Siemens

TYPE RL OEM CATALOG REVISION LIST

LINE	SHEET TITLE OR DRAWING PART NAME	DRAWING PART NUMBER	SHEET NO.	LATEST REVISION RELEASED
1	DIAGRAM INSTRUCTIONS		IX–1	01/01/94
2	STD. STATIC TRIP III	18–748–279–400	1–24	07/06/93
3	STD. STATIC TRIP III	18–748–279–400	2–24	07/06/93
4	STD. STATIC TRIP III	18–748–279–400	3–24	07/06/93
5	STD. STATIC TRIP III	18–748–279–400	4–24	07/06/93
6	STD. STATIC TRIP III	18–748–279–400	5–24	07/06/93
7	RL BREAKER WIRING	18–748–279–400	6–24	08/23/93
8	RL BREAKER WIRING	18–748–279–400	7–24	08/23/93
9	RL BREAKER WIRING	18–748–279–400	8–24	07/06/93
10	RL BREAKER WIRING	18–748–279–400	9–24	07/06/93
11	RL BREAKER WIRING	18–748–279–400	10–24	07/06/93
12	RL BREAKER WIRING	18–748–279–400	11–24	07/06/93
13	RL BREAKER WIRING	18–748–279–400	12–24	08/23/93
14	SPEC. STATIC TRIP III	18–748–279–400	13–24	08/23/93
15	SPEC. STATIC TRIP III	18–748–279–400	14–24	07/06/93
16	SPEC. RL BREAKER WIRING	18–748–279–400	15–24	07/06/93
17	SPEC. RL BREAKER WIRING	18–748–279–400	16–24	08/23/93
18	SPEC. RL BREAKER WIRING	18–748–279–400	17–24	08/23/93
19	SPEC. RL BREAKER WIRING	18–748–279–400	18–24	08/23/93
20	SPEC. RL BREAKER WIRING	18–748–279–400	19–24	08/23/93
21	SPEC. RL BREAKER WIRING	18–748–279–400	20–24	08/23/93
22	SPEC. RL BREAKER WIRING	18–748–279–400	21–24	08/23/93
23	SPEC. RL BREAKER WIRING	18–748–279–400	22–24	08/23/93
24	SPEC. RL BREAKER WIRING	18–748–279–400	23–24	08/23/93
25	SPEC. RL BREAKER WIRING	18–748–279–400	24–24	08/23/93
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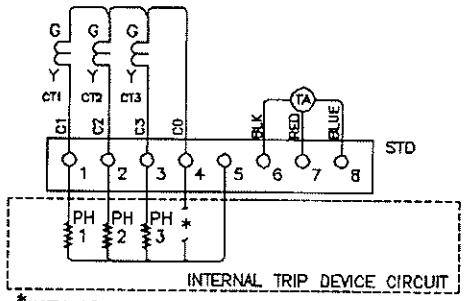
WIRING DIAGRAM INSTRUCTIONS

To determine the wiring features of the RL circuit breaker you must:

1. Read the description of each figure cell.
2. Select the figures that match the breaker's requirements. Only one alpha-numeric figure can be chosen in any given series (i.e. 1A or 1B). Figures with the same numeric values are exclusive.
3. Read and consider any notes shown in the drawing.

When using the catalog nomenclature to specify the breaker you will find a figure number shown in brackets [ ], under the breaker features pertaining to each selection. This is an alternative to the above steps in determining the wiring features.

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

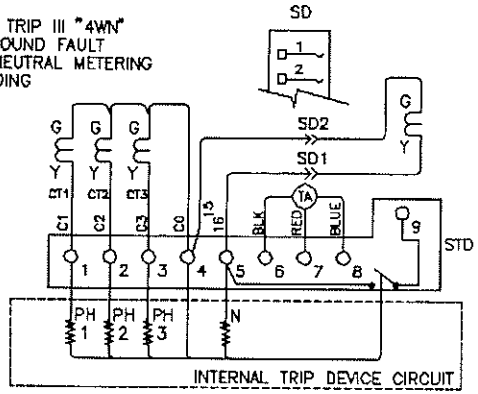


*WITH OR WITHOUT GRD. ELEMENT

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	CT2-G	18
C0	CT2-G	CT3-G	18
C0	CT3-G	STD-4	18
TA1	RED	STD-7	+
TA2	BLACK	STD-6	+
TA3	BLUE	STD-8	+

1A

STATIC TRIP III "4WN"
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	CT2-G	18
C0	CT2-G	CT3-G	18
C0	CT3-G	STD-4	18
15	STD-4	SD-2	18
16	STD-5	SD-1	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 MARK NO'S W/O APPROVAL OF DESIGN ENGINEERING

USED ON 2R1

* CAD GENERATED, DO NOT CHANGE MANUALLY.

REVISION	DESCRIPTION	ECO	BY	DATE
03	REVISED WIRING DIAGRAM	LV 9310-23	AHT	07-30-94
02	UPDATED WIRING DIAG.			08-25-93
01				07-06-93

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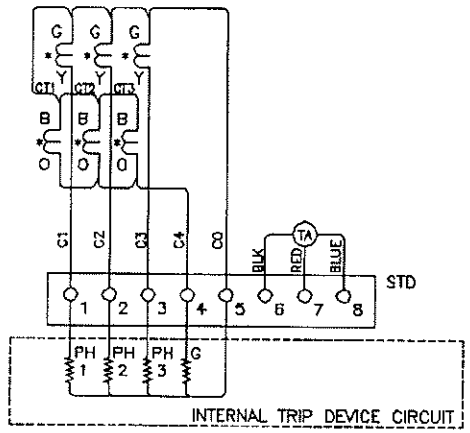
1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [1A], [1B]
N-C 2: C
CURRENT DATE 3-8: 07-30-94
PART NUMBER 9-18: 18-748-279-400
ISS 20-21: 03

TYPE 22
REP 23
PART NAME 24-43: STANDARD CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE
N.M. 44-48
49-53
SCALE: NONE
CHARACTERISTICS
SHEET NO.: 1-24

O:\RLTEMP\1ABC

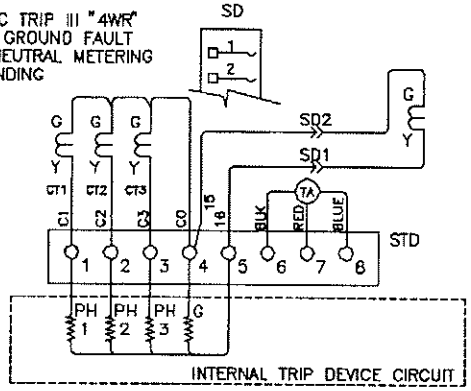
STATIC TRIP III "3WR–NEC"
WITH GROUND FAULT
NO NEUTRAL METERING
*2 WINDING (DUAL)



WIRE NO.	FROM	TO	WIRE
C1	CT1–Y	STD–1	18
C2	CT2–Y	STD–2	18
C3	CT3–Y	STD–3	18
CO	CT3–B	CT2–B	18
CO	CT2–B	CT1–B	18
CO	CT1–B	CT1–G	18
CO	CT1–G	CT2–G	18
CO	CT2–G	CT3–G	18
CO	CT3–G	STD–5	18
C4	CT1–O	CT2–O	18
C4	CT2–O	CT3–O	18
C4	CT3–O	STD–4	18
TA1	RED	STD–7	+
TA2	BLACK	STD–6	+
TA3	BLUE	STD–8	+

1C

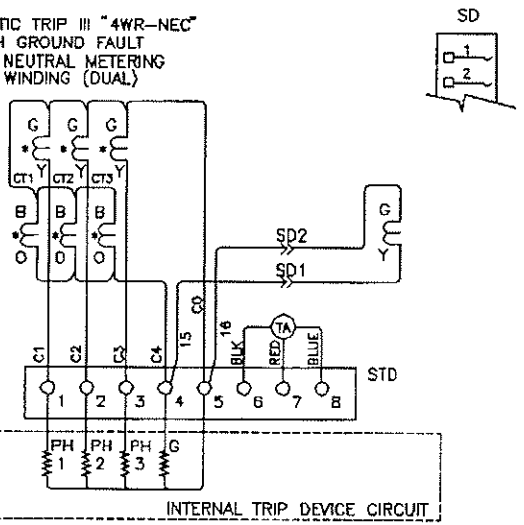
STATIC TRIP III "4WR"
WITH GROUND FAULT
NO NEUTRAL METERING
1 WINDING



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

1D

STATIC TRIP III "4WR–NEC"
WITH GROUND FAULT
NO NEUTRAL METERING
*2 WINDING (DUAL)



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

1E

\+ 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 MARK NO'S W/O APPROVAL OF DESIGN ENGINEERING.

USED ON 2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1. 01 07-06-93

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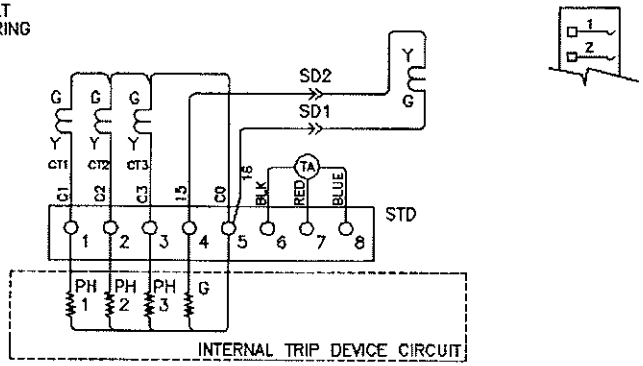
1–PLACE DECIMAL ± .06
2–PLACE DECIMAL ± .03
3–PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R|BKR\8M280YW

MATERIAL FIG. [1C], [1D], [1E]
N–C 2 C
CURRENT DATE 3–8 07–30–94
PART NUMBER 9–19 18–748–279–400
ISS 20–21 03

TYPE 22 | REP. 23 | PART NAME 24–43
STANDARD CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE
N.M. 44–48 | 49–53
SCALE NONE
CHARACTERISTICS
SHEET NO. 2–24

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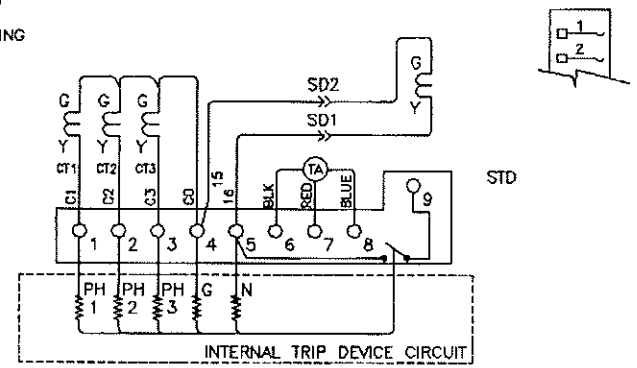
STATIC TRIP III "4WD"
WITH GROUND FAULT
NO NEUTRAL METERING
1 WINDING



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	SD-2	18
16	STD-5	SD-1	18
TA1	RED	STD-7	+
TA2	BLACK	STD-6	+
TA3	BLUE	STD-8	+

1F

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-4	18
15	STD-4	SD-2	18
16	STD-5	SD-1	18
TA1	RED	STD-7	+
TA2	BLACK	STD-6	+
TA3	BLUE	STD-8	+

1G

\+ 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

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

USED ON: 2R:

* CAD GENERATED, DO NOT CHANGE MANUALLY.

