B] OR DUAL SHUNT TRIP [4C] OR SHUNT TRIP [6B,6C] IS REQUIRED.

SIEMENS ENERGY & AUTOMATION

TYPE RL 600V ACB CATALOG NOMENCLATURE:

EXAMPLE SHEET (SEE PAGE III-3 FOR EXAMPLE PRICING)

RL	—	A	S	8	E	A	G	X	B	D	2	7	D	—	A	1	H	B	2						

CONNECTION:
DRAWOUT = A
STATIONARY = B

INTERRUPTING TYPE:
RL = S (800 THRU 4000A)
RLE = E (800, 2000, 4000A ONLY)
RLI = I (800A ONLY)
RLF = F (800 THRU 4000A DRAWOUT ONLY)

FRAME:
800 = 8
1600 = 1
2000 = 2
3200 = 3
4000 = 4

OPERATION:
MANUAL = M
ELECTRIC/MANUAL [6D] = E

CURRENT SENSORS:

	FRAME SIZE 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
600\.5	X	X	X	–	–	AF
800\.5	X	X	X	–	–	AG
1200\.5	–	X	X	X	–	AH
1600\.5	–	X	X	X	X	AI
2000\.5	–	–	X	X	X	AJ
2400\.5	–	–	–	X	–	AK
3000\.5	–	–	–	X	–	AL
3200\.5	–	–	–	X	X	AM
4000\.5	–	–	–	–	X	AN
3200\.5	–	–	–	X	X	AQ
4000\.5	–	–	–	–	X	AR
NON-AUTOMATIC						XX

DUAL WOUND SENSORS 1200A MAX. PER NEC

CURRENT LIMITING FUSES:

	FRAME SIZE* 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	X	X	–	–	H
2000A	–	X	X	X	X	I
2500A	–	X	X	X	X	J
3000A	–	X	X	X	X	K
4000A	–	–	X	X	X	L
5000A	–	–	–	X	X	M
6000A	–	–	–	–	X	N
UNFUSED	X	X	X	X	X	X

* WIRING FIGURE [4B] IS REQUIRED ON 3200 AND 4000 AMPERE FRAME SIZES.

SYSTEM (3 PHASE):
A = 3 WIRE OR 3 WIRE WITH GROUND [1A]
B = 3 WIRE WITH GROUND AND NEC [1C]
C = 4 WIRE WITHOUT GROUND WITH NEUTRAL METERING [1B]
D = 4 WIRE RESIDUAL [1D]
E = 4 WIRE DIRECT [1F]
F = 4 WIRE RESIDUAL AND NEC [1E]
G = 4 WIRE RESIDUAL WITH GROUND AND NEUTRAL METERING [1G]
H = 4 WIRE WITH NEUTRAL METERING AND NEC [20A]
I = 4 WIRE DIRECT WITH NEUTRAL METERING [20B]
X = NON-AUTOMATIC

STATIC TRIP III*:

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

* COMMUNICATION MODELS SEE FIG. [2A,2B,2C].

CONTROL VOLTAGE:

	EO/MO BREAKERS MOTOR	CLOSE	TRIP	MO BREAKERS SHUNT TRIP**
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*	–
H	240VAC	240VAC	48VDC	–
I	240VAC	240VAC	125VDC*	–
J	24VDC	24VDC	24VDC	24VDC
K	48VDC	48VDC	24VDC	32VDC
L	120VAC	120VAC	24VDC	65VAC/28VDC
M	120VAC	120VAC	32VDC	–
N	120VAC	120VAC	65VAC	–
O	120VAC	120VAC	250VDC*	–
P	125VDC	125VDC	28VDC	–
Q	125VDC	125VDC	120VAC	–
R	240VAC	240VAC	24VDC	–
S	240VAC	240VAC	32VDC	–
T	250VDC	250VDC	48VDC	–
U	120VAC	24VDC	24VDC	–
W	120VAC	48VDC	48VDC	–
Y	120VAC	125VDC	125VDC	–
Z	240VAC	48VDC	48VDC	–
X	NOT REQUIRED			

* MAY BE USED WITH CAPACITOR TRIP
** INCLUDES 1a AND 2b AUX CONTACTS [6B,4A] IS STANDARD, UNLESS FUSE COIL [4B] OR DUAL SHUNT TRIP [4C] IS REQUIRED. THEN 1a AND 1b [6C] IS STANDARD.

OPTIONAL DEVICES: (SELECT ONLY IF REQUIRED)
A1 = BREAKER DISPLAY UNIT (BDU)
C = CUSTOMIZED BREAKER (MUST CONSULT FACTORY)
G = CLOSE HOOD COVER
H = STATIC TRIP SETTING COVER
I = OPERATION COUNTER
J = REMOVE CHARGING HANDLE
L = SPRING CHARGE LIGHT [3C]
N = FUNGUS PROOFING
R = 60Hz APPLICATION RATING
V = CHARGE HANDLE EXTENSION

SPECIAL FUSES
F1 = SHAWMUT WELDER FUSES
F2 = RELIANCE FUSES
F4 = CARBONE-FARRAZ FUSES

DUAL SHUNT TRIP [4C]
T1 = 48VDC/120VAC DUAL SHUNT TRIP
T2 = 240VAC/125VDC DUAL SHUNT TRIP
T3 = 250VDC DUAL SHUNT TRIP
T4 = 24VDC DUAL SHUNT TRIP
T5 = 65VAC/28VDC DUAL SHUNT TRIP
T6 = 32VDC DUAL SHUNT TRIP

SPECIAL ELECTRICAL BREAKER CIRCUITS (REFERENCE WIRING FIGURES)
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]*
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/125VDC ELECTRO-MECHANICAL INTERLOCK
M3 = 240VAC/250VDC ELECTRO-MECHANICAL INTERLOCK
* AUXILIARY CONTACT SELECTION E IS NOT AVAILABLE WITH THIS OPTION.

BELL ALARM CONTACTS

	RESET TYPES MANUAL	24VDC	48VDC	120VAC	125VDC	240VAC	250VDC	
1a	–	B5	B6	B7	B8	B9	D1	[5F]
1b	–	D2	D3	D4	D5	D6	D7	[5E]
1a&1b	B1	–	–	–	–	–	–	[5B]
1 FORM C	B2	–	–	–	–	–	–	[5A]
2a	B3	–	–	–	–	–	–	[5D]
2b	B4	–	–	–	–	–	–	[5C]

AUXILARY CONTACTS: (FOR CUSTOMER USE)
A = 1A/2B (MANUAL BREAKER WITHOUT SHUNT TRIP*) [6A]
B = 3A/4B (MANUAL BREAKER WITHOUT SHUNT TRIP*) [6A,7A]
C = 4A/5B (MANUAL BREAKER WITHOUT SHUNT TRIP*) [6A,7B]
D = 2A/2B (ELECTRIC OR MANUAL BREAKER WITH SHUNT TRIP) [7A]
E = 3A/3B (ELECTRIC OR MANUAL BREAKER WITH SHUNT TRIP) [7B]
X = NOT REQUIRED
* ADDITIONAL 1a AUX CONTACT [4A] IS STANDARD, UNLESS FUSE COIL [4B] OR DUAL SHUNT TRIP [4C] OR SHUNT TRIP [6B,6C] IS REQUIRED.