





**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	S	I	G	T	Z				
08	T	S	I	G	T	Z				
09	T	S	I	G	T	Z				
10	T	S	I	G	T	Z	C			
11	T	S	I	G	T	Z	C			
12	T	S	I	G	T	Z	C	N		
13	T	S	I	G	T	Z	C	N	P	
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										

\* 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	88VDC	-
Q	125VDC	125VDC	120VAC	-
R	240VAC	240VAC	24VDC	-
S	240VAC	240VAC	32VDC	-
T	250VDC	250VDC	48VDC	-
U	120VAC	24VDC	24VDC	-
V	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
1b	-	D2	D3	D4	D5	D6	D7
1a&1b	B1	-	-	-	-	-	-
1 FORM C	B2	-	-	-	-	-	-
2a	B3	-	-	-	-	-	-
2b	B4	-	-	-	-	-	-

**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.

**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	AO
4000\5	-	-	-	-	X	AR
						XX

NON-AUTOMATIC

**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
UNUSED	X	X	X	X	X	X

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