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1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R\BKR\8M280YW

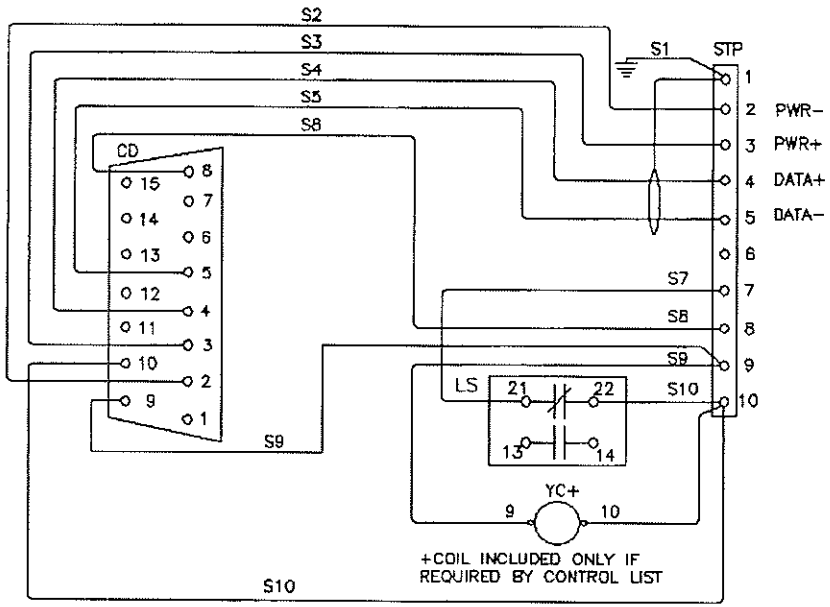
MATERIAL FIG. [1F], [1G]

N-C 2 C
CURRENT DATE 3-8 07-30-94
PART NUMBER 9-18 18-748-279-400
ISS 20-21 03

TYPE 22
REP. 23
PART NAME 24-43
STANDARD CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE
N.M. 44-48
49-53
SCALE NONE
CHARACTERISTICS
SHEET NO. 3-24

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STATIC TRIP III-C
COMMUNICATION HARNESS



2A

WIRE NO.	FROM	TO	SIZE
S1	STP-1	FRAME	18
S2	STP-2	CD-2	22
S3	STP-3	CD-3	22
S4	STP-4	CD-4	
S5	STP-5	CD-5	
SHLD	TERM	SHIELD ● STP-1	
S7	STP-7	LS-21	22
S8	STP-8	CD-8	22
S9	STP-9	CD-9	22
S9	STP-9	YC-9	22
S10	STP-10	LS-22	22
S10	STP-10	CD-10	22
S10	STP-10	YC-10	22

SHLD 2/C — B W

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

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

USED ON: 2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

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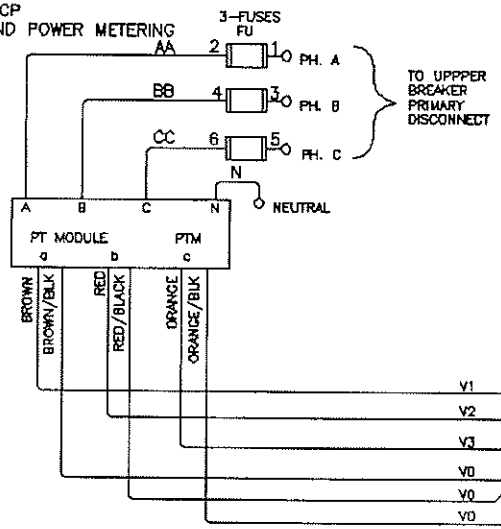
1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
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BULLETIN 07/94
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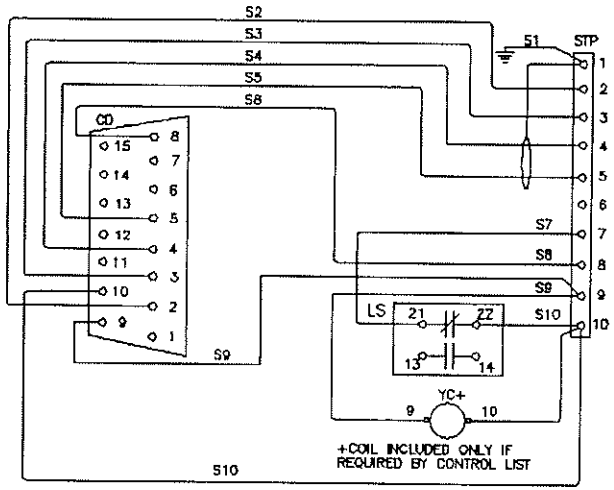
MATERIAL FIG. [2A]

N-C 2: C
CURRENT DATE 3-8: 07-30-94
PART NUMBER 9-16: 18-748-279-400
ISS 20-21: 03

TYPE 22 | REP 23 | PART NAME 24-43: STANDARD CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE | N.M. 44-48 | 49-53 | SCALE: NONE | CHARACTERISTICS | SHEET NO.: 4-24

STATIC TRIP III – CP
COMMUNICATION AND POWER METERING
WIRE HARNESS
3 PH. 3 WIRE





WIRE NO.	FROM	TO	SIZE
A	PH–A	FU–1	14
B	PH–B	FU–3	14
C	PH–C	FU–5	14
AA	FU–2	PTM–A	+
BB	FU–4	PTM–B	+
CC	FU–6	PTM–C	+

+DEVICE LEADS

WIRE NO.	FROM	TO	COLOR
N	NEUT	PTM–N	
V1	PTM–a	STV–1	BROWN
V2	PTM–b	STV–2	BRN/BLK
V3	PTM–c	STV–3	RED
V0	PTM–a	STV–4	RED/BLK
V0	PTM–b	STV–4	ORANGE
V0	PTM–c	STV–4	OR/BLK

SHLD 2/C — B W

WIRE NO.	FROM	TO	SIZE
S1	STP–1	FRAME	18
S2	STP–2	CD–2	22
S3	STP–3	CD–3	22
S4	STP–4	CD–4	
S5	STP–5	CD–5	
SHLD TERM		SHIELD @ STP–1	

WIRE NO.	FROM	TO	SIZE
S7	STP–7	LS–21	22
S8	STP–8	CD–8	22
S9	STP–9	CD–9	22
S9	STP–9	YC–9	22
S10	STP–10	LS–22	22
S10	STP–10	CD–10	22
S10	STP–10	YC–10	22

2B

DEVICE LIST
FU – POWER FUSE
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
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USED ON 2RI

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1. 01 07-06-93

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1–PLACE DECIMAL ± .06
2–PLACE DECIMAL ± .03
3–PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE

SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94

DATA BASE \R\BKR\8M280YW

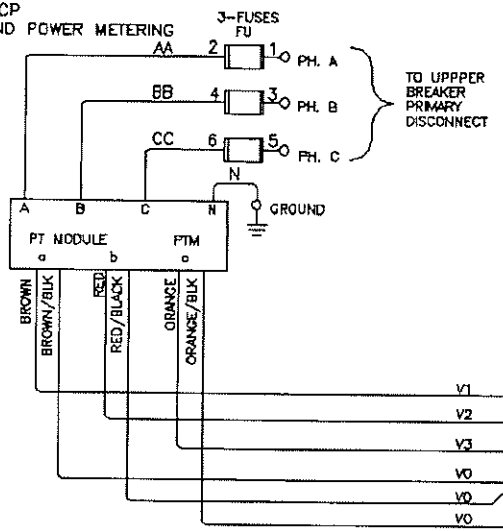
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C	07–30–94	18–748–279–400	03

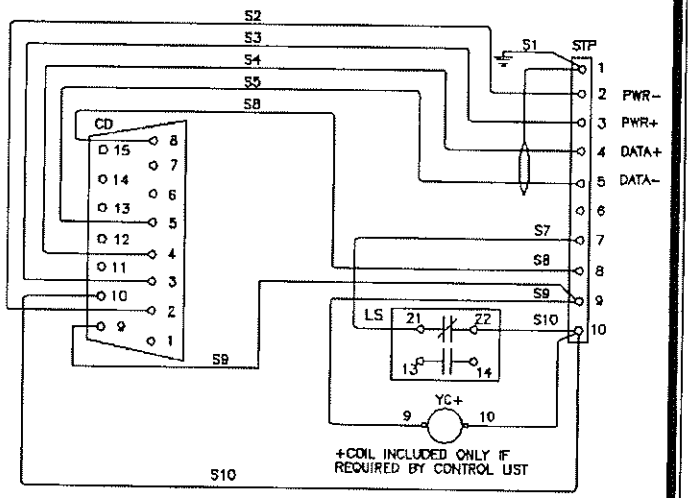
MATERIAL FIG. [2B]

TYPE 22	REP 23	PART NAME 24–43	N.M. 44–48	49–53	SCALE	CHARACTERISTICS	SHEET NO.
		STANDARD CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE			NONE		5–24

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STATIC TRIP III – CP
COMMUNICATION AND POWER METERING
WIRE HARNESS
3 PH. 4 WIRE





WIRE NO.	FROM	TO	SIZE
A	PH–A	FU–1	14
B	PH–B	FU–3	14
C	PH–C	FU–5	14
AA	FU–2	PTM–A	+
BB	FU–4	PTM–B	+
CC	FU–6	PTM–C	+

+DEVICE LEADS

WIRE NO.	FROM	TO	COLOR
N	NEUT	PTM–N	
N	NEUT	GRD	
V1	PTM–a	STV–1	BROWN
V2	PTM–b	STV–2	BRN/BLK
V3	PTM–c	STV–3	RED
V0	PTM–a	STV–4	RED/BLK
V0	PTM–b	STV–4	ORANGE
V0	PTM–c	STV–4	OR/BLK

SHLD 2/C B W

WIRE NO.	FROM	TO	SIZE
S1	STP–1	FRAME	18
S2	STP–2	CD–2	22
S3	STP–3	CD–3	22
S4	STP–4	CD–4	
S5	STP–5	CD–5	
SHLD	TERM	SHIELD @ STP–1	

WIRE NO.	FROM	TO	SIZE
S7	STP–7	LS–21	22
S8	STP–8	CD–8	22
S9	STP–9	CD–9	22
S9	STP–9	YC–9	22
S10	STP–10	LS–22	22
S10	STP–10	CD–10	22
S10	STP–10	YC–10	22

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 ADD MARK MO'S W/O APPROVAL OF DESIGN ENGINEERING

USED ON: 2R

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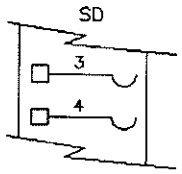
1–PLACE DECIMAL ± .06
2–PLACE DECIMAL ± .03
3–PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE R\BKR\8M280YW

MATERIAL FIG. [2C]
N–C 2 C
CURRENT DATE 3–8 07–30–94
PART NUMBER 9–19 18–748–279–400
ISS 20–21 03

TYPE 22
REP 23
PART NAME 24–42
STANDARD CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE
N.M. 44–48
43–53
SCALE NONE
CHARACTERISTICS
SHEET NO. 6–24

O:\RLTEMP\2C

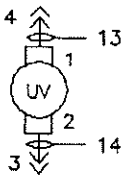
WIRING DIAGRAM



WIRE	FROM	TO	SIZE
14	SD-3	UV-2	18
13	SD-4	UV-1	18



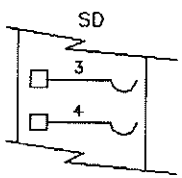
WIRING SCHEMATIC



UNDERVOLTAGE TRIP

3A

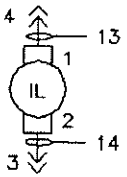
WIRING DIAGRAM



WIRE	FROM	TO	SIZE
14	SD-3	IL-2	18
13	SD-4	IL-1	18



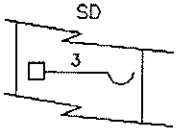
WIRING SCHEMATIC

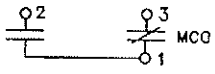


ELECTRO-MECHANICAL INTERLOCK

3B

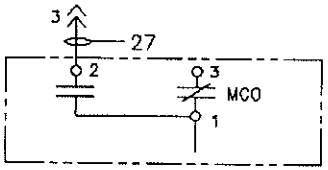
WIRING DIAGRAM





WIRE	FROM	TO	SIZE
27	SD-3	MCO-2	18

WIRING SCHEMATIC



SPRING CHARGE LIGHT (EO ONLY)

3C

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

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

USED ON 2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1.

