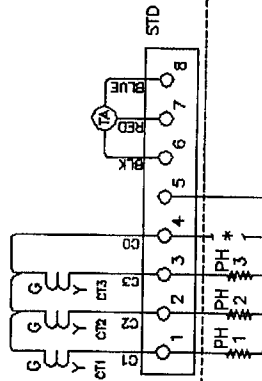


2

STATIC TRIP III "3W" OR "3WG"
NO GROUND FAULT OR WITH GROUND FAULT
NO NEUTRAL METERING
1 WINDING



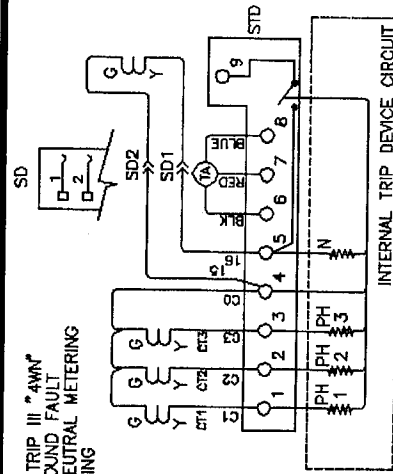
INTERNAL TRIP DEVICE CIRCUIT
* WITH OR WITHOUT GRD. ELEMENT

WIRE NO.	FROM	TO	WIRE
C1	CT1-Y	STD-1	18
C2	CT2-Y	STD-2	18
C3	CT3-Y	STD-3	18
C0	CT1-G	STD-4	18
C0	CT2-G	STD-5	18
C0	CT3-G	STD-6	18
TA1	RED	STD-7	+
TA2	BLACK	STD-8	+
TA3	BLUE	STD-8	+

1A

1

STATIC TRIP III "4W"
NO GROUND FAULT
WITH NEUTRAL METERING
1 WINDING



WIRE NO.	FROM	TO	WIRE
C1	CT1-Y	STD-1	18
C2	CT2-Y	STD-2	18
C3	CT3-Y	STD-3	18
C0	CT1-G	STD-4	18
C0	CT2-G	STD-5	18
C0	CT3-G	STD-6	18
TA1	RED	STD-7	+
TA2	BLACK	STD-8	+
TA3	BLUE	STD-8	+

1B

+ DEVICE LEADS

DEVICE LIST

CT1 - CURRENT SENSOR PHASE 1 (OR) A
SD - SECONDARY DISCONNECT
STD - STATIC TRIP DEVICE
TA - TRIP ACTUATOR

STANDARD DRAWING
DO NOT DESTROY, CHANGE OR
ADD MARKS W/O APPROVAL
OF DESIGN ENGINEERING.

USED DN 2R

A

* CAD GENERATED, DO NOT CHANGE MANUALLY.

01 07-08-93		02 08-23-93		03 07-30-94	
UPDATED WIRING DIAG.		REVISOR WIRING DIAGRAM		REV L V 9310-93	
RCW		RCW		RCW	
MATERIAL FIG. [1A], [1B]					
PART NAME 24-5					
STANDARD CONNECTION DIAGRAMS FOR					
STATIC TRIP III DEVICE					
N-C CURRENT DATE		PART NUMBER 9-18		ISS. 07	
07-30-94		18-748-279-400		03	
N.M. 4-46		SCALE 49-55		NONE	
1-24		1-24		1-24	

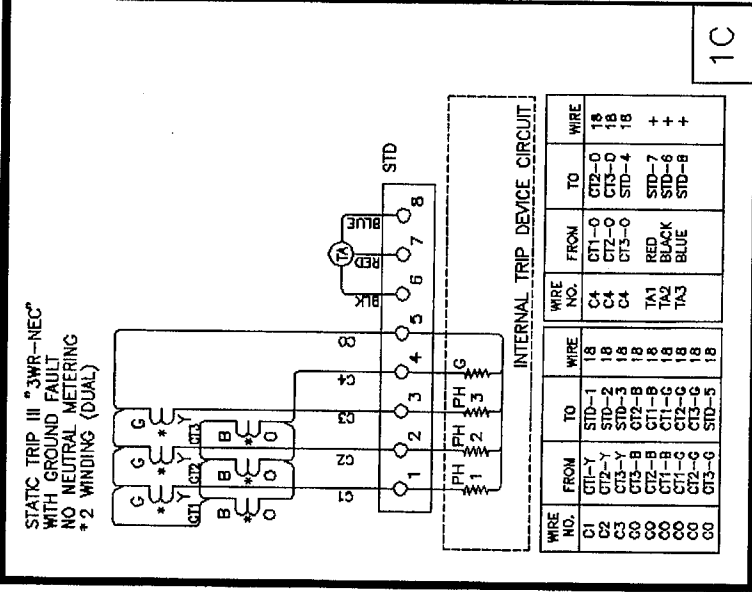
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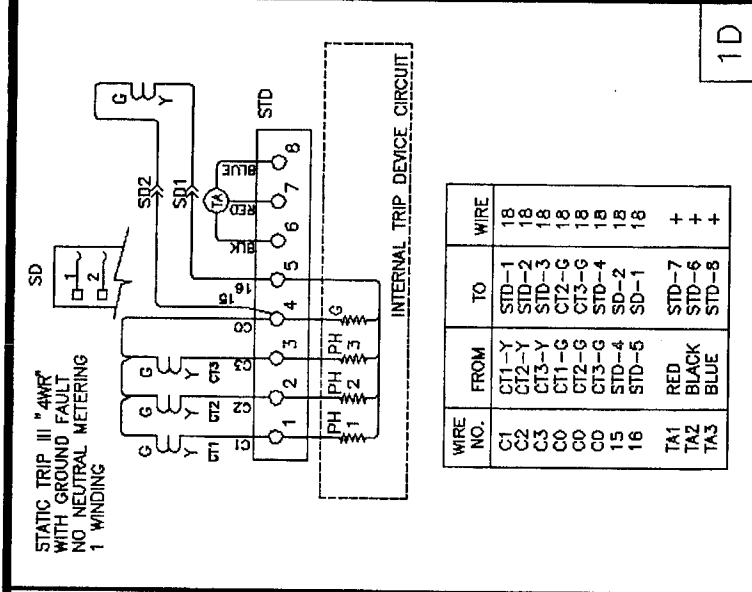
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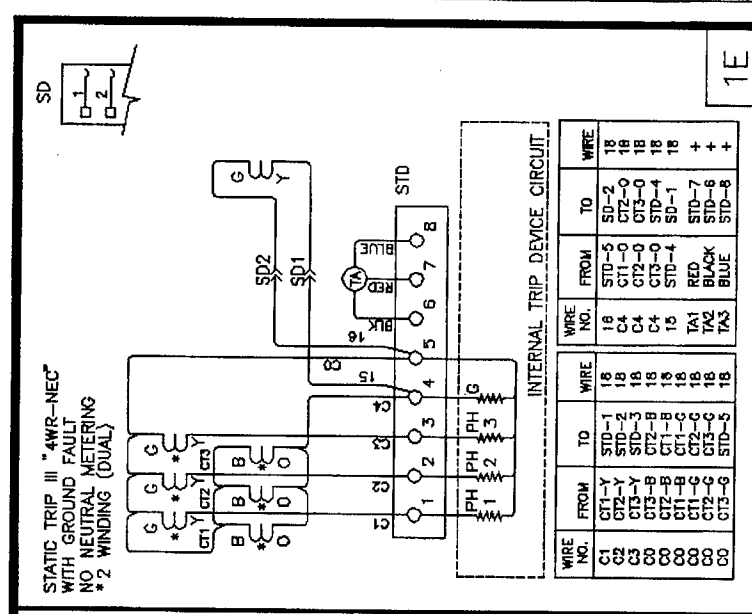
2



1



1



+ DEVICE LEADS

DEVICE LIST

- CT1 - CURRENT SENSOR PHASE 1 (OR) A
- SD - SECONDARY DISCONNECT
- STD - STATIC TRIP DEVICE
- TA - TRIP ACTUATOR

USED DN

26

A

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01 07-06-93
SEE SHEET #1.

07-06-93
N-C CURRENT DATE PART NUMBER 8-19
C 07-30-94 18-748-279-400 03
MATERIAL FIG. [1C], [1D], [1E]
PART NAME 18-748-279-400 03
TYPE 22 REP 23 STANDARD CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE
SCALE 48-53 NONE SHEET NO. 2-24

1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01

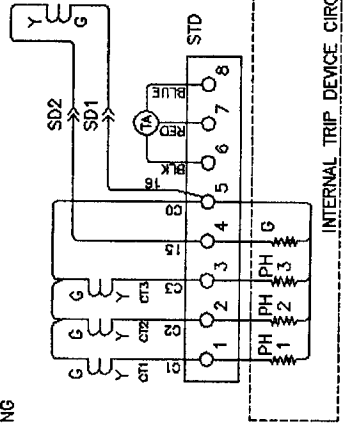
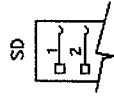
DATA BASE \RIPK\8M280YW

SIMILAR TO
OR AHT BULLETIN
CH SEM
TECH APP 07 / 94

Q:\RLTEMP\1DEF

2

STATIC TRIP III "4WD"
WITH GROUND FAULT
NO NEUTRAL METERING
1 WINDING



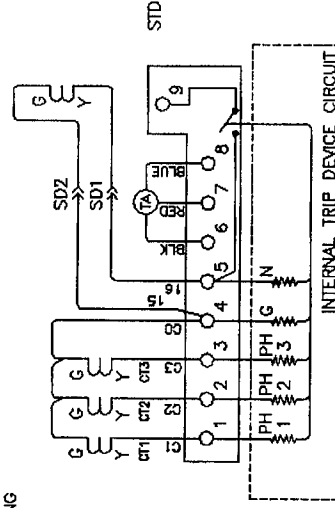
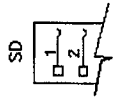
WIRE NO.	FROM	TO	WIRE
C1	CT1-Y	STD-1	18
C2	CT2-Y	STD-2	18
C3	CT3-Y	STD-3	18
C0	CT1-G	CT2-G	18
C0	CT2-G	CT3-G	18
C0	CT3-G	STD-5	18
15	STD-4	STD-2	18
16	STD-5	STD-1	18
TA1	RED	STD-7	+
TA2	BLACK	STD-6	+
TA3	BLUE	STD-8	+

+ DEVICE LEADS

DEVICE LIST
CT1 - CURRENT SENSOR PHASE 1 (OR) A
SD - SECONDARY DISCONNECT
STD - STATIC TRIP DEVICE
TA - TRIP ACTUATOR
TC - SHUNT TRIP COIL

1

STATIC TRIP III "4WRN"
WITH GROUND FAULT
WITH NEUTRAL METERING
1 WINDING



WIRE NO.	FROM	TO	WIRE
C1	CT1-Y	STD-1	18
C2	CT2-Y	STD-2	18
C3	CT3-Y	STD-3	18
C0	CT1-G	CT2-G	18
C0	CT2-G	CT3-G	18
C0	CT3-G	STD-5	18
15	STD-4	STD-2	18
16	STD-5	STD-1	18
TA1	RED	STD-7	+
TA2	BLACK	STD-6	+
TA3	BLUE	STD-8	+

STANDARD DRAWING
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ADD MARKS WITHOUT APPROVAL
OF DESIGN ENGINEERING

USED ON

2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

01		07-06-93		SEE SHEET #1.	
MATERIAL		FIG. [1F], [1G]		PART NAME 24-43	
TYPE 22		REPL 23		STANDARD CONNECTION DIAGRAMS FOR	
N-C		CURRENT DATE		PART NUMBER B-10	
C		07-30-94		18-748-279-400	
N.M.		44-48		SCALE	
NONE		49-53		NONE	
3-24		3-24		3-24	

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2A

WIRE NO.	FROM	TO	SIZE
51	STP-1	FRAME	18
52	STP-2	CD-2	22
53	STP-3	CD-3	22
54	STP-4	CD-4	22
55	STP-5	CD-5	22
56	SHLD TERM	SHIELD	STP-1
57	STP-7	LS-21	22
58	STP-8	CD-8	22
59	STP-9	CD-9	22
59	STP-9	YC-9	22
59	STP-9	YC-9	22
510	STP-10	LS-22	22
510	STP-10	CD-10	22
510	STP-10	YC-10	22
510	STP-10	YC-10	22

DEVICE LEGEND

STP	-	STATIC TRIP PORT
LS	-	LIMIT SWITCH
CD	-	COMMUNICATION DISCONNECT
YC	-	REMOTE CLOSE RELAY
PWR	-	POWER SUPPLY INPUT
DATA	-	COMMUNICATION DATA TERMINALS

DEVICE LEGEND

TRIP PORT
- STATC
LEGEND
DEVICE

L5 - LIMIT SWITCH

CD — COMMUNICATION DISCONNECT

- REMOVE CLOSE RELAY
- POWER SUPPLY INPUT

DATA - COMMUNICATION DATA TERMINALS

STANDARD DRAWING
DO NOT DESTROY, CHANGE OR
ADD MARK NO'S W/O APPROVAL
OF DESIGN ENGINEERING.
NOT CHANGE MANUALLY.

USED ON

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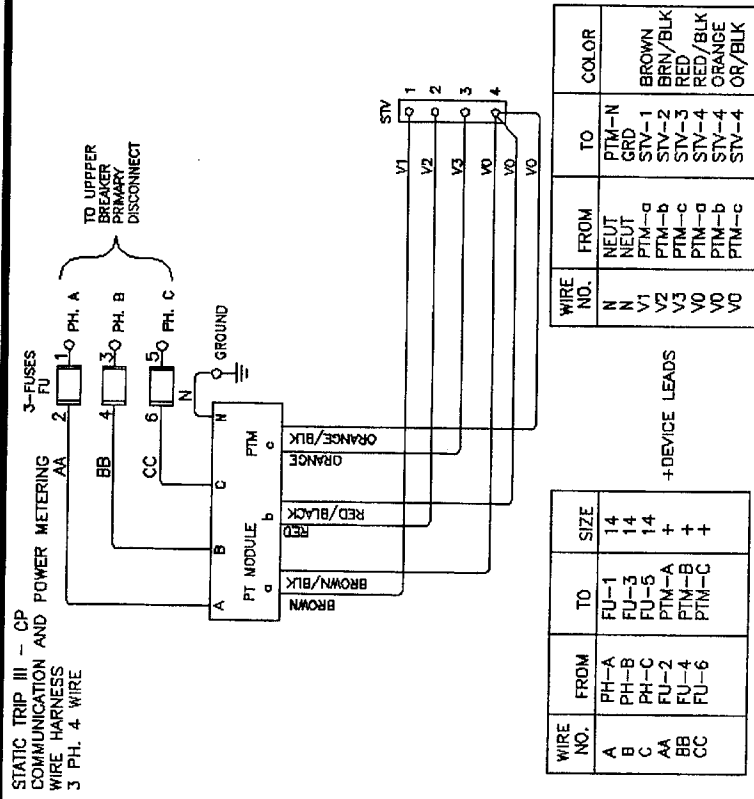
20-21	100	100
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779-400 103

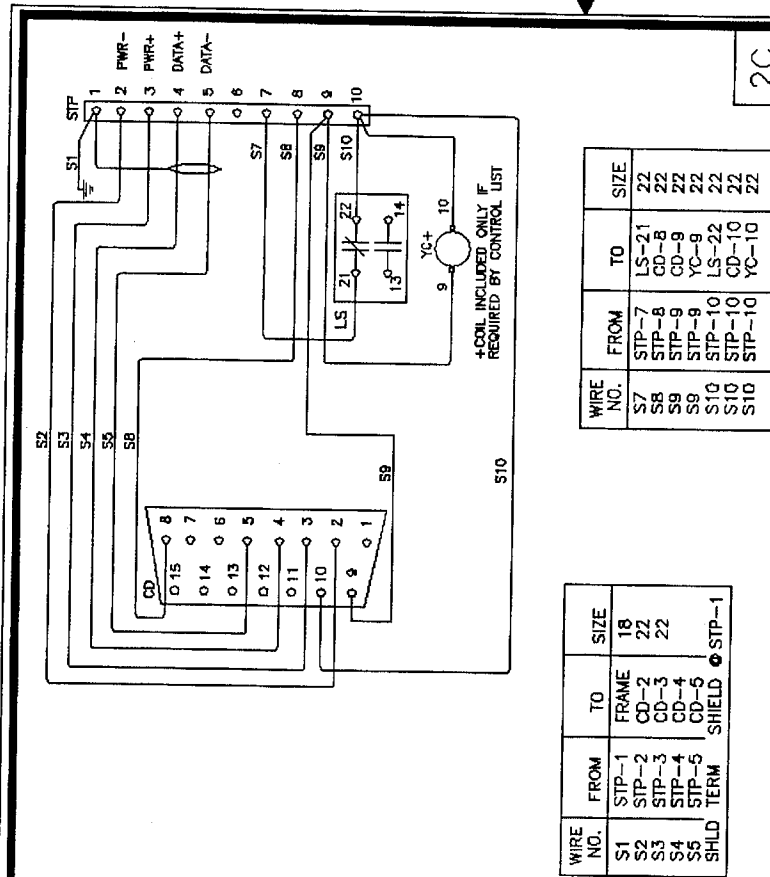
SHEET NO.

4-24

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2



2C

DEVICE LIST

- FU - POWER FUSE
- GRD - GROUND CONNECTION
- PH - PHASE VOLTAGE
- PTM - POTENTIAL TRANSFORMER MODULE
- STV - STATIC TRIP VOLTAGE PORT
- STP - STATIC TRIP PORT
- CD - COMMUNICATIONS DISCONNECT
- LS - LIMIT SWITCH
- YC - REMOTE CLOSE RELAY
- PWR - POWER SUPPLY INPUT
- DATA - COMMUNICATIONS DATA TERMINALS

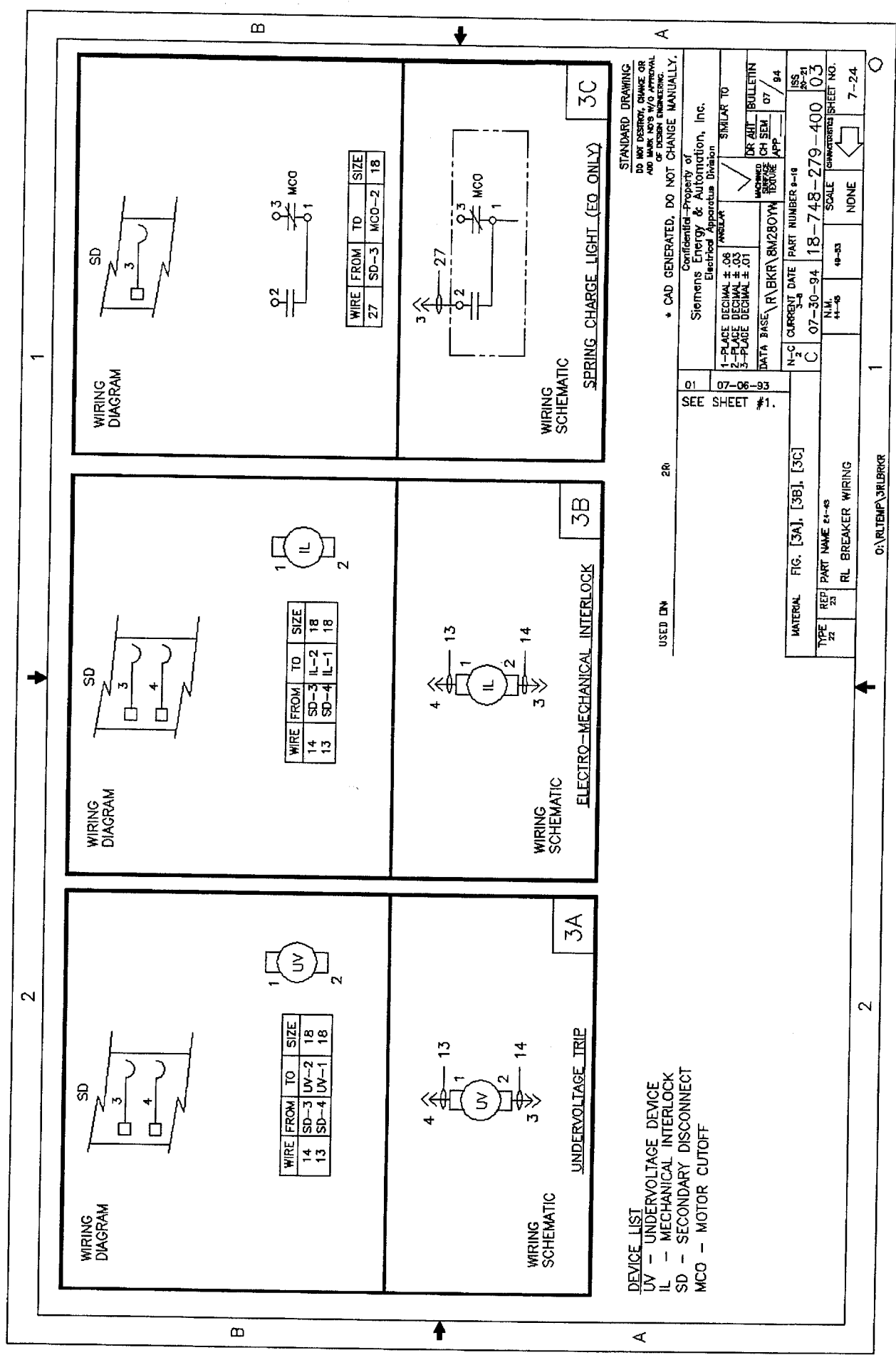
STANDARD DRAWING
DO NOT DESTROY, CHANGE OR
AND MARK NO'S W/O APPROVAL
OF DESIGN ENGINEER

USED IN

2C

* CAD GENERATED, DO NOT CHANGE MANUALLY.