01 07-06-93

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1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE

SIMILAR TO

DR AHT
CH SEM
APP

BULLETIN 07/94

DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [3A], [3B], [3C]

N-C C

CURRENT DATE 07-30-94

PART NUMBER 18-748-279-400

ISS 03

TYPE

REP

PART NAME RL BREAKER WIRING

N.M.

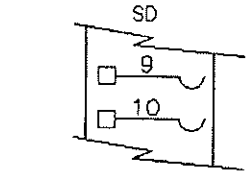
SCALE NONE

CHARACTERISTICS

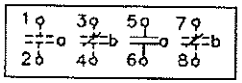
SHEET NO. 7-24

O:\RLTEMP\3RLBRKR

WIRING DIAGRAM

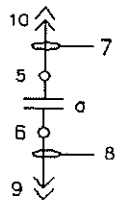


AS



WIRE	FROM	TO	SIZE
8	SD-9	AS-6	14
7	SD-10	AS-5	14

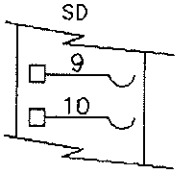
WIRING SCHEMATIC

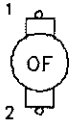


AUXILIARY CONTACT 1a

4A

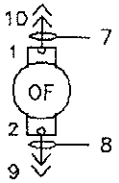
WIRING DIAGRAM





WIRE	FROM	TO	SIZE
8	SD-9	OF-2	18
7	SD-10	OF-1	18

WIRING SCHEMATIC

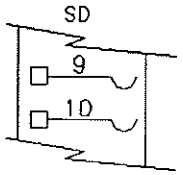


BLOW FUSE TRIP *

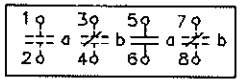
(FOR 3200 & 4000A BREAKERS)

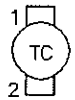
4B

WIRING DIAGRAM



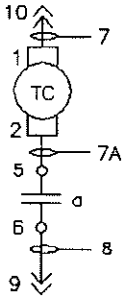
AS





WIRE	FROM	TO	SIZE
8	SD-9	AS-6	18
7	SD-10	TC-1	18
7A	AS-5	TC-2	18

WIRING SCHEMATIC



DUAL SHUNT TRIP

4C

*THIS FIGURE IS REQUIRED FOR 3200 AND 4000A FUSED BREAKERS

DEVICE LIST

OFLO – OVERLOAD FUSE COIL
TC – SHUNT TRIP COIL
AS – AUXILIARY SWITCH ASSEMBLY
SD – SECONDARY DISCONNECT
a – AUXILIARY SWITCH CONTRACT OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN

STANDARD DRAWING

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

USED ON ER

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1 | 01 | 07-06-93

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

MACHINED SURFACE TEXTURE

SIMILAR TO

DR AHT
CH SEM
APP

BULLETIN 07/94

DATA BASE \R\BKR\BM280YW

MATERIAL FIG. [4A], [4B], [4C]

N-C 2: C

CURRENT DATE 3-8: 07-30-94

PART NUMBER 9-19: 18-748-279-400

ISS 20-21: 03

TYPE 22

REP 23

PART NAME 24-43: RL BREAKER WIRING

N.M. 44-48

49-53

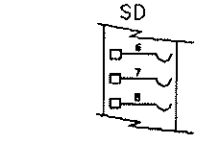
SCALE: NONE

CHARACTERISTICS

SHEET NO.: 8-24

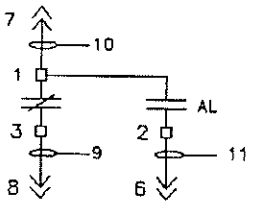
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WIRING DIAGRAM



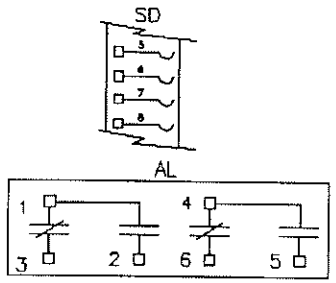
WIRE	FROM	TO	SIZE
11	SD-6	AL-2	18
10	SD-7	AL-1	18
9	SD-8	AL-3	18

WIRING SCHEMATIC



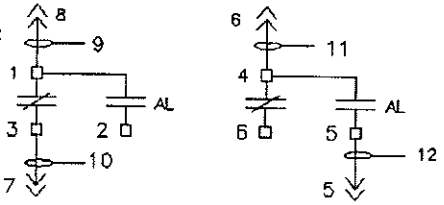
BELL ALARM – 1 FORM C CONTACT 5A

WIRING DIAGRAM



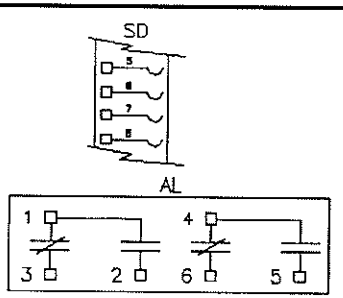
WIRE	FROM	TO	SIZE
12	SD-5	AL-5	18
11	SD-6	AL-4	18
10	SD-7	AL-3	18
9	SD-8	AL-1	18

WIRING SCHEMATIC



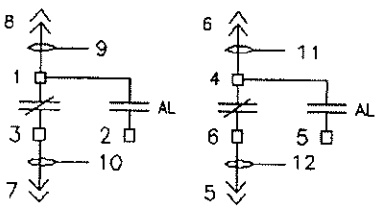
BELL ALARM 1a & 1b CONTACTS 5B

WIRING DIAGRAM



WIRE	FROM	TO	SIZE
12	SD-5	AL-6	18
11	SD-6	AL-4	18
10	SD-7	AL-3	18
9	SD-8	AL-1	18

WIRING SCHEMATIC



BELL ALARM 2b CONTACTS 5C

DEVICE LIST
SD – SECONDARY DISCONNECT
AL – ALARM CONTACTS

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

USED ON 2R.

* CAD GENERATED, DO NOT CHANGE MANUALLY.

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1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [5A], [5B], [5C]

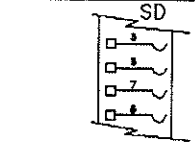
N-C 2 C | CURRENT DATE 5-8 07-30-94 | PART NUMBER 9-19 18-748-279-400 | ISS 20-21 03

TYPE 22 | REP 23 | PART NAME 24-43 RL BREAKER WIRING | N.N. 44-48 | 49-53 | SCALE NONE | CHARACTERISTICS | SHEET NO. 9-24

O:\RLTEMP\5ARLBRKR

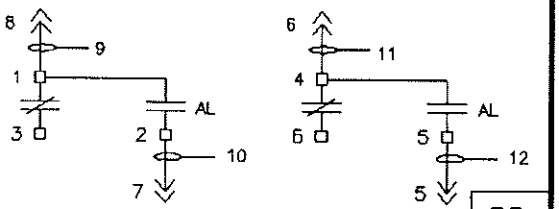
5D

WIRING DIAGRAM



WIRE	FROM	TO	SIZE
12	SD-5	AL-5	18
11	SD-6	AL-4	18
10	SD-7	AL-2	18
9	SD-8	AL-1	18

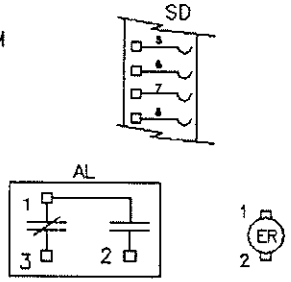
WIRING SCHEMATIC



BELL ALARM 2A CONTACT

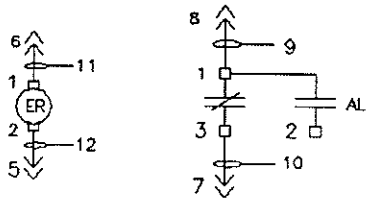
5E

WIRING DIAGRAM



WIRE	FROM	TO	SIZE
12	SD-5	ER-2	18
11	SD-6	ER-1	18
10	SD-7	AL-3	18
9	SD-8	AL-1	18

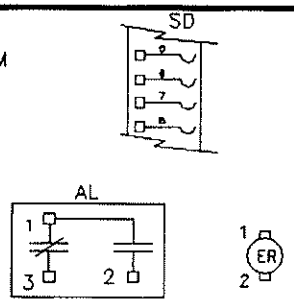
WIRING SCHEMATIC



BELL ALARM 1b CONTACT
WITH ELECTRIC RESET

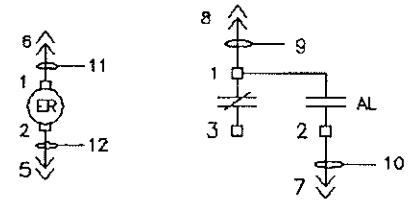
5F

WIRING DIAGRAM



WIRE	FROM	TO	SIZE
12	SD-5	ER-2	18
11	SD-6	ER-1	18
10	SD-7	AL-2	18
9	SD-8	AL-1	18

WIRING SCHEMATIC



BELL ALARM 1a CONTACT
WITH ELECTRIC RESET

DEVICE LIST
ER – ELECTRIC RESET COIL
SD – SECONDARY DISCONNECT
AL – ALARM CONTACTS

STANDARD DRAWING
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SEE SHEET #1

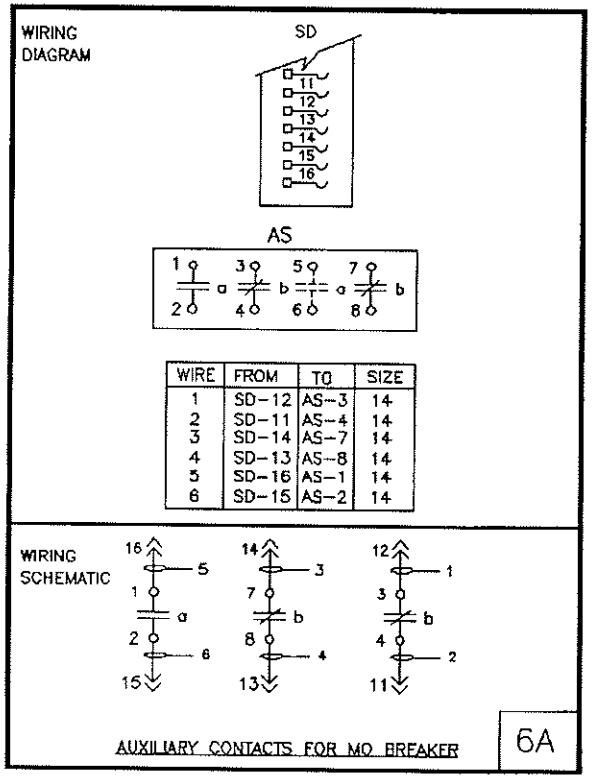
10
07-06-83

1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
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BULLETIN 07/94
DATA BASE \R\BKR\BM280YW