01		07-06-93	
SEE SHEET #1.			
MATERIAL FIG. [2C]			
N-C		CURRENT DATE PART NUMBER 8-19	
C		07-30-94 18-748-279-400	
TYPE		REVISION	
22		23	
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670			



DEVICE LIST
 UV - UNDERVOLTAGE DEVICE
 IL - MECHANICAL INTERLOCK
 SD - SECONDARY DISCONNECT
 MCO - MOTOR CUTOFF

STANDARD DRAWING
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USED ON 2R

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1-PLACE DECIMAL ± .08
 2-PLACE DECIMAL ± .03
 3-PLACE DECIMAL ± .01

DATA BASE: R/BKR/8M280YM

N-C CURRENT DATE: PART NUMBER: 18

ISS: 10-91

18-748-279-400 103

TYPE: 22 REP: 23 PART NAME: 24-45 RL BREAKER WIRING

N/A 14-16 SCALE: 49-53 NONE 7-24

0:\RTEMP\3RLBRK

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WIRING DIAGRAM

SD

AS

WIRE	FROM	TO	SIZE
1	SD-12	AS-3	14
2	SD-11	AS-4	14
3	SD-14	AS-7	14
4	SD-13	AS-8	14
5	SD-16	AS-1	14
6	SD-15	AS-2	14

WIRING SCHEMATIC

6A

AUXILIARY CONTACTS FOR 60A BREAKER

WIRING DIAGRAM

SD

AS

WIRE	FROM	TO	SIZE
1	SD-16	AS-4	14
2	SD-15	AS-2	18
2A	AS-1	TC-2	18
3	SD-14	AS-7	14
4	SD-13	AS-8	14
5	SD-12	AS-3	14
6	SD-11	TC-1	18

WIRING SCHEMATIC

6B

STANDARD SHUNT TRIP FOR 60A BREAKER

WIRING DIAGRAM

SD

AS

WIRE	FROM	TO	SIZE
1	SD-16	AS-6	14
2	SD-15	AS-2	18
2A	AS-1	TC-2	18
3	SD-14	AS-3	14
4	SD-13	AS-4	14
5	SD-12	AS-5	14
6	SD-11	TC-1	18

WIRING SCHEMATIC

6C

STANDARD SHUNT TRIP FOR LARGE FRAME FUSED
[NO BREAKERS ONLY - FIG. 5A NOT AVAILABLE]

DEVICE LIST

- AS - AUXILIARY SWITCH
- SD - SECONDARY DISCONNECT
- TC - SHUNT TRIP COIL
- a - AUXILIARY SWITCH CONTACT
- b - OPEN WHEN BREAKER IS OPEN
- AUXILIARY SWITCH CONTACT
- CLOSED WHEN BREAKER IS OPEN

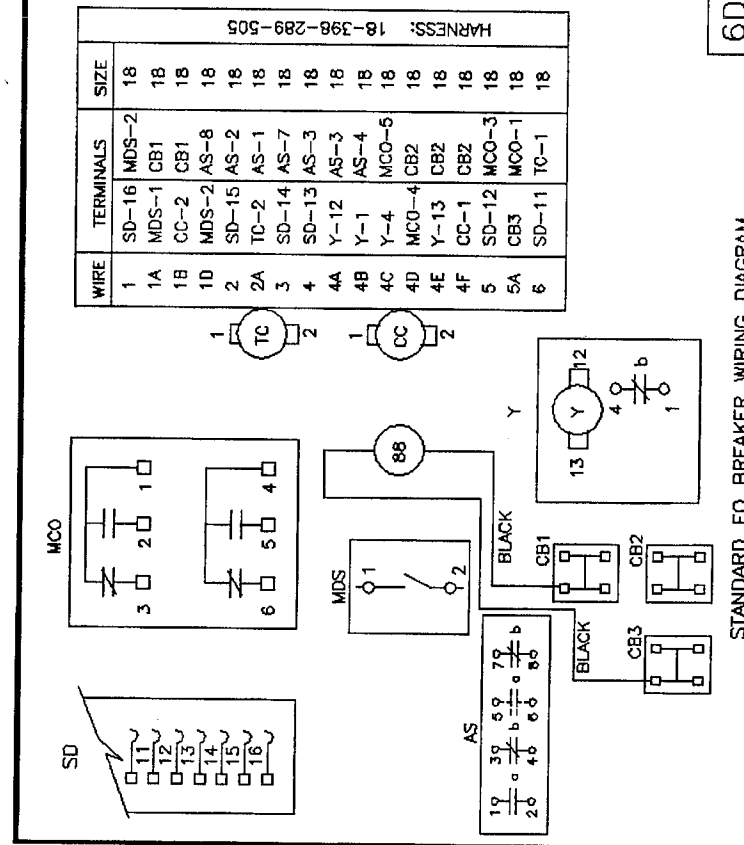
STANDARD DRAWING
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ADD MARKS WITHOUT APPROVAL
OF DESIGN ENGINEER.

USED ON: 2R

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01	07-06-83	DR AHT	BULLETIN
SEE SHEET #1.		CH SEM	07/94
DATA BASE: R\BK\8M280YM		APPROVED	
N-C		CURRENT DATE	
C		PART NUMBER 8-19	
MATERIAL FIG. [6A], [6B], [6C]		ISS	
TYPE 22		20-21	
REP. NAME 24-43		18-748-279-400	
RL BREAKER WIRING		SCALE	
44-48		NONE	
11-24		11-24	

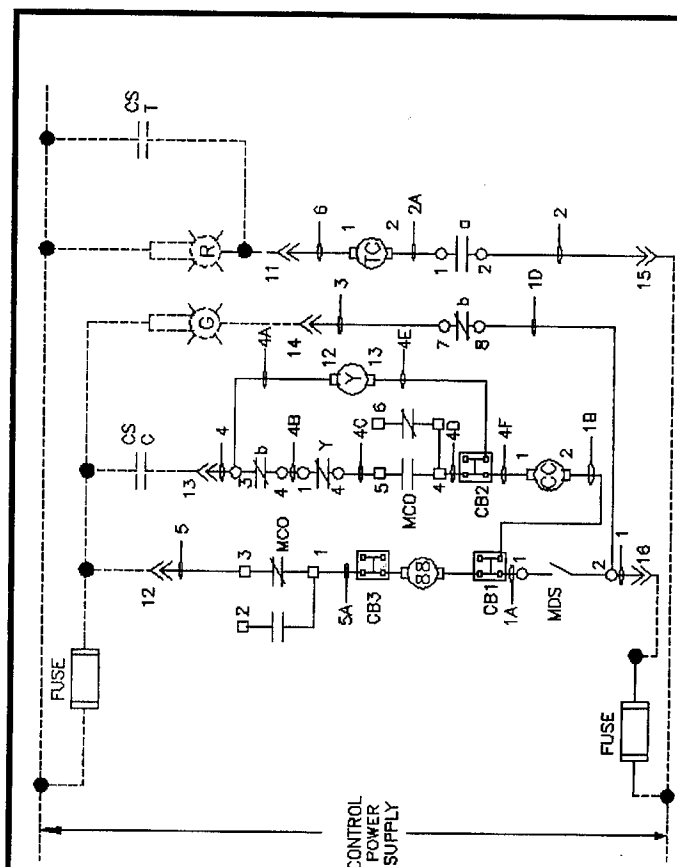
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6D

STANDARD EO BREAKER WIRING DIAGRAM

1



6D

STANDARD EO BREAKER SCHEMATIC

DEVICE LIST

- CC - CLOSING COIL (SPRING RELEASE)
- TC - SHUNT TRIP COIL
- MCO - SPRING CHARGING MOTOR
- MDS - MOTOR CUTOFF SWITCH
- Y - MOTOR ON-OFF SWITCH
- a - CLOSING RELAY, ANTI-PUMP
- b - AUXILIARY SWITCH CONTACT
- OPEN WHEN BREAKER IS OPEN
- CLOSED WHEN BREAKER IS OPEN
- R - RED INDICATOR LAMP, BKR. CLOSED
- G - GREEN INDICATOR LAMP, BKR. OPEN
- CS/T - CONTROL SWITCH, TRIP CONTACT
- AS - AUXILIARY SWITCH
- SD - SECONDARY DISCONNECT

CLASS "C" WIRING

#14 WIRE SIS. 00-557-286-341

#18 WIRE SIS. 00-557-286-003

□ - SINGLE FASTON TAB

○ - ONE CONNECTION ONLY

○ - MULTIPLE CONNECTIONS POSSIBLE

STANDARD DRAWING
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ALTER WITHOUT APPROVAL
OF DESIGN ENGINEERING

USED IN: 2R1

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01 07-08-93
02 08-23-93 AHT
SEE SHEET #1.

UPDATED WIRING AND
SCHEMATIC DIAGRAMS

1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01

DATA BASE: R/BKR/8M280YH

N-C CURRENT DATE PART NUMBER 8-18
C 07-30-94 18-748-279-400

ISS 20-21 03

N.M. 44-16

SCALE 40-33

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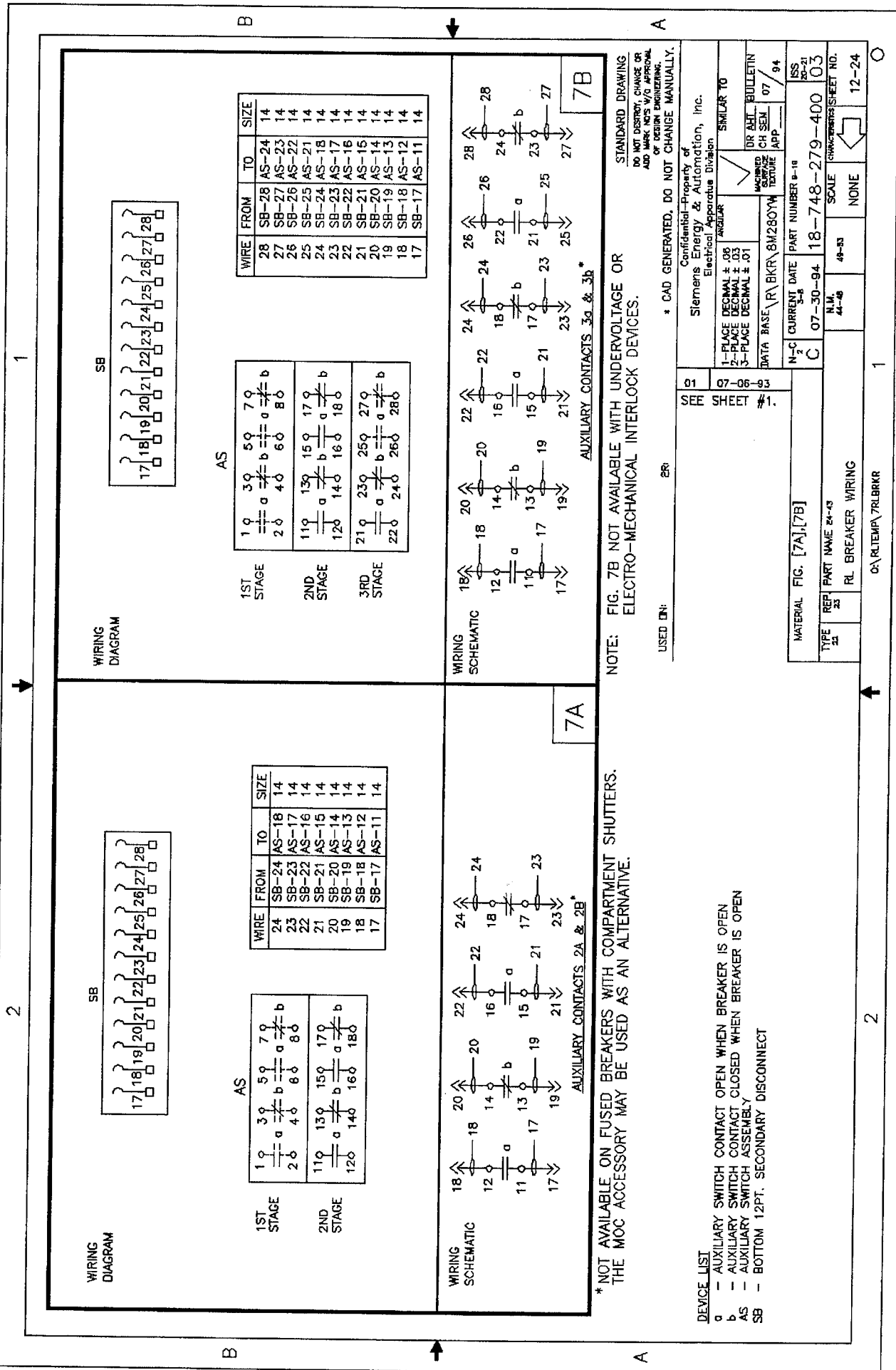
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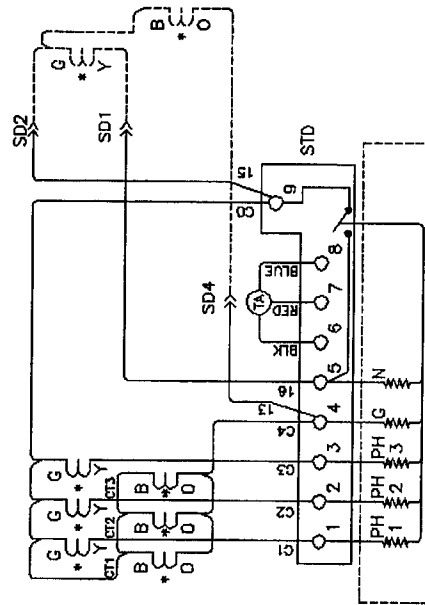
* NOT AVAILABLE ON FUSED BREAKERS WITH COMPARTMENT SHUTTERS.
THE MOC ACCESSORY MAY BE USED AS AN ALTERNATIVE.

NOTE: FIG. 7B NOT AVAILABLE WITH UNDERVOLTAGE OR
ELECTRO-MECHANICAL INTERLOCK DEVICES.

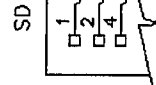
- DEVICE LIST
- a - AUXILIARY SWITCH CONTACT OPEN WHEN BREAKER IS OPEN
 - b - AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
 - AS - AUXILIARY SWITCH ASSEMBLY
 - SB - BOTTOM 12PT. SECONDARY DISCONNECT

STANDARD DRAWING
DO NOT DETRIMENT, CHANGE OR
ALTER THIS DRAWING WITHOUT
APPROVAL OF THE ENGINEER.
* CAD GENERATED, DO NOT CHANGE MANUALLY.

SHEET 01		SHEET 02		SHEET 03	
SERIAL 01		SERIAL 02		SERIAL 03	
CONFIDENTIAL-Property of Siemens Energy & Automation, Inc. Electrical Apparatus Division		CONFIDENTIAL-Property of Siemens Energy & Automation, Inc. Electrical Apparatus Division		CONFIDENTIAL-Property of Siemens Energy & Automation, Inc. Electrical Apparatus Division	
1-PLACE DECIMAL ± .00		2-PLACE DECIMAL ± .01		3-PLACE DECIMAL ± .01	
DATA BASE \R\BKR\8M280YM		TEXTURE APP 07		DR. ABL. BULLETIN 07	
N-C CURRENT DATE PART NUMBER 8-18		N-C CURRENT DATE PART NUMBER 8-18		N-C CURRENT DATE PART NUMBER 8-18	
C 07-30-94		C 07-30-94		C 07-30-94	
N.M. 44-46		N.M. 44-46		N.M. 44-46	
SCALE NONE		SCALE NONE		SCALE NONE	
SHEET NO. 12-24		SHEET NO. 12-24		SHEET NO. 12-24	
MATERIAL FIG. [7A],[7B]		MATERIAL FIG. [7A],[7B]		MATERIAL FIG. [7A],[7B]	
REF. PART NAME 24-43		REF. PART NAME 24-43		REF. PART NAME 24-43	
RL BREAKER WIRING		RL BREAKER WIRING		RL BREAKER WIRING	
TYPE 22		TYPE 22		TYPE 22	
O\NTEMP\70LBRKR		O\NTEMP\70LBRKR		O\NTEMP\70LBRKR	



WIRE NO.	FROM	TO	WIRE
1	CT1-Y	STD-1	1B
2	CT1-Y	CT2-1	2B
3	CT2-Y	CT3-2	3B
4	CT3-Y	CT2-B	4B
5	CT1-B	CT1-B	5B
6	CT1-B	CT2-B	6B
7	CT2-B	CT3-B	7B
8	CT3-B	CT1-B	8B
9	CT1-B	CT2-B	9B
10	CT2-B	CT3-B	10B
11	CT3-B	CT1-B	11B
12	CT1-B	CT2-B	12B
13	CT2-B	CT3-B	13B
14	CT3-B	CT1-B	14B
15	CT1-B	CT2-B	15B
16	CT2-B	CT3-B	16B
17	CT3-B	CT1-B	17B
18	CT1-B	CT2-B	18B
19	CT2-B	CT3-B	19B
20	CT3-B	CT1-B	20B
21	CT1-B	CT2-B	21B
22	CT2-B	CT3-B	22B
23	CT3-B	CT1-B	23B
24	CT1-B	CT2-B	24B
25	CT2-B	CT3-B	25B
26	CT3-B	CT1-B	26B
27	CT1-B	CT2-B	27B
28	CT2-B	CT3-B	28B
29	CT3-B	CT1-B	29B
30	CT1-B	CT2-B	30B
31	CT2-B	CT3-B	31B
32	CT3-B	CT1-B	32B
33	CT1-B	CT2-B	33B
34	CT2-B	CT3-B	34B
35	CT3-B	CT1-B	35B
36	CT1-B	CT2-B	36B
37	CT2-B	CT3-B	37B
38	CT3-B	CT1-B	38B
39	CT1-B	CT2-B	39B
40	CT2-B	CT3-B	40B
41	CT3-B	CT1-B	41B
42	CT1-B	CT2-B	42B
43	CT2-B	CT3-B	43B
44	CT3-B	CT1-B	44B
45	CT1-B	CT2-B	45B
46	CT2-B	CT3-B	46B
47	CT3-B	CT1-B	47B
48	CT1-B	CT2-B	48B
49	CT2-B	CT3-B	49B
50	CT3-B	CT1-B	50B
51	CT1-B	CT2-B	51B
52	CT2-B	CT3-B	52B
53	CT3-B	CT1-B	53B
54	CT1-B	CT2-B	54B
55	CT2-B	CT3-B	55B
56	CT3-B	CT1-B	56B
57	CT1-B	CT2-B	57B
58	CT2-B	CT3-B	58B
59	CT3-B	CT1-B	59B
60	CT1-B	CT2-B	60B
61	CT2-B	CT3-B	61B
62	CT3-B	CT1-B	62B
63	CT1-B	CT2-B	63B
64	CT2-B	CT3-B	64B
65	CT3-B	CT1-B	65B
66	CT1-B	CT2-B	66B
67	CT2-B	CT3-B	67B
68	CT3-B	CT1-B	68B
69	CT1-B	CT2-B	69B
70	CT2-B	CT3-B	70B
71	CT3-B	CT1-B	71B
72	CT1-B	CT2-B	72B
73	CT2-B	CT3-B	73B
74	CT3-B	CT1-B	74B
75	CT1-B	CT2-B	75B
76	CT2-B	CT3-B	76B
77	CT3-B	CT1-B	77B
78	CT1-B	CT2-B	78B
79	CT2-B	CT3-B	79B
80	CT3-B	CT1-B	80B
81	CT1-B	CT2-B	81B
82	CT2-B	CT3-B	82B
83	CT3-B	CT1-B	83B
84	CT1-B	CT2-B	84B
85	CT2-B	CT3-B	85B
86	CT3-B	CT1-B	86B
87	CT1-B	CT2-B	87B
88	CT2-B	CT3-B	88B
89	CT3-B	CT1-B	89B
90	CT1-B	CT2-B	90B
91	CT2-B	CT3-B	91B
92	CT3-B	CT1-B	92B
93	CT1-B	CT2-B	93B
94	CT2-B	CT3-B	94B
95	CT3-B	CT1-B	95B
96	CT1-B	CT2-B	96B
97	CT2-B	CT3-B	97B
98	CT3-B	CT1-B	98B
99	CT1-B	CT2-B	99B
100	CT2-B	CT3-B	100B
101	CT3-B	CT1-B	101B
102	CT1-B	CT2-B	102B
103	CT2-B	CT3-B	103B
104	CT3-B	CT1-B	104B
105	CT1-B	CT2-B	105B
106	CT2-B	CT3-B	106B
107	CT3-B	CT1-B	107B
108	CT1-B	CT2-B	108B
109	CT2-B	CT3-B	109B
110			



20A

+ DEVICE LEADS

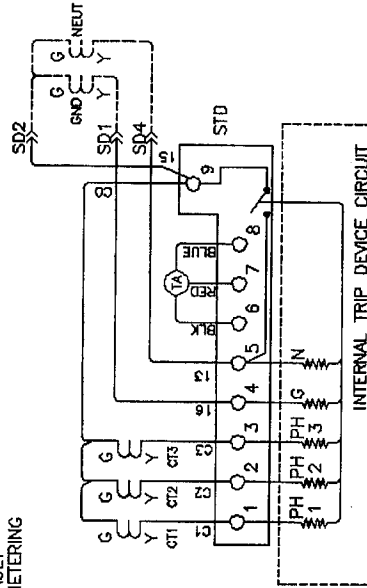
DEVICE LIST

- | | | |
|-----|---|----------------------|
| CT | - | CURRENT SENSOR |
| GND | - | GROUND CONNECTION |
| PH | - | PHASE VOLTAGE |
| SD | - | SECONDARY DISCONNECT |
| STD | - | STATIC TRIP DEVICE |
| TA | - | TRIP ACTUATOR |

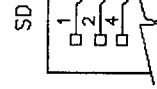
NOTES:

- NOTES:
1. WITH FIG. 20A OR 20B, FIG. 3A AND 3B ARE NOT AVAILABLE.

STATIC TRIP III "4WDN"
WITH GROUND FAULT
WITH NEUTRAL METERING
1 WINDING
SPECIAL



WIRE NO.	FROM	TO	WIRE
C1	CT1-Y	STD-1	18
C2	CT2-Y	STD-2	18
C3	CT3-Y	STD-3	18
C4	CT1-G	GT2-G	18
CO	CT2-G	GT2-G	18
CO	CT3-G	STD-9	18
13	STD-5	SD-4	18
15	STD-9	SD-2	18
16	STD-4	SD-1	18
TA1	RED	STD-7	+
TA2	BLACK	STD-6	+
TA3	BLUE	STD-8	+



20B

STANDARD DRAWING
DO NOT DESTROY, CHANGE OR
ADD MARK H/O'S W/O APPROVAL
OF DESIGN ENGINEERING.
NOT CHANGE MANUALLY.

USED ON

22.

22.

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1- PLACE DECIMAL $\pm .06$ 2- PLACE DECIMAL $\pm .03$ 3- PLACE DECIMAL $\pm .01$		ANGULAR ☒	MACHINED SURFACE TEXTURE	DR AHT CH SEM APP	BULLETIN 07 / 94	SIMILAR TO
DATA BASE: R\BKR\RM2BOYM						

N-C 2 C	CURRENT DATE	PART NUMBER	ISS
	07-30-94	18-748-279-400	20711
DR	N.M. 44-46	SCALE	SHEET NO.
	49-53	NONE	14-24

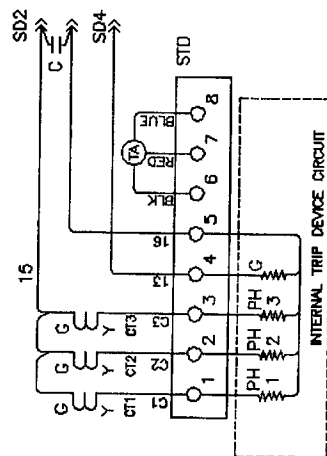
O:\RLTEMP\20A20B

2

1

2

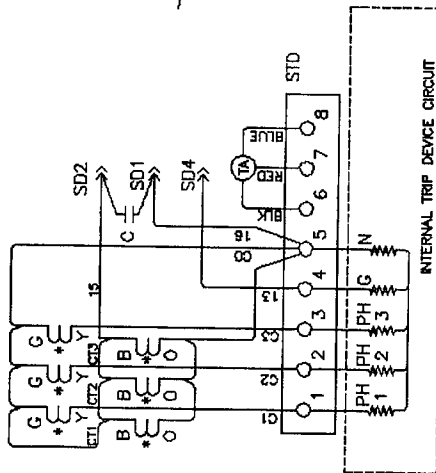
STATIC TRIP III "4WM"
WITH GROUND FAULT
NO NEUTRAL METERING
1 WINDING
SPECIAL



WIRE NO.	FROM	TO	WIRE
C1	CT1-Y	STD-1	18
C2	CT2-Y	STD-2	18
C3	CT3-Y	STD-3	18
C4	CT1-G	CT2-G	18
C5	CT2-G	CT3-G	18
C6	CT3-G	STD-4	18
C7	STD-4	SD-1	18
C8	STD-5	SD-2	18
C9	RED	STD-7	+
C10	BLACK	STD-6	+
C11	BLUE	STD-8	+

20C

STATIC TRIP III "4WM-NEC"
WITH GROUND FAULT
WITH NEUTRAL METERING
* 2 WINDING DUAL
SPECIAL



WIRE NO.	FROM	TO	WIRE
C1	CT1-Y	STD-1	18
C2	CT2-Y	STD-2	18
C3	CT3-Y	STD-3	18
C4	CT1-G	CT2-G	18
C5	CT2-G	CT3-G	18
C6	CT3-G	STD-4	18
C7	STD-4	SD-1	18
C8	STD-5	SD-2	18
C9	RED	STD-7	+
C10	BLACK	STD-6	+
C11	BLUE	STD-8	+

20D

+ DEVICE LEADS

DEVICE LIST

CT - CURRENT SENSOR
GND - GROUND CONNECTION
PH - PHASE VOLTAGE
SD - SECONDARY DISCONNECT
STD - STATIC TRIP DEVICE
TA - TRIP ACTUATOR

- NOTES:
- WITH FIG. 20C OR 20D, FIG. 3A AND 3B ARE NOT AVAILABLE.
 - CONTACT "C" IS CLOSED WHEN BREAKER IS OUT OF COMPARTMENT.