MATERIAL FIG. [5D], [5E], [5F]

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

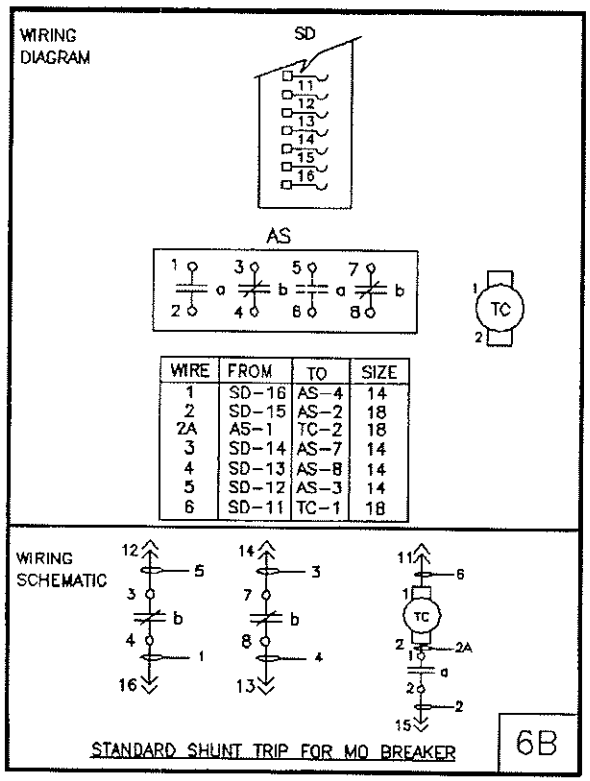
TYPE 22
REP 23
PART NAME
RL BREAKER WIRING
N.M.
SCALE NONE
CHARACTERISTICS
SHEET NO. 10-24



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

AUXILIARY CONTACTS FOR MO BREAKER

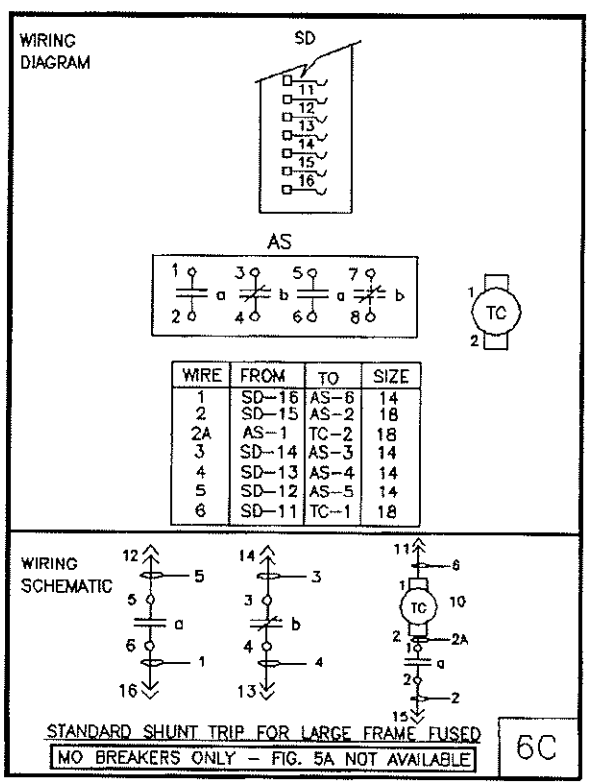
6A



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

STANDARD SHUNT TRIP FOR MO BREAKER

6B



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

STANDARD SHUNT TRIP FOR LARGE FRAME FUSED MO BREAKERS ONLY – FIG. 5A NOT AVAILABLE

6C

DEVICE LIST

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

STANDARD DRAWING

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

USED ON: 2R

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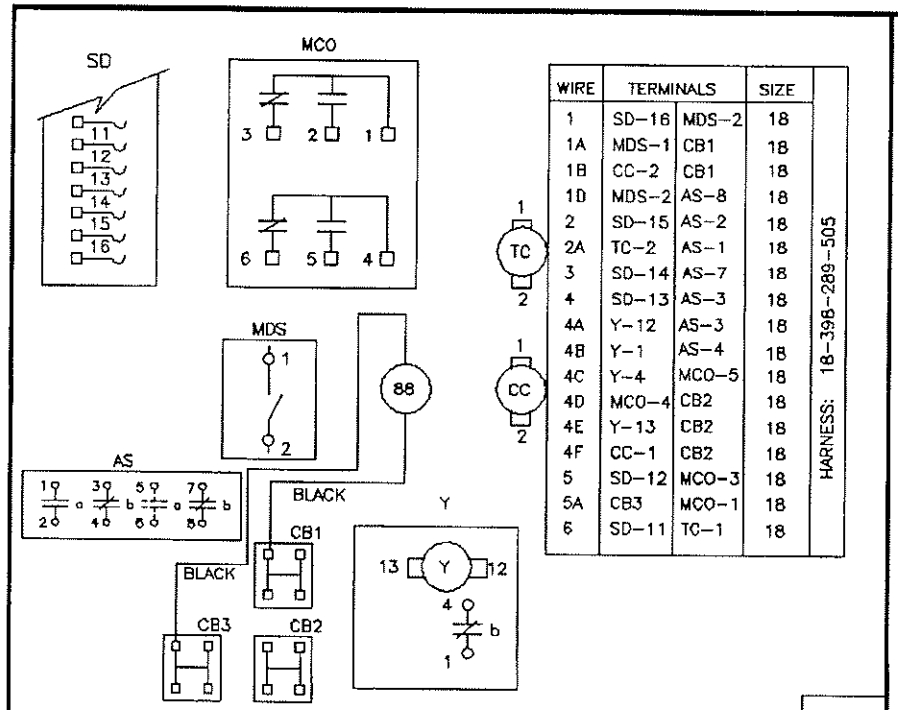
1-PLACE DECIMAL ± .08
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [6A], [6B], [6C]

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

TYPE 22 | REP 23 | PART NAME 24-42: RL BREAKER WIRING | N.M. 44-48 | 49-53 | SCALE NONE | CHARACTERISTIC | SHEET NO. 11-24

O:\RLTEMP\6RLBRKR

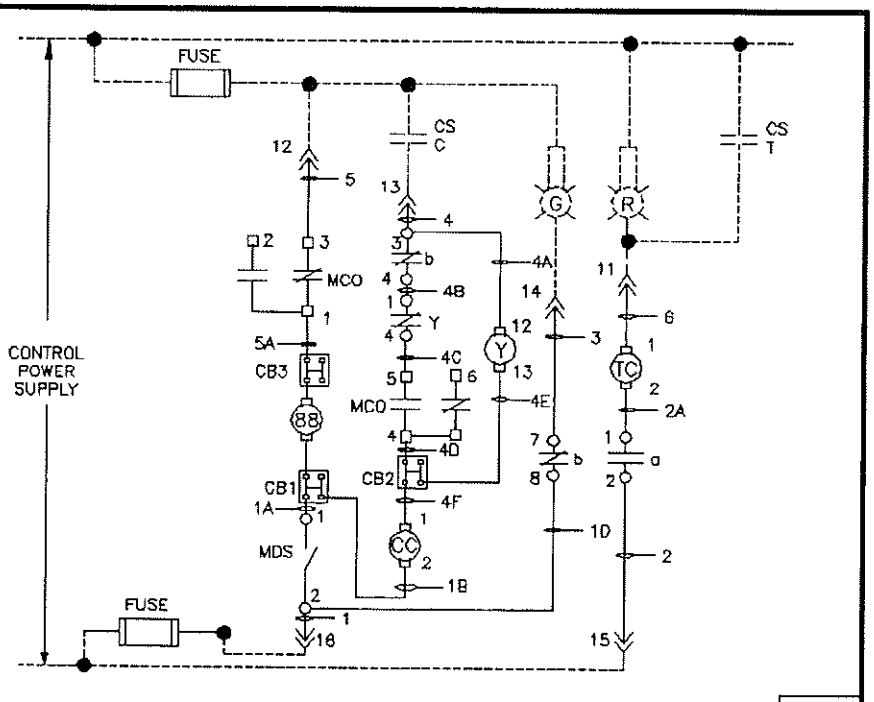


WIRE	TERMINALS		SIZE
1	SD–16	MDS–2	18
1A	MDS–1	CB1	18
1B	CC–2	CB1	18
1D	MDS–2	AS–8	18
2	SD–15	AS–2	18
2A	TC–2	AS–1	18
3	SD–14	AS–7	18
4	SD–13	AS–3	18
4A	Y–12	AS–3	18
4B	Y–1	AS–4	18
4C	Y–4	MCO–5	18
4D	MCO–4	CB2	18
4E	Y–13	CB2	18
4F	CC–1	CB2	18
5	SD–12	MCO–3	18
5A	CB3	MCO–1	18
6	SD–11	TC–1	18

HARNESS: 18-396-289-505

STANDARD EO BREAKER WIRING DIAGRAM

6D



STANDARD EO BREAKER SCHEMATIC

6D

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 OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R – RED INDICATION LAMP, BKR. CLOSED
G – GREEN INDICATION LAMP, BKR. OPEN
CS/C– CONTROL SWITCH, CLOSE CONTACT
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
DO NOT DESTROY, CHANGE OR ADD MARK NO'S W/O APPROVAL OF DESIGN ENGINEERING.

USED ON 2R1

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1.

02 08-23-93 AHT UPDATED WIRING AND SCHEMATIC DIAGRAMS
01 07-06-93

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1–PLACE DECIMAL ± .06
2–PLACE DECIMAL ± .03
3–PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE

SIMILAR TO

DR AHT
CH SEM
APP

BULLETIN 07/94

DATA BASE \R\BKR\8M28DYW

MATERIAL FIG. [6D]

N–C 2 C

CURRENT DATE 3–8 07–30–94

PART NUMBER 9–19 18–748–279–400

ISS 20–21 03

TYPE 22

REP 23

PART NAME 24–43 RL WIRING DIAGRAM

N.N. 44–48

49–53

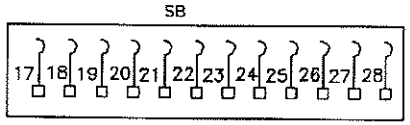
SCALE NTS

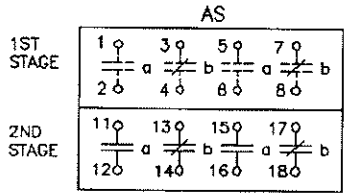
CHARACTERISTICS

SHEET NO. 13–24

O:\RLTEMP\6DRLBRKR

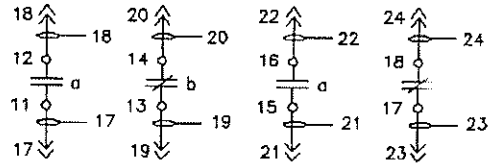
WIRING DIAGRAM





WIRE	FROM	TO	SIZE
24	SB-24	AS-18	14
23	SB-23	AS-17	14
22	SB-22	AS-16	14
21	SB-21	AS-15	14
20	SB-20	AS-14	14
19	SB-19	AS-13	14
18	SB-18	AS-12	14
17	SB-17	AS-11	14

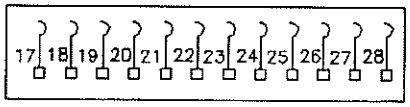
WIRING SCHEMATIC

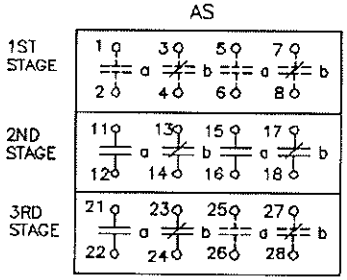


AUXILIARY CONTACTS 2a & 2b*

7A

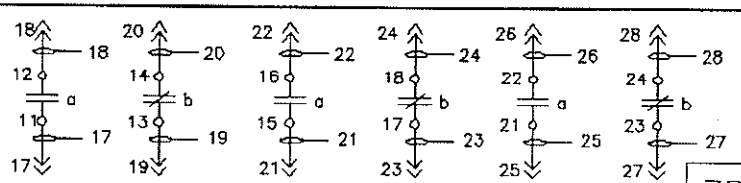
WIRING DIAGRAM





WIRE	FROM	TO	SIZE
28	SB-28	AS-24	14
27	SB-27	AS-23	14
26	SB-26	AS-22	14
25	SB-25	AS-21	14
24	SB-24	AS-18	14
23	SB-23	AS-17	14
22	SB-22	AS-16	14
21	SB-21	AS-15	14
20	SB-20	AS-14	14
19	SB-19	AS-13	14
18	SB-18	AS-12	14
17	SB-17	AS-11	14

WIRING SCHEMATIC



AUXILIARY CONTACTS 3a & 3b*

7B

* 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 DESTROY, CHANGE OR ADD MARK NO'S W/O APPROVAL OF DESIGN ENGINEERING.