USED DNI

20C

A

STANDARD DRAWING
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OF DESIGN ENGINEERING.

* CAD GENERATED, DO NOT CHANGE MANUALLY.

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Electrical Apparatus Division

SIMILAR TO

DR AHT BULLETIN

CH SEM

APP 07/94

N/C

CURRENT DATE

PART NUMBER 9-19

ISS

18-21

18-748-279-400

03

SCALE

NONE

SHEET NO.

15-24

MATERIAL FIG. [20C], [20D]

REP 23

PART NAME 64-43

SPECIAL CONNECTION DIAGRAMS FOR

STATIC TRIP III DEVICE

N/C

CURRENT DATE

PART NUMBER 9-19

ISS

18-21

18-748-279-400

03

SCALE

NONE

SHEET NO.

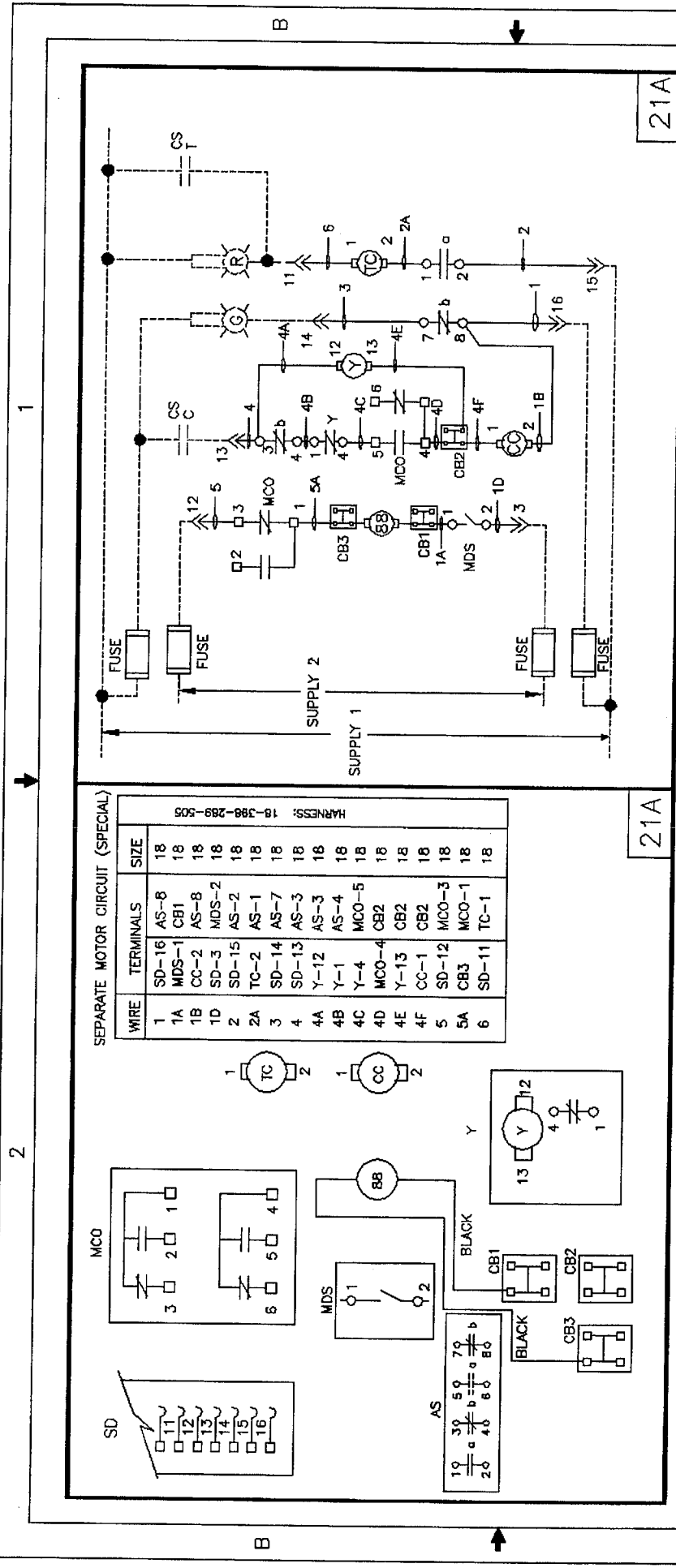
15-24

2

O:\RLEMP\20C20D

1

O



DEVELOPMENT

DO NOT DESTROY, CHANGE OR
ADD MARKS NOT W/O APPROVAL
OF DESIGN ENGINEER

STANDARD DRAWING

• CAD GENERATED, DO NOT CHANGE MANUALLY.

USED DN 2R

21A

NOTES:

1. FIGURES 3A, 3B, AND 6D NOT AVAILABLE WITH THIS FEATURE.

CLASS "C" WIRING

#14 WIRE SIS. CO-557-286-341

#18 WIRE SIS. CO-557-286-003

□ - SINGLE FASTON TAB
ONE CONNECTION ONLY

○ - MULTIPLE CONNECTIONS POSSIBLE

DEVICE LIST

- CC - SHUNT TRIP COIL (SPRING RELEASE)
- TC - SHUNT TRIP COIL (SPRING RELEASE)
- MCO - SHUNT TRIP COIL (SPRING RELEASE)
- MDS - SHUNT TRIP COIL (SPRING RELEASE)
- Y - SHUNT TRIP COIL (SPRING RELEASE)
- AS - SHUNT TRIP COIL (SPRING RELEASE)
- CB1 - SHUNT TRIP COIL (SPRING RELEASE)
- CB2 - SHUNT TRIP COIL (SPRING RELEASE)
- CB3 - SHUNT TRIP COIL (SPRING RELEASE)
- SD - SHUNT TRIP COIL (SPRING RELEASE)

FIG. [21A]

MATERIAL

REP NAME 21-43

TYPE 22

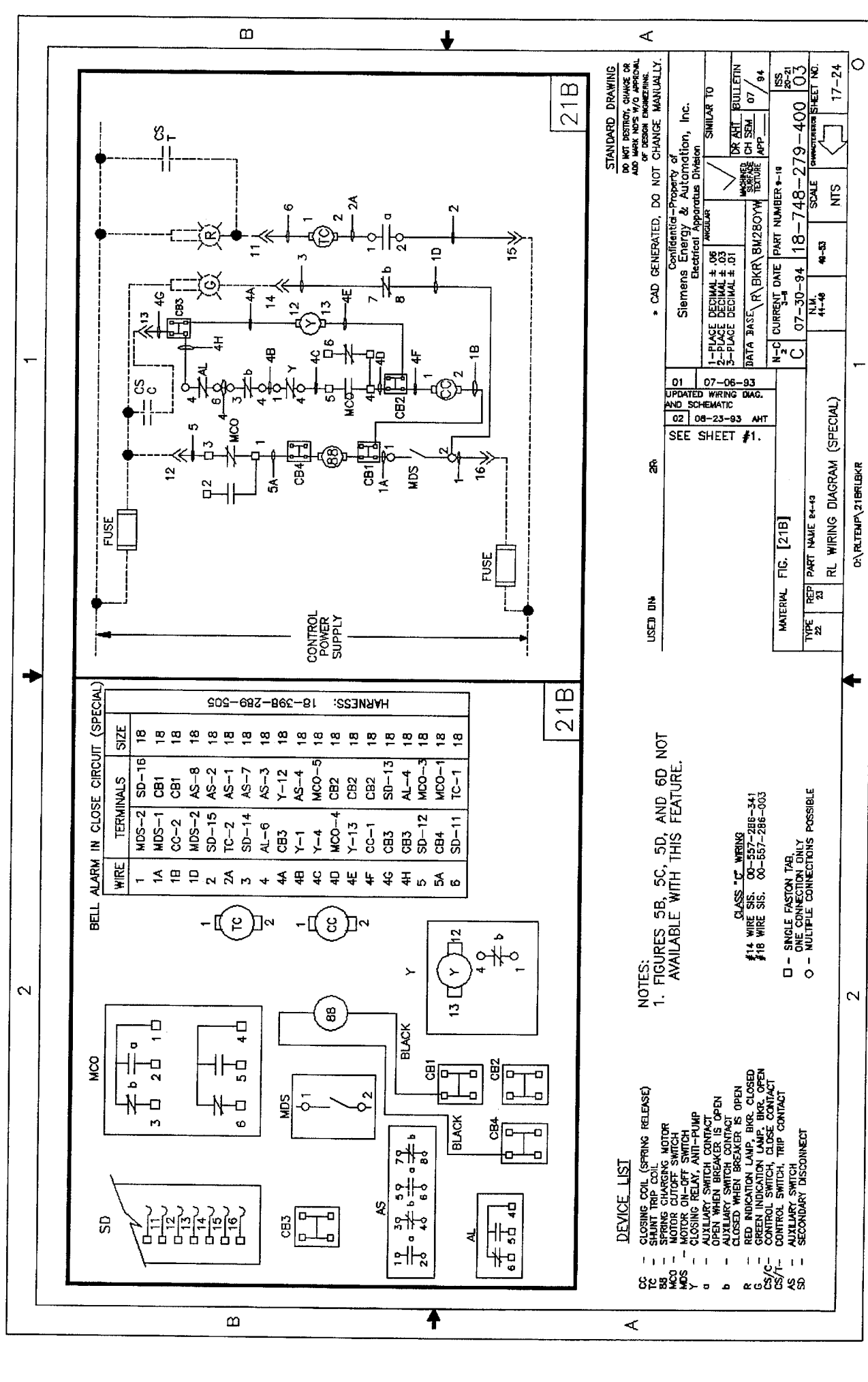
REP 23

RL WIRING DIAGRAM (SPECIAL)

SCALE 48-35

NTS

16-24



BELL ALARM IN CLOSE CIRCUIT (SPECIAL)

WIRE	TERMINALS	SIZE
1	MDS-2	SD-16
1A	MDS-1	CB1
1B	CC-2	CB1
1D	MDS-2	AS-8
2	SD-15	AS-2
2A	TC-2	AS-1
3	SD-14	AS-7
4	AL-6	AS-3
4A	CB3	Y-12
4B	Y-1	AS-4
4C	Y-4	MCO-5
4D	MCO-4	CB2
4E	Y-13	CB2
4F	CC-1	CB2
4G	CB3	SD-13
4H	CB3	AL-4
5	SD-12	MCO-3
5A	CB4	MCO-1
6	SD-11	TC-1

HARNESSES: 18-39B-289-505

- DEVICE LIST**
- CC - CLOSING COIL (SPRING RELEASE)
 - TC - SHUNT TRIP COIL
 - RS - SPRING CHARGING MOTOR
 - MDS - MOTOR CUTOFF SWITCH
 - Y - CLOSING RELAY, ANTI-PUMP
 - a - CLOSING RELAY, ANTI-PUMP
 - b - CLOSING RELAY, ANTI-PUMP
 - AS - AUXILIARY SWITCH, BREAKER IS OPEN
 - AL - AUXILIARY SWITCH, BREAKER IS OPEN
 - R - RED INDICATION LAMP, BGR. CLOSED
 - G - GREEN INDICATION LAMP, BGR. OPEN
 - CS/C - CONTROL SWITCH, CLOSE CONTACT
 - CS/T - CONTROL SWITCH, TRIP CONTACT
 - AS - AUXILIARY SWITCH
 - SD - SECONDARY DISCONNECT

NOTES:
1. FIGURES 5B, 5C, 5D, AND 5D NOT AVAILABLE WITH THIS FEATURE.

CLASS "C" WIRING
#14 WIRE SIS. CO-557-288-341
#18 WIRE SIS. CO-557-288-003
□ - SINGLE PASTON TAB.
○ - ONE CONNECTION ONLY
○ - MULTIPLE CONNECTIONS POSSIBLE

STANDARD DRAWING
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ADD MARKS W/O APPROVAL
OF DESIGN ENGINEERING.

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01 07-06-93
02 08-23-93
SEE SHEET #1.

UPDATED WIRING DIAG.
AND SCHEMATIC
ANT

SIMILAR TO
1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01

DATA BASE R/BK/BM280YV
MOUSE CH SEM APP 07/94

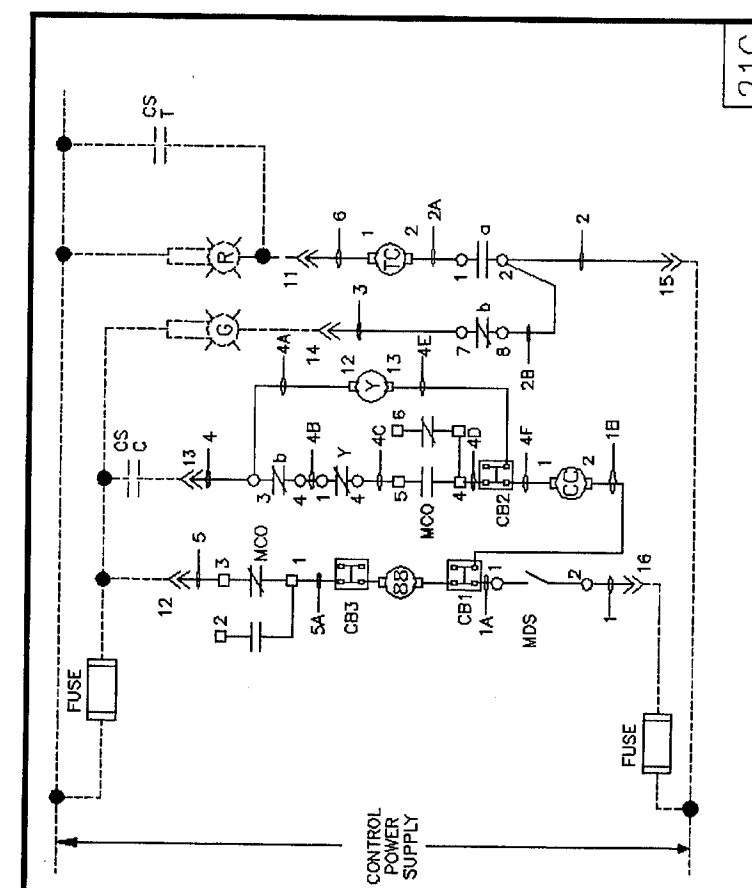
N-C CURRENT DATE PART NUMBER 1-18
C 07-30-94 18-748-279-400 03

ISS 20-21
SCALE 40-53
NTS 17-24

MATERIAL FIG. [21B]
TYPE 22
REP 23

PART NAME 84-43
RL WIRING DIAGRAM (SPECIAL)

03/RT/EMP/21B/BLK/R



USED IN:	2D:	STANDARD DRAWING
		DO NOT DESTROY, CHANGE OR ALTER INFORMATION CONTAINED HEREIN. THIS IS THE PROPERTY OF DESIGN ENGINEERING
		* CAD GENERATED, DO NOT CHANGE MANUALLY

CONFIDENTIAL - Property of Siemens Energy & Automation, Inc. Electrical Apparatus Division		SIMILAR TO		DR AHT		BULLETIN	
ANGULAR		☒		MACHINED SURFACE		TAP	
1-PLACE DECIMAL ± .06		2-PLACE DECIMAL ± .03		3-PLACE DECIMAL ± .01		DATA BASE, R/BKR 8M280YWM	
01		07-06-93		N-C		CURRENT DATE	
02		06-23-93		C		07-30-94	
SEE SHEET #1.		UPDATED WIRING DIAG. AND SCHEDULE		N.M.		SCALE	
				44-46		49-53	
				PART NAME 24-43		SHEET NO.	
				RL WIRING DIAGRAM (SPECIAL)		18-24	

NOTES:
1. FIG. 6D NOT AVAILABLE WITH THIS FEATURE

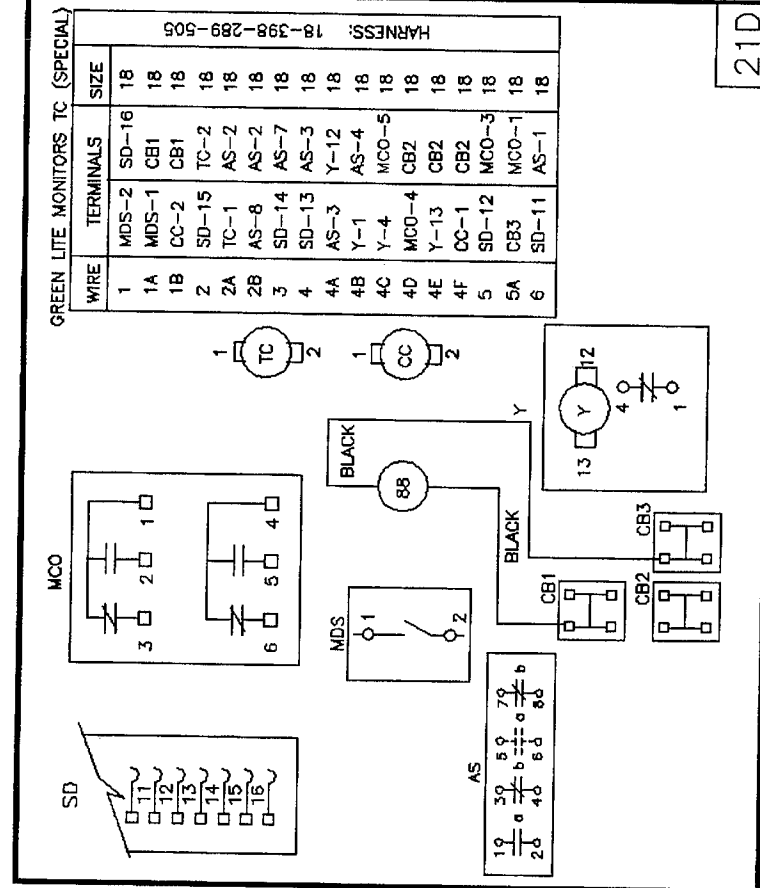
DEVICE LIST

- | | |
|-----|----------------------------------|
| C | CLOSING COIL (SPRING RELEASE) |
| C | SHUNT TRIP COIL |
| C | SPRING CHARGING MOTOR |
| B | MOTOR CUTOFF SWITCH |
| W | MOTOR CUTOFF SWITCH |
| W | CLOSING RELAY, ANTI-PUMP |
| W | AUXILIARY SWITCH CONTACT OPEN |
| W | AUXILIARY SWITCH CONTACT OPEN |
| W | AUXILIARY SWITCH CONTACT OPEN |
| W | CLOSED WHEN BREAKER IS OPEN |
| W | RED INDICATION LAMP, BKR. CLOSED |
| W | GREEN INDICATION LAMP, BKR. OPEN |
| S/C | CONTROL SWITCH, CLOSE CONTACT |
| S/C | CONTROL SWITCH, TRIP CONTACT |
| S | AUXILIARY SWITCH |
| S | SECONDARY DISCONNECT |

CLASS "C" WIRING
#14 WRE SIS. 00-557-288-341
#18 WRE SIS. 00-557-288-003

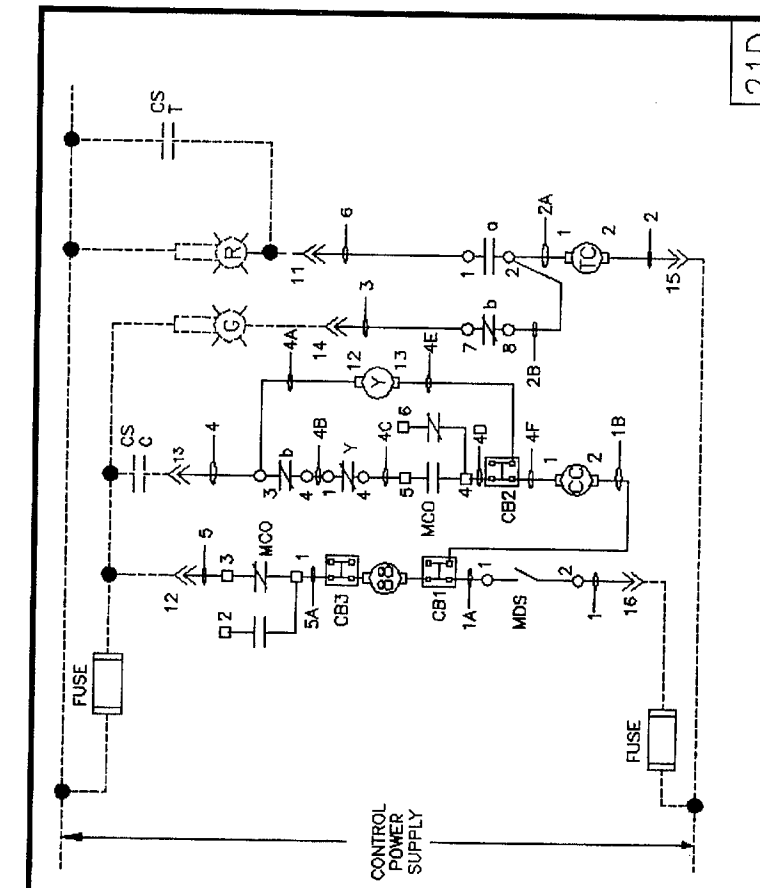
☐ - SINGLE FASTON TAB,
ONE CONNECTION ONLY
☐ - MULTIPLE CONNECTIONS POSSIBLE

2



21D

1



21D

DEVICE LIST

- CC - CLOSING COIL (SPRING RELEASE)
- TC - SPRING CHARGING MOTOR
- BB - MOTOR CUT-OFF SWITCH
- MDS - MOTOR ON-OFF SWITCH
- Y - CLOSING RELAY, ANTI-PUMP
- a - AUXILIARY SWITCH CONTACT
- b - OPEN WHEN BREAKER IS OPEN
- R - RED INDICATION LAMP, BKR CLOSED
- CS/C - GREEN INDICATION LAMP, BKR OPEN
- CS/7 - CONTROL SWITCH, CLOSE CONTACT
- AS - AUXILIARY SWITCH
- SD - SECONDARY DISCONNECT

NOTES:
1. FIGURE 6D NOT AVAILABLE WITH THIS FEATURE.

CLASS "C" WIRING
#14 WIRE SIS. 00-557-286-341
#18 WIRE SIS. 00-557-286-003
□ - SINGLE FASTON TAB, ONE CONNECTION ONLY
○ - MULTIPLE CONNECTIONS POSSIBLE

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USED ON

2R

UPDATED WIRING DIAG.
AND SCHEMATIC

01 07-06-83
02 08-23-83 AHT
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SIMILAR TO	
1-PLACE DECIMAL ± 06	DR AHT BULLETIN
2-PLACE DECIMAL ± 03	CH SEM 07/94
3-PLACE DECIMAL ± 01	APPROVED SURFACE TEXTURE APP
DATA BASE \R\BKR\BM280YH	
N-C CURRENT DATE	PART NUMBER 8-19
C 07-30-94	18-745-279-400
N/A	ISS 30-21
44-46	03
44-53	SCALE
NTS	19-24
SHEET NO.	