USED ON: 2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1. 01 07-06-93

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1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEN
APP
BULLETIN 07/94

DATA BASE \R\BKR\8M280YW

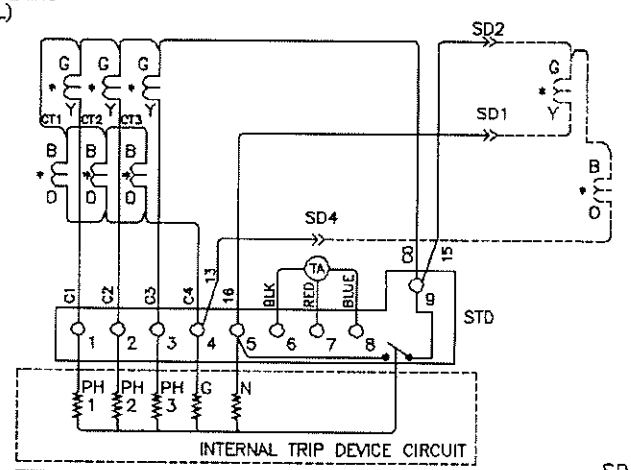
MATERIAL FIG. [7A],[7B]

N-C 2 C | CURRENT DATE 3-8 07-30-94 | PART NUMBER 9-18 18-748-279-400 | ISS 20-21 03

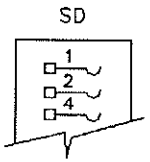
TYPE 22 | REP 23 | PART NAME 24-43 RL BREAKER WIRING | N.M. 44-48 | 49-53 | SCALE NONE | CHARACTERISTICS | SHEET NO. 12-24

D:\RLTEMP\7RLBRKR

STATIC TRIP III "4WRN–NEC"
WITH GROUND FAULT
WITH NEUTRAL METERING
* 2 WINDING (DUAL)
SPECIAL

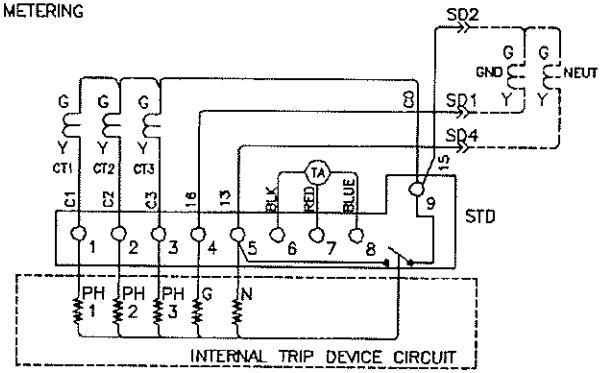


WIRE NO.	FROM	TO	WIRE	WIRE NO.	FROM	TO	WIRE
C1	CT1–Y	STD–1	18	C4	CT1–O	CT2–O	18
C2	CT2–Y	STD–2	18	C4	CT2–O	CT3–O	18
C3	CT3–Y	STD–3	18	C4	CT3–O	STD–4	18
CO	CT3–B	CT2–B	18	13	STD–4	SD–4	18
CO	CT2–B	CT1–B	18	15	STD–9	SD–2	18
CO	CT1–B	CT1–G	18	16	STD–5	SD–1	18
CO	CT1–G	CT2–G	18	TA1	RED	STD–7	+
CO	CT2–G	CT3–G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

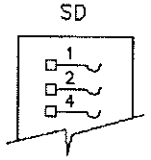


20A

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
CO	CT1–G	CT2–G	18
CO	CT2–G	CT3–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

\+ DEVICE LEADS

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

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

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

USED ON 2R1 • CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1. 01 07-06-93

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Electrical Apparatus Division

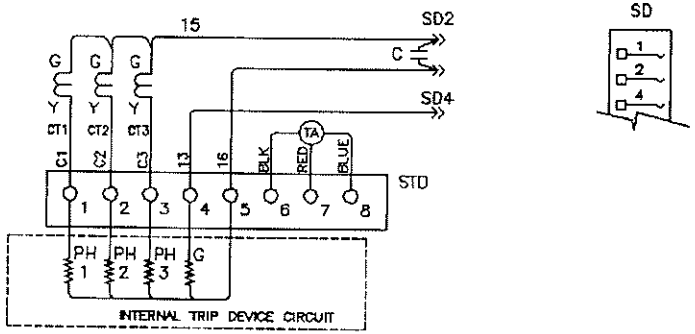
1–PLACE DECIMAL ± .06
2–PLACE DECIMAL ± .03
3–PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [20A], [20B]
N–C 2 C
CURRENT DATE 3–8 07-30-94
PART NUMBER 9–19 18-748-279-400
ISS 20–21 03

TYPE 22 | REP 23 | PART NAME 24–43 SPECIAL CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE | N.N. 44–48 | 49–53 | SCALE NONE | CHARACTERISTICS | SHEET NO. 14–24

0:\RLTEMP\20A20B

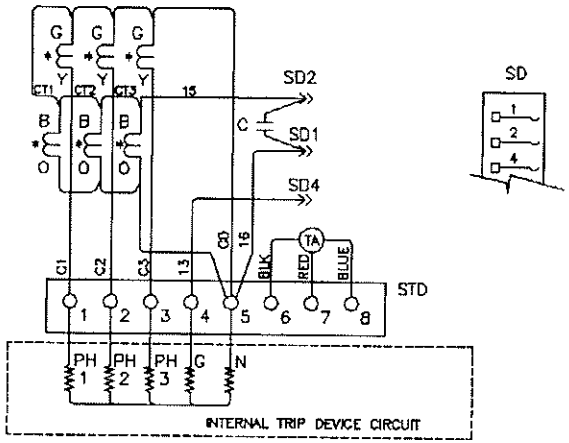
STATIC TRIP III "4WM"
WITH GROUND FAULT
NO NEUTRAL METERING
1 WINDING
SPECIAL



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

WIRE NO.	FROM	TO	WIRE
CO	CT1-O	CT2-O	18
CO	CT2-O	CT3-O	18
CO	CT3-O	STD-5	18
13	STD-4	SD-4	18
15	CT3-B	SD-2	18
TA1	RED	STD-7	+
TA2	BLACK	STD-6	+
TA3	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:
1. WITH FIG. 20C OR 20D, FIG. 3A AND 3B ARE NOT AVAILABLE.
2. CONTACT "C" IS CLOSED WHEN BREAKER IS OUT OF COMPARTMENT.

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

USED ON: 2R.

SEE SHEET #1 | 01 | 07-06-93

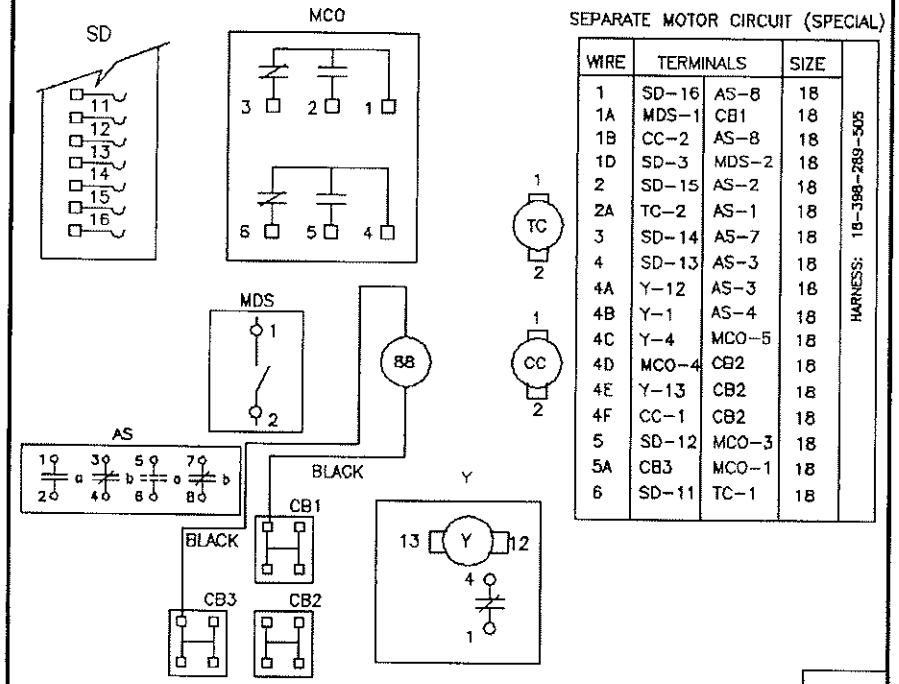
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1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
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BULLETIN 07 / 94
DATA BASE \R\BKR\8M280YW

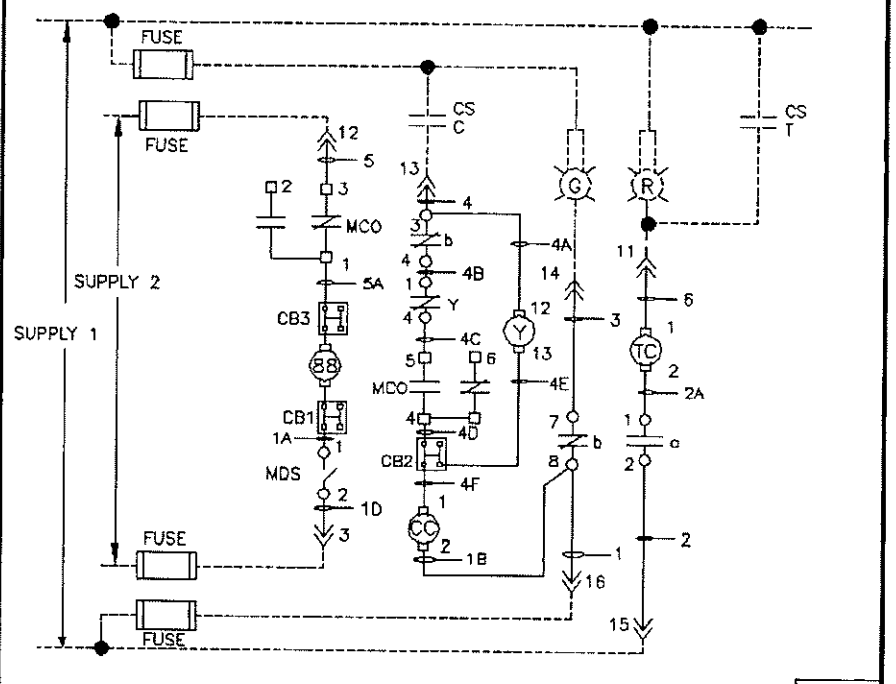
MATERIAL FIG. [20C], [20D]	N-C 2	CURRENT DATE 3-8	PART NUMBER 9-19	ISS 20-21
	C	07-30-94	18-748-279-400	03