MATERIAL FIG. [21D]

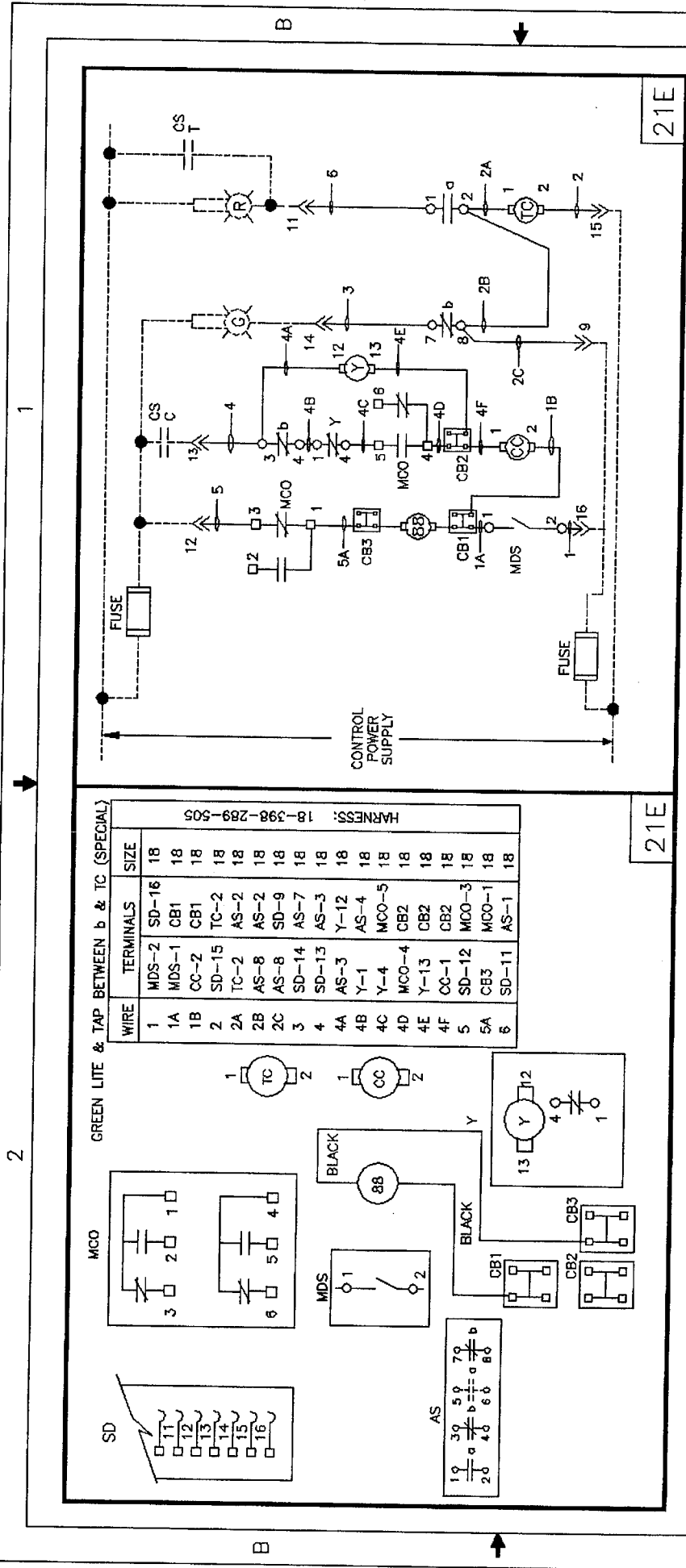
TYPE 22 REF 23 PART NAME 24-13

RL WIRING DIAGRAM (SPECIAL)

0:\R\TEMP\21DRBKR

2

1



DEVELOPMENT LIST

- CC - CLOSING COIL (SPRING RELEASE)
- TC - SHUNT TRIP COIL
- BB - SPRING CHARGING MOTOR
- MCO - MOTOR CUTOFF SWITCH
- MDS - MOTOR ON-OFF SWITCH
- Y - CLOSING RELAY, ANTI-PUMP
- a - AUXILIARY SWITCH CONTACT
- b - OPEN WHEN BREAKER IS OPEN
- R - RED INDICATION LAMP, BKR. CLOSED
- CS/C - GREEN INDICATION LAMP, BKR. OPEN
- CS/T - CONTROL SWITCH, CLOSE CONTACT
- AS - AUXILIARY SWITCH
- SD - SECONDARY DISCONNECT

NOTES:

- FIGURES 4A, 4B, 4C AND 6D NOT AVAILABLE WITH THIS FEATURE.

CLASS "C" WIRING

- #14 WIRE SIS. 00-557-286-341
- #18 WIRE SIS. 00-557-286-003

□ - SINGLE FASTON TAB, ONE CONNECTION ONLY
○ - MULTIPLE CONNECTIONS POSSIBLE

STANDARD DRAWING
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USED IN: 2R

REVISIONS:

NO.	DESCRIPTION	DATE
01	07-06-93	
02	08-23-93	

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1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .01
3-PLACE DECIMAL ± .001

DATA BASE: R1BKR\BM280Y

DR AHT BULLETIN
CH SEN
APP 07/94

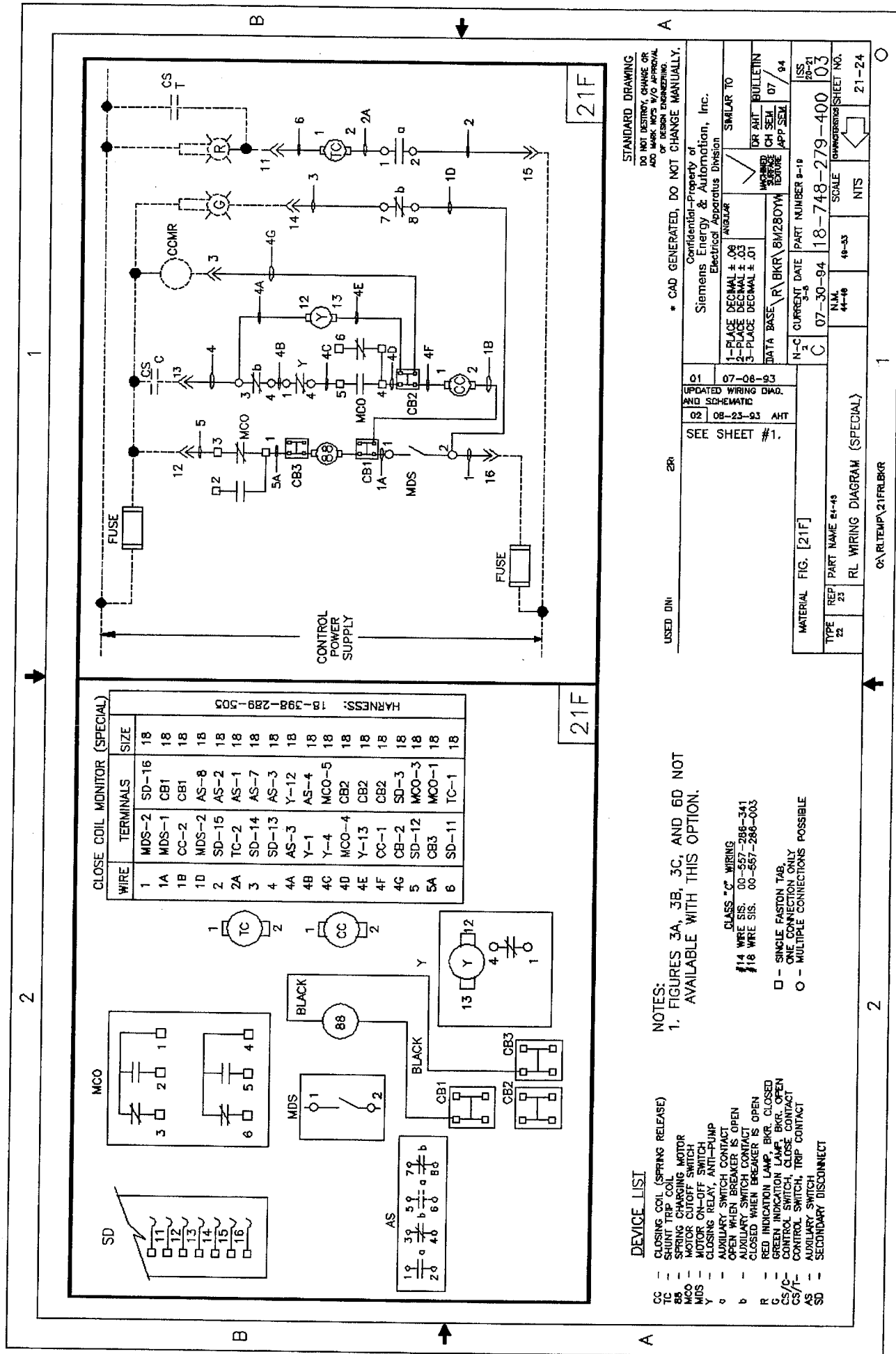
MATERIAL FIG. [21E]

TYPE	REP	PART NAME	QTY	SCALE	NTS
22	23	RL WIRING DIAGRAM (SPECIAL)	1	48-33	20-24

FIG. 18-748-279-400

ISS 20-21

CHARACTERISTICS SHEET NO.



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Electrical Apparatus Division

1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01

ANALOG

✓

DR AHT BULLETIN
CH SEM 07/94
APP SEM 07/94

DATA BASE: R1 BKR BM280YM

N-C CURRENT DATE PART NUMBER 9-19

C 07-30-94 18-748-279-400 103

NLM 44-46 SCALE 48-33 NTS

MATERIAL FIG. [21F]

REP PART NAME 61-43

TYPE 22

RL WIRING DIAGRAM (SPECIAL)

01 07-06-93
02 08-23-93 AHT

UPDATED WIRING DIA.
AND SCHEMATIC

SEE SHEET #1.

21F

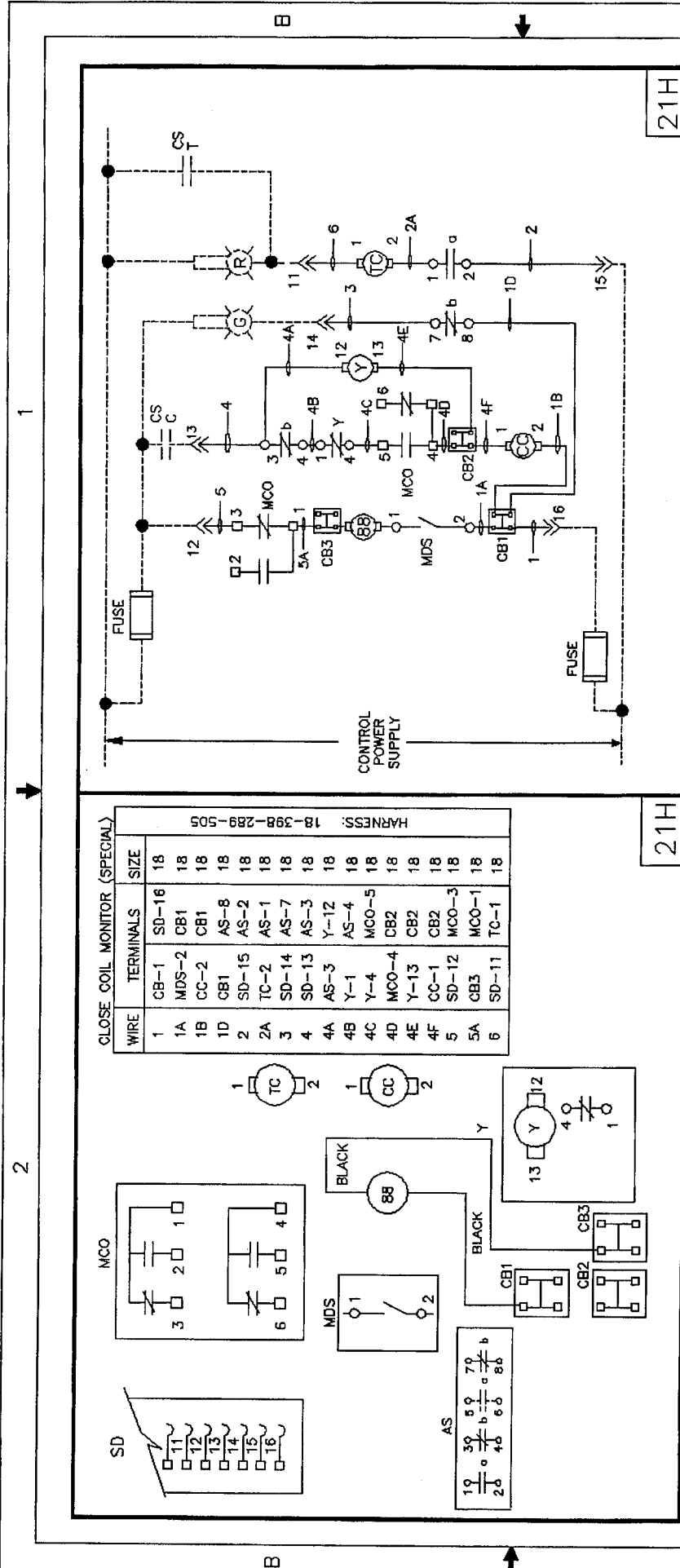
NOTES:
1. FIGURES 3A, 3B, 3C, AND 6D NOT
AVAILABLE WITH THIS OPTION.

CLASS "C" WIRING
#14 WIRE (SIS. 00-287-288-341)
#18 WIRE (SIS. 00-287-288-503)

□ - SINGLE FASTON TAB,
ONE CONNECTION ONLY
○ - MULTIPLE CONNECTIONS POSSIBLE

DEVICE LIST

- CC - CLOSING COIL (SPRING RELEASE)
- TC - SHUNT TRIP COIL
- 88 - SPRING CHARGING MOTOR
- MCO - MOTOR CUTOFF SWITCH
- MDS - MOTOR ON-OFF SWITCH
- Y - CLOSING RELAY, ANTI-PUMP
- o - AUXILIARY SWITCH CONTACT
- b - OPEN WHEN BREAKER IS OPEN
- R - AUXILIARY SWITCH CONTACT
- CS - GREEN INDICATION LAMP, BKR. CLOSED
- CS/O - CONTROL SWITCH, CLOSE CONTACT
- CS/T - CONTROL SWITCH, TRIP CONTACT
- SD - AUXILIARY SWITCH
- SD - SECONDARY DISCONNECT



STANDARD DRAWING
DO NOT DESTROY, CHANGE OR
AND MARK NOT W/O APPROVAL
OF DESIGN ENGINEERING.

USED ON: 2R

NOTES:
1. FIGURE 6D NOT AVAILABLE WITH
THIS FEATURE.

DEVICE LIST

- CC - CLOSING COIL (SPRING RELEASE)
- TC - SHUNT TRIP COIL
- 88 - SPRING CHARGING MOTOR
- MCO - MOTOR CUTOFF SWITCH
- MDS - MOTOR ON-OFF SWITCH
- Y - CLOSING RELAY, ANTI-PUMP
- a - AUXILIARY SWITCH CONTACT
- b - OPEN WHEN BREAKER IS OPEN
- R - AUXILIARY SWITCH CONTACT
- G - CLOSED WHEN BREAKER IS OPEN
- CS/O - GREEN INDICATION LAMP, BKR. CLOSED
- CS/T - CONTROL SWITCH, CLOSE CONTACT
- AS - AUXILIARY SWITCH
- SD - SECONDARY DISCONNECT

CLASS "C" WIRING
#14 WIRE SIS. CO-557-286-341
#18 WIRE SIS. CO-557-286-003

□ - SINGLE FASTON TAB
○ - MULTIPLE CONNECTIONS POSSIBLE

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Electrical Apparatus Division

UPDATED WIRING DIAG. AND SCHEMATIC
D1 07-06-93
D2 08-23-93 AHT

SEE SHEET #1.

DATA BASE R\BKR\BM280YW

1-PLACE DECIMAL # 06
2-PLACE DECIMAL # 03
3-PLACE DECIMAL # 01

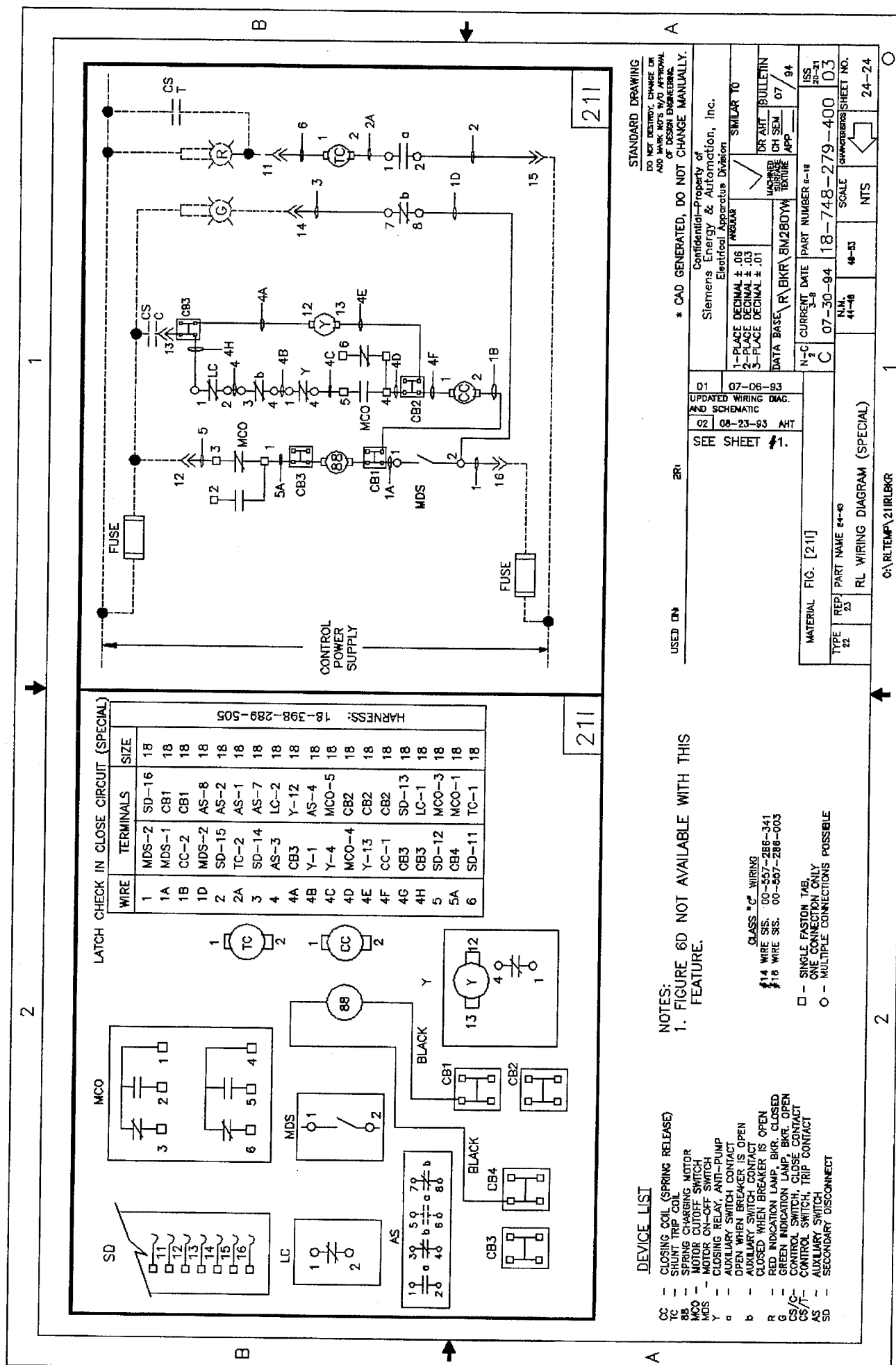
DR AHT **BULLETIN** **CH SEM** **APP** **07/94**

N-C **CURRENT DATE** **PART NUMBER #18** **ISS**
C **07-30-94** **18-748-279-400** **03**

MATERIAL FIG. [21H]

TYPE **REP** **PART NAME #4-43** **SCALE** **NTS** **23-24**
22 **23** **RL WIRING DIAGRAM (SPECIAL)** **44-46** **46-53**

Q:\RLTEMP\21HRLBKR



LATCH CHECK IN CLOSE CIRCUIT (SPECIAL)

WIRE	TERMINALS	SIZE
1	MDS-2	SD-16
1A	MDS-1	CB1
1B	CC-2	CB1
1D	MDS-2	AS-8
2	SD-15	AS-2
2A	TC-2	AS-1
3	SD-14	AS-7
4	AS-3	LC-2
4A	CB3	Y-12
4B	Y-1	AS-4
4C	Y-4	MCO-5
4D	MCO-4	CB2
4E	Y-13	CB2
4F	CC-1	CB2
4G	CB3	SD-13
4H	CB3	LC-1
5	SD-12	MCO-3
5A	CB4	MCO-1
6	SD-11	TC-1

HARNESS: 18-398-289-505

DEVICE LIST

- CC - CLOSING COIL (SPRING RELEASE)
- TC - SHUNT TRIP COIL
- BB - SPRING CHARGING MOTOR
- MCO - MOTOR CUTOFF SWITCH
- MDS - MOTOR ON-OFF SWITCH
- a - CLOSING RELAY, ANTI-PUMP
- b - AUXILIARY SWITCH CONTACT
- OPEN WHEN BREAKER IS OPEN
- AUXILIARY SWITCH CONTACT
- CLOSED WHEN BREAKER IS OPEN
- RED INDICATION LAMP, BKR. CLOSED
- GREEN INDICATION LAMP, BKR. OPEN
- CS/C - CONTROL SWITCH, CLOSE CONTACT
- CS/O - CONTROL SWITCH, TRIP CONTACT
- AS - AUXILIARY SWITCH
- SD - SECONDARY DISCONNECT

NOTES:
1. FIGURE 6D NOT AVAILABLE WITH THIS FEATURE.

CLASS "C" WIRING
#14 WIRE S.S. 00-557-286-341
#18 WIRE S.S. 00-557-286-003
□ - SINGLE FASTON TAB
○ - ONE CONNECTION ONLY
○ - MULTIPLE CONNECTIONS POSSIBLE

STANDARD DRAWING
DO NOT DESTROY, CHANGE OR
ADD WITHOUT THE APPROVAL
OF THE ENGINEERING
DEPARTMENT
* CAD GENERATED, DO NOT CHANGE MANUALLY.

USED IN		2R1		CONFIDENTIAL-Property of Siemens Energy & Automation, Inc. Electrical Apparatus Division	
D1 UPDATED WIRING AND SCHEMATIC		07-06-93		SIMILAR TO	
D2 SEE SHEET #1.		08-23-93		DR AHT BULLETIN CH SEM 07/94 SURFACE APP	
MATERIAL FIG. [211]		N/C CURRENT DATE		PART NUMBER 18	
TYPE 12		REP 23		SCALE 48-53	
PART NAME 24-43		N/A		44-46	
RL WIRING DIAGRAM (SPECIAL)		18-748-279-400		ISS 20-21	
		03		SHEET NO. 24-24	

03\RLTEMP\211RLBKR