TYPE 22	REP 23	PART NAME 24-43	N.N. 44-48	49-53	SCALE	CHARACTERISTICS	SHEET NO.
		SPECIAL CONNECTION DIAGRAMS FOR STATIC TRIP III DEVICE			NONE		15-24

O:\RLTEMP\20C20D



WIRE	TERMINALS		SIZE	HARNESS: 18-398-289-505
1	SD-16	AS-8	18	
1A	MDS-1	CB1	18	
1B	CC-2	AS-8	18	
1D	SD-3	MDS-2	18	
2	SD-15	AS-2	18	
2A	TC-2	AS-1	18	
3	SD-14	AS-7	18	
4	SD-13	AS-3	18	
4A	Y-12	AS-3	18	
4B	Y-1	AS-4	18	
4C	Y-4	MCO-5	18	
4D	MCO-4	CB2	18	
4E	Y-13	CB2	18	
4F	CC-1	CB2	18	
5	SD-12	MCO-3	18	
5A	CB3	MCO-1	18	
6	SD-11	TC-1	18	



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 OPEN WHEN BREAKER IS OPEN
b	–	AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R	–	RED INDICATION LAMP, BKR. CLOSED
G	–	GREEN INDICATION LAMP, BKR. OPEN
CS/C	–	CONTROL SWITCH, CLOSE CONTACT
CS/T	–	CONTROL SWITCH, TRIP CONTACT
AS	–	AUXILIARY SWITCH
SD	–	SECONDARY DISCONNECT

NOTES:
1. FIGURES 3A, 3B, 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
○ – NULTIPLE CONNECTIONS POSSIBLE

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

USED ON: 2R

01 UPDATED WIRING DWG. AND SCHEMATIC 07-06-93
02 08-23-93 AHT
SEE SHEET #1.

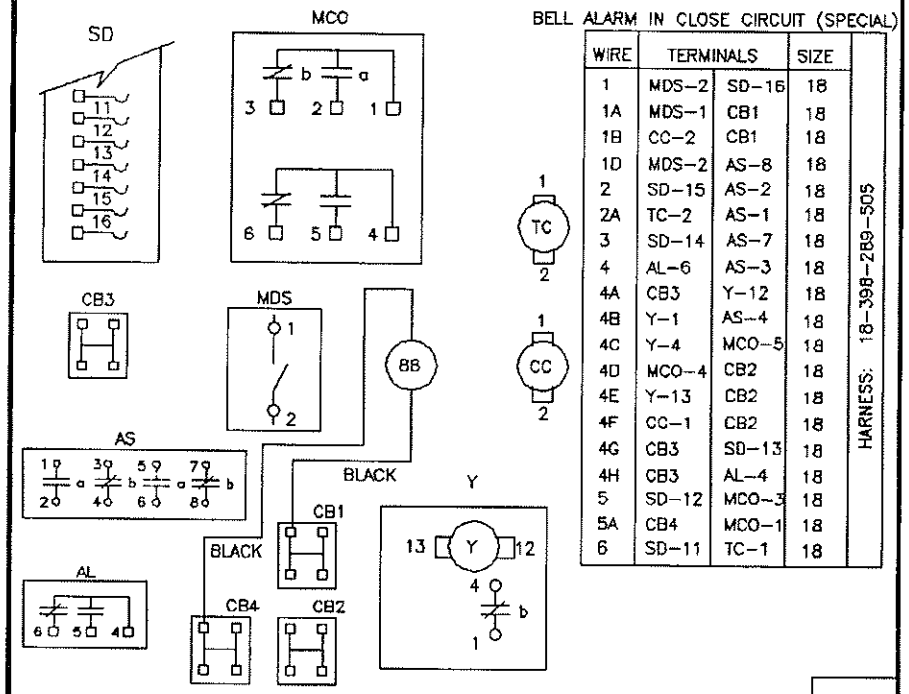
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1–PLACE DECIMAL ± .06
2–PLACE DECIMAL ± .03
3–PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [21A]
N-C 2 C
CURRENT DATE 07-30-94
PART NUMBER 18-748-279-400
ISS 03

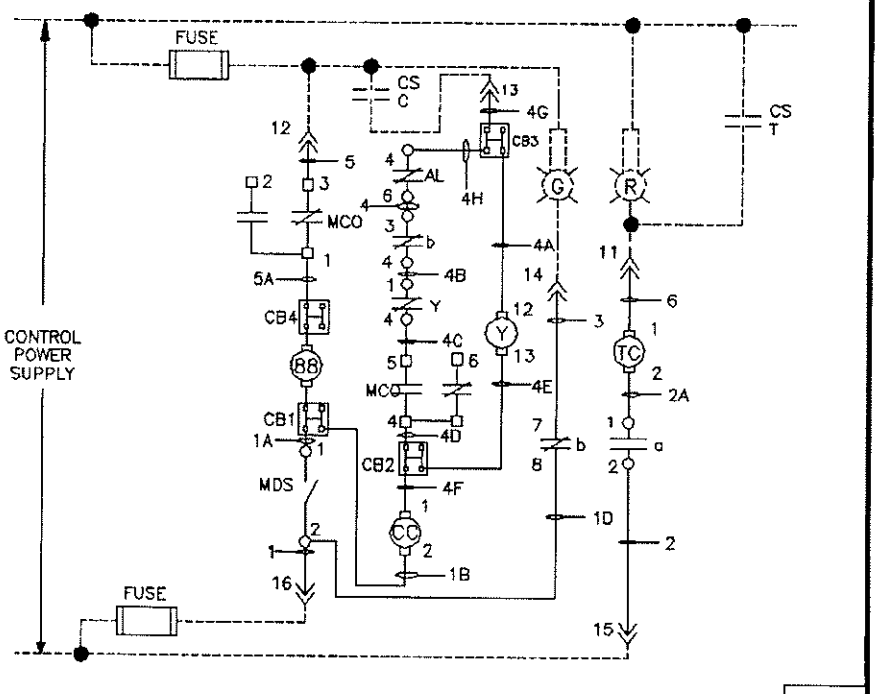
TYPE 22 | REP 23 | PART NAME RL WIRING DIAGRAM (SPECIAL)
N.N. | SCALE NTS | CHARACTERISTICS | SHEET NO. 16-24

O:\RLTEMP\21ARLBKR



BELL ALARM IN CLOSE CIRCUIT (SPECIAL)

WIRE	TERMINALS		SIZE	HARNESS: 18-398-289-505
1	MDS-2	SD-16	18	
1A	MDS-1	CB1	18	
1B	CC-2	CB1	18	
1D	MDS-2	AS-8	18	
2	SD-15	AS-2	18	
2A	TC-2	AS-1	18	
3	SD-14	AS-7	18	
4	AL-6	AS-3	18	
4A	CB3	Y-12	18	
4B	Y-1	AS-4	18	
4C	Y-4	MCO-5	18	
4D	MCO-4	CB2	18	
4E	Y-13	CB2	18	
4F	CC-1	CB2	18	
4G	CB3	SD-13	18	
4H	CB3	AL-4	18	
5	SD-12	MCO-3	18	
5A	CB4	MCO-1	18	
6	SD-11	TC-1	18	



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 OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R – RED INDICATION LAMP, BKR. CLOSED
G – GREEN INDICATION LAMP, BKR. 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 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
DO NOT DESTROY, CHANGE OR ADD MARK INK'S W/O APPROVAL OF DESIGN ENGINEERING.

USED ON 2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1.

01 07-06-93 UPDATED WIRING DIAG. AND SCHEMATIC
02 08-23-93 AHT

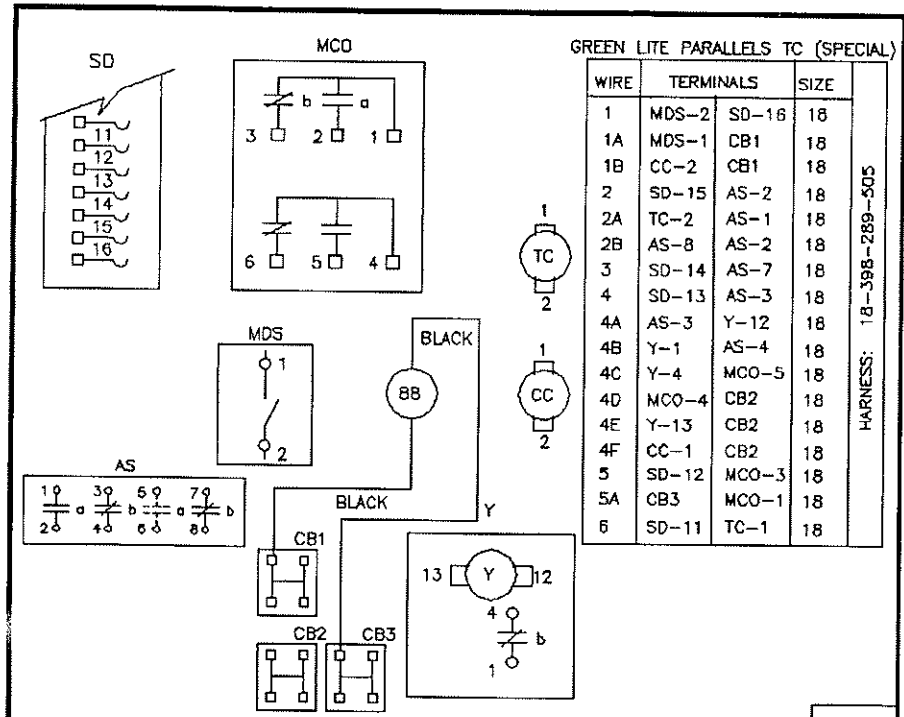
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1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R\BKR\BM280YW

MATERIAL FIG. [21B]
N-C 2 C
CURRENT DATE 3-8 07-30-94
PART NUMBER 9-19 18-748-279-400
ISS 20-21 03

TYPE 22
REP 23
PART NAME 24-43 RL WIRING DIAGRAM (SPECIAL)
N.M. 44-48
40-53
SCALE NTS
CHARACTER SIZE
SHEET NO. 17-24

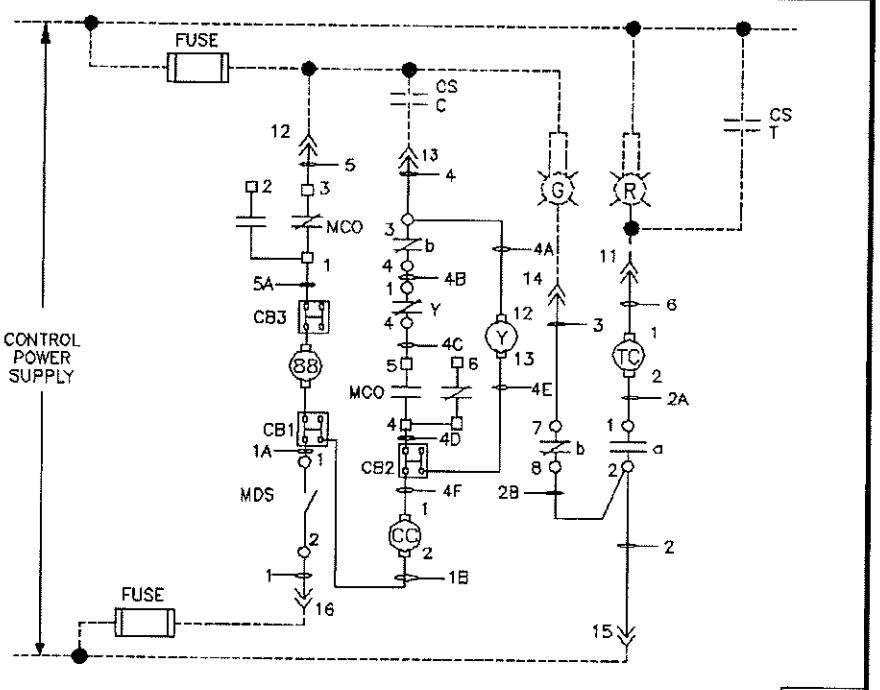
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GREEN LITE PARALLELS TC (SPECIAL)

WIRE	TERMINALS		SIZE
1	MDS-2	SD-16	18
1A	MDS-1	CB1	18
1B	CC-2	CB1	18
2	SD-15	AS-2	18
2A	TC-2	AS-1	18
2B	AS-8	AS-2	18
3	SD-14	AS-7	18
4	SD-13	AS-3	18
4A	AS-3	Y-12	18
4B	Y-1	AS-4	18
4C	Y-4	MCO-5	18
4D	MCO-4	CB2	18
4E	Y-13	CB2	18
4F	CC-1	CB2	18
5	SD-12	MCO-3	18
5A	CB3	MCO-1	18
6	SD-11	TC-1	18

HARNESS: 18-398-289-505



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 OPEN WHEN BREAKER IS OPEN
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G - GREEN INDICATION LAMP, BKR. OPEN
CS/C - CONTROL SWITCH, CLOSE CONTACT
CS/T - CONTROL SWITCH, TRIP CONTACT
AS - AUXILIARY SWITCH
SD - SECONDARY DISCONNECT

NOTES:
1. FIG. 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
DO NOT DESTROY, CHANGE OR ADD MARK NOTE W/O APPROVAL OF DESIGN ENGINEERING.

USED ON: 2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1.

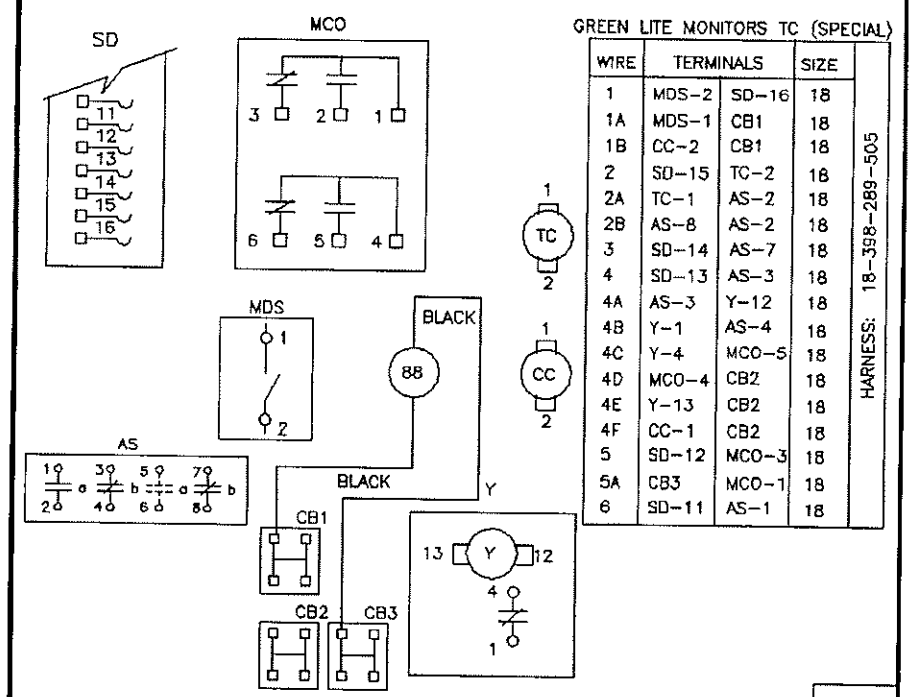
01	UPDATED WIRING DIAG AND SCHEMATIC	07-06-93
02		08-23-93 AHT

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1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
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ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE R\BKR\8M280YW

MATERIAL FIG. [21C]
N-C 2: C
CURRENT DATE 3-8: 07-30-94
PART NUMBER 9-19: 18-748-279-400
ISS. 20-21: 03
TYPE 22
REP 23
PART NAME 24-43: RL WIRING DIAGRAM (SPECIAL)
N.M. 44-48
49-53
SCALE: NTS
CHARACTERISTICS
SHEET NO.: 18-24

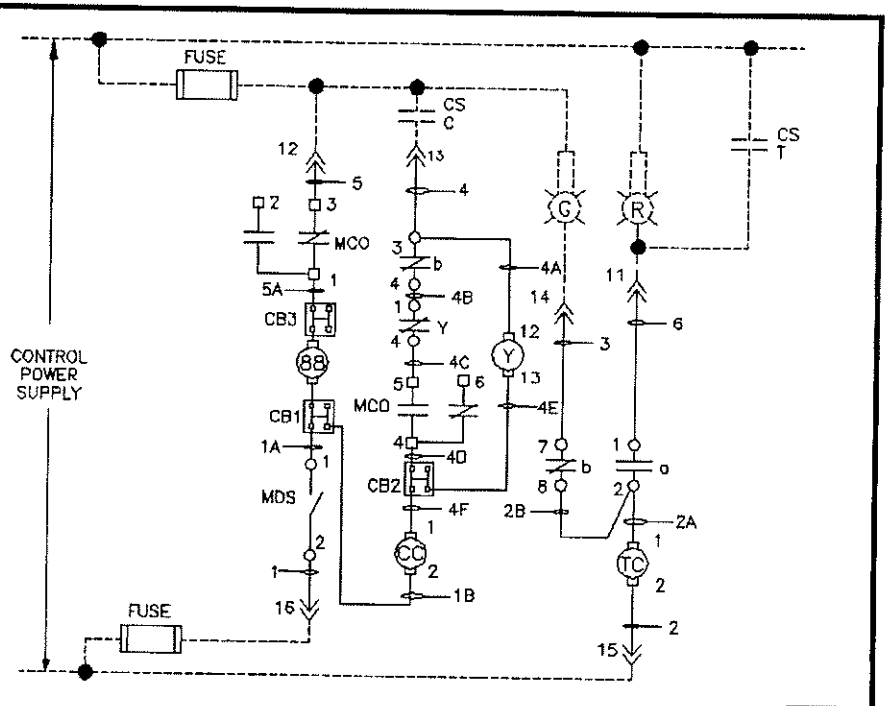
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GREEN LITE MONITORS TC (SPECIAL)

WIRE	TERMINALS		SIZE
1	MDS-2	SD-16	18
1A	MDS-1	CB1	18
1B	CC-2	CB1	18
2	SD-15	TC-2	18
2A	TC-1	AS-2	18
2B	AS-8	AS-2	18
3	SD-14	AS-7	18
4	SD-13	AS-3	18
4A	AS-3	Y-12	18
4B	Y-1	AS-4	18
4C	Y-4	MCO-5	18
4D	MCO-4	CB2	18
4E	Y-13	CB2	18
4F	CC-1	CB2	18
5	SD-12	MCO-3	18
5A	CB3	MCO-1	18
6	SD-11	AS-1	18

HARNESS: 18-398-289-505



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 OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R – RED INDICATION LAMP, BKR. CLOSED
G – GREEN INDICATION LAMP, BKR. OPEN
CS/C – CONTROL SWITCH, CLOSE CONTACT
CS/T – CONTROL SWITCH, TRIP 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
#16 WIRE SIS. 00-557-286-003

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

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

USED ON 2R\

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1.

02 08-23-93 A-T UPDATED WIRING DIAG. AND SCHEMATIC
01 07-06-93

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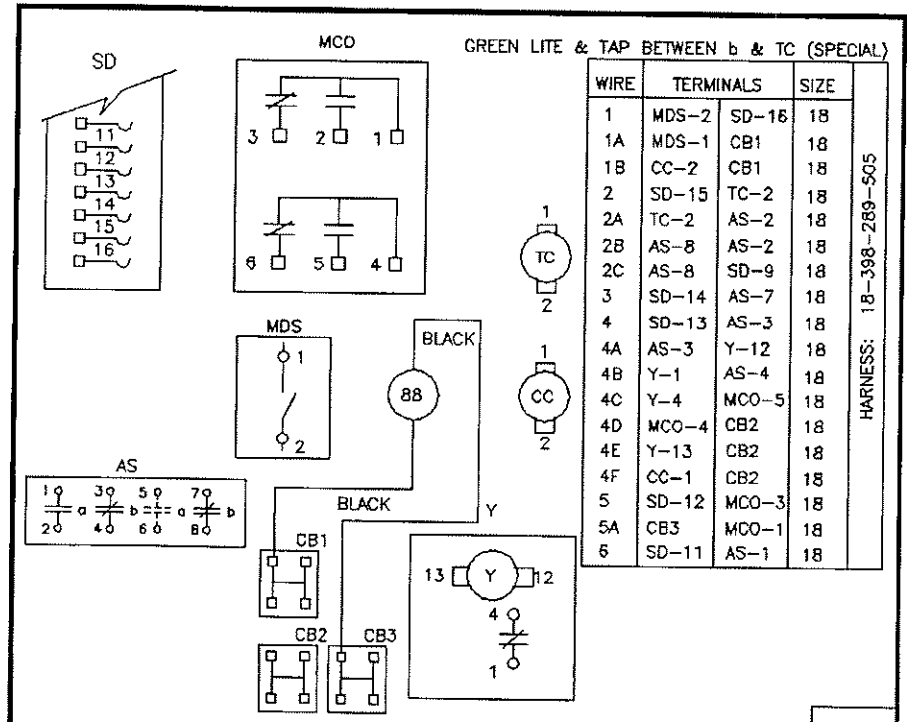
1-PLACE DECIMAL ± .06
2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94

DATA BASE \R\BKR\BM280YW

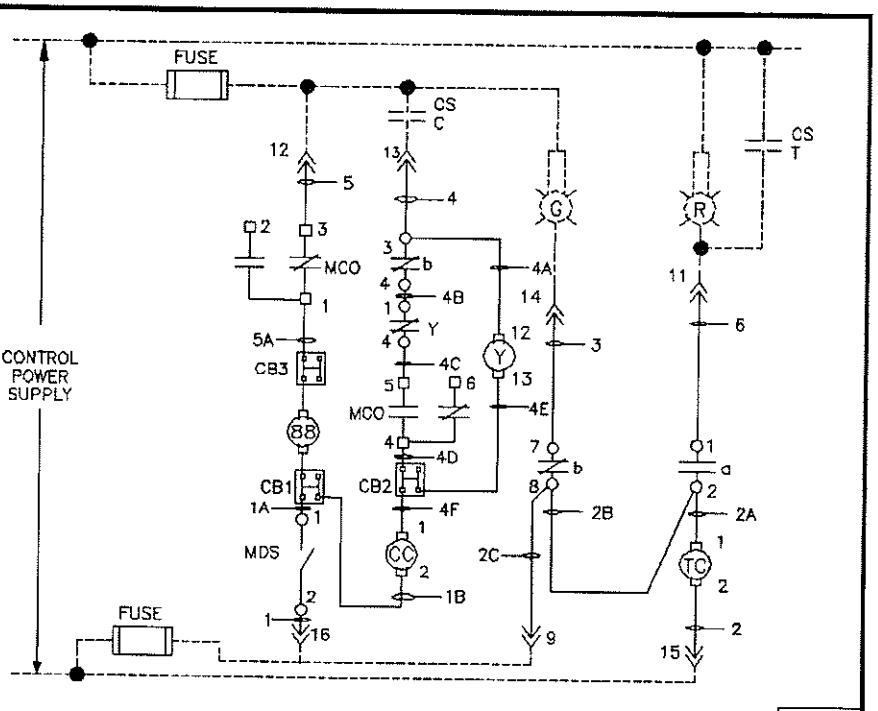
MATERIAL FIG. [21D]
N-C-C
CURRENT DATE 07-30-94
PART NUMBER 18-748-279-400
ISS 20-21 03

TYPE 22 | REP 23 | PART NAME 24-43: RL WIRING DIAGRAM (SPECIAL)
N.M. 44-48 | 49-53
SCALE NTS
CHARACTERISTICS
SHEET NO. 19-24

O:\RLTEMP\21DRLBKR



WIRE	TERMINALS		SIZE
1	MDS-2	SD-16	18
1A	MDS-1	CB1	18
1B	CC-2	CB1	18
2	SD-15	TC-2	18
2A	TC-2	AS-2	18
2B	AS-8	AS-2	18
2C	AS-8	SD-9	18
3	SD-14	AS-7	18
4	SD-13	AS-3	18
4A	AS-3	Y-12	18
4B	Y-1	AS-4	18
4C	Y-4	MCO-5	18
4D	MCO-4	CB2	18
4E	Y-13	CB2	18
4F	CC-1	CB2	18
5	SD-12	MCO-3	18
5A	CB3	MCO-1	18
6	SD-11	AS-1	18



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 OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R – RED INDICATION LAMP, BKR. CLOSED
G – GREEN INDICATION LAMP, BKR. OPEN
CS/C – CONTROL SWITCH, CLOSE CONTACT
CS/T – CONTROL SWITCH, TRIP CONTACT
AS – AUXILIARY SWITCH
SD – SECONDARY DISCONNECT

NOTES:
1. 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
DO NOT DESTROY, CHANGE OR ADD MARK NO'S W/O APPROVAL OF DESIGN ENGINEERING.
* CAD GENERATED, DO NOT CHANGE MANUALLY.

USED ON: 2R

SEE SHEET #1.

01	07-06-93	UPDATED WIRING DIAG. AND SCHEMATIC
02	08-23-93	AHT

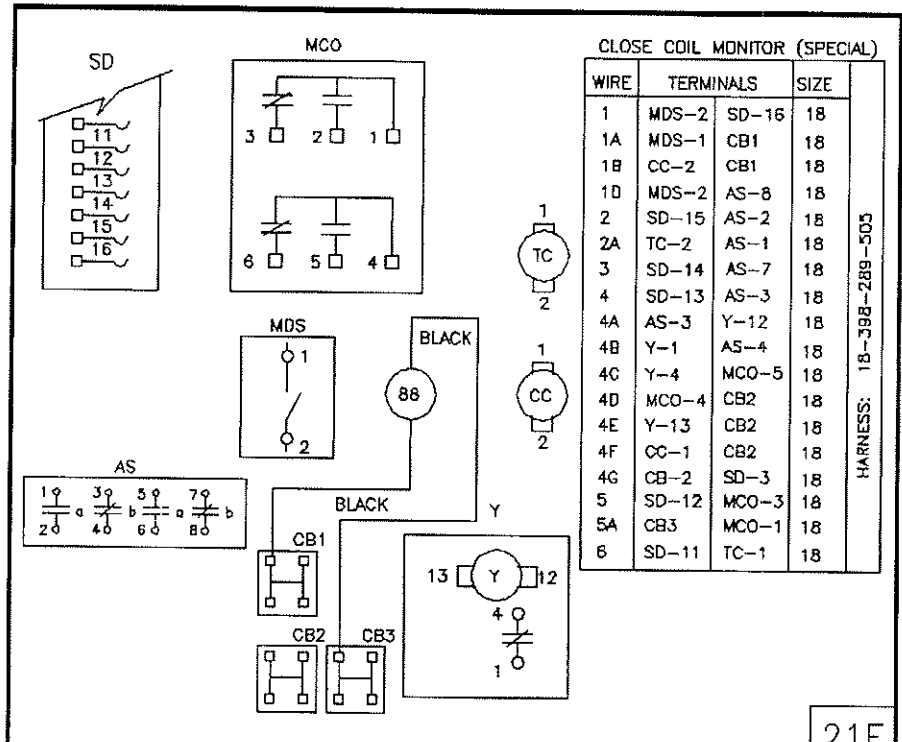
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1–PLACE DECIMAL ± .06
2–PLACE DECIMAL ± .03
3–PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEN
APP
BULLETIN 07/94
DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [21E]	N-C 2	CURRENT DATE 3-8	PART NUMBER 9-19	ISS 20-21
	C	07-30-94	18-748-279-400	03

TYPE 22	REP 23	PART NAME 24-43	N.M. 44-48	49-53	SCALE	CHARACTERISTICS	SHEET NO.
		RL WIRING DIAGRAM (SPECIAL)			NTS		20-24

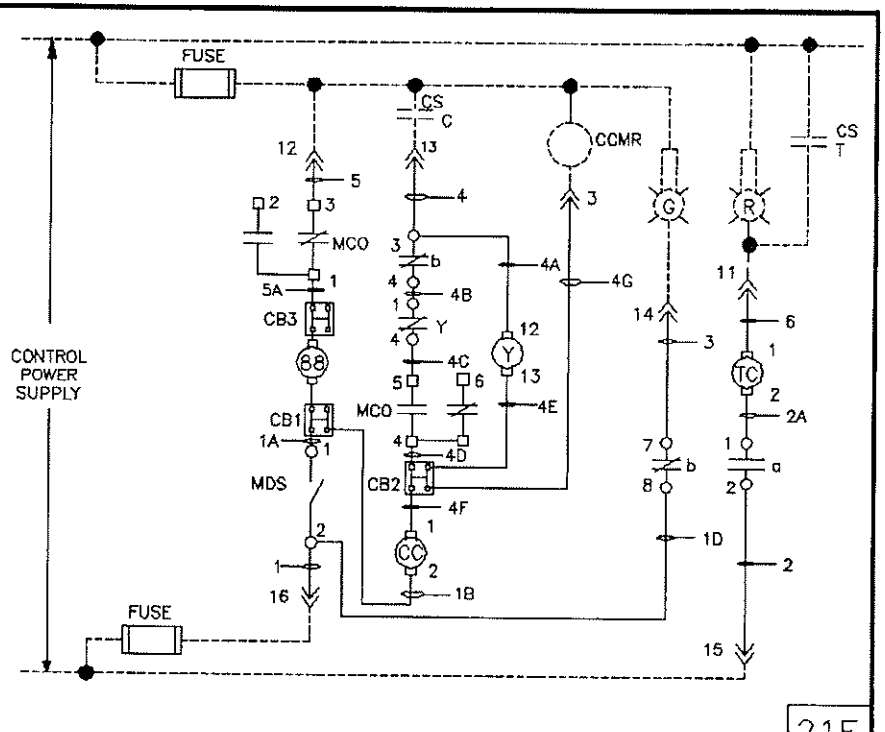
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CLOSE COIL MONITOR (SPECIAL)

WIRE	TERMINALS		SIZE
1	MDS-2	SD-16	18
1A	MDS-1	CB1	18
1B	CC-2	CB1	18
1D	MDS-2	AS-8	18
2	SD-15	AS-2	18
2A	TC-2	AS-1	18
3	SD-14	AS-7	18
4	SD-13	AS-3	18
4A	AS-3	Y-12	18
4B	Y-1	AS-4	18
4C	Y-4	MCO-5	18
4D	MCO-4	CB2	18
4E	Y-13	CB2	18
4F	CC-1	CB2	18
4G	CB-2	SD-3	18
5	SD-12	MCO-3	18
5A	CB3	MCO-1	18
6	SD-11	TC-1	18

HARNESS: 18-398-289-503



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 OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R – RED INDICATION LAMP, BKR. CLOSED
G – GREEN INDICATION LAMP, BKR. OPEN
CS/C – CONTROL SWITCH, CLOSE CONTACT
CS/T – CONTROL SWITCH, TRIP CONTACT
AS – AUXILIARY SWITCH
SD – SECONDARY DISCONNECT

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

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
DO NOT DESTROY, CHANGE OR ADD MARK INO'S W/O APPROVAL OF DESIGN ENGINEERING.

USED ON: 2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1.

01 07-08-93 UPDATED WIRING DWG.
02 08-23-93 AHT ADD SCHEMATIC

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ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP SEM
BULLETIN 07/94

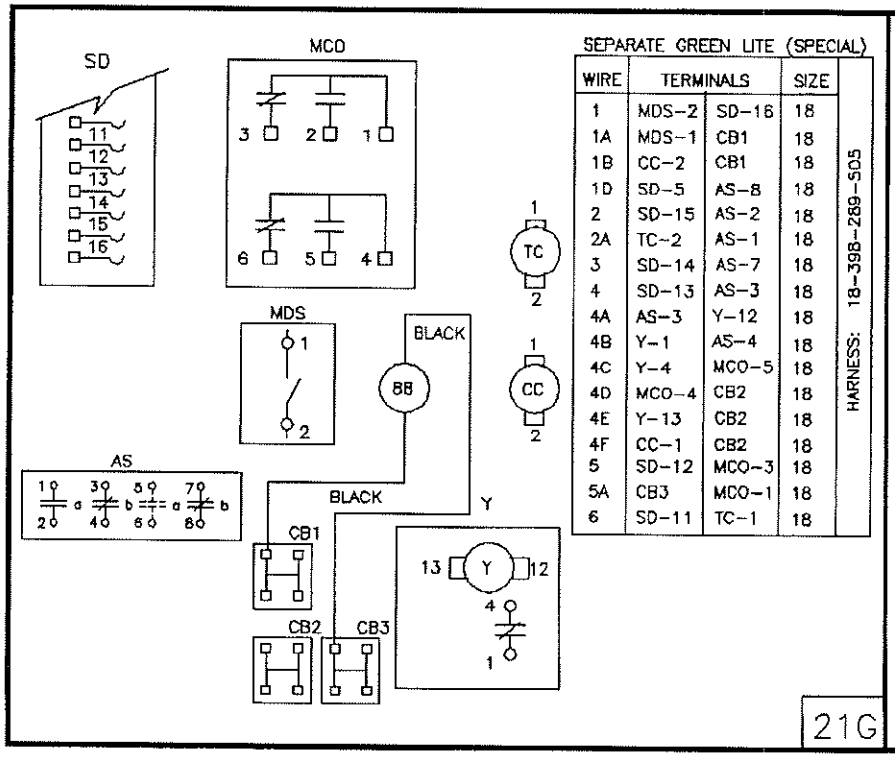
DATA BASE \R\8KR\8M280YW

MATERIAL FIG. [21F]

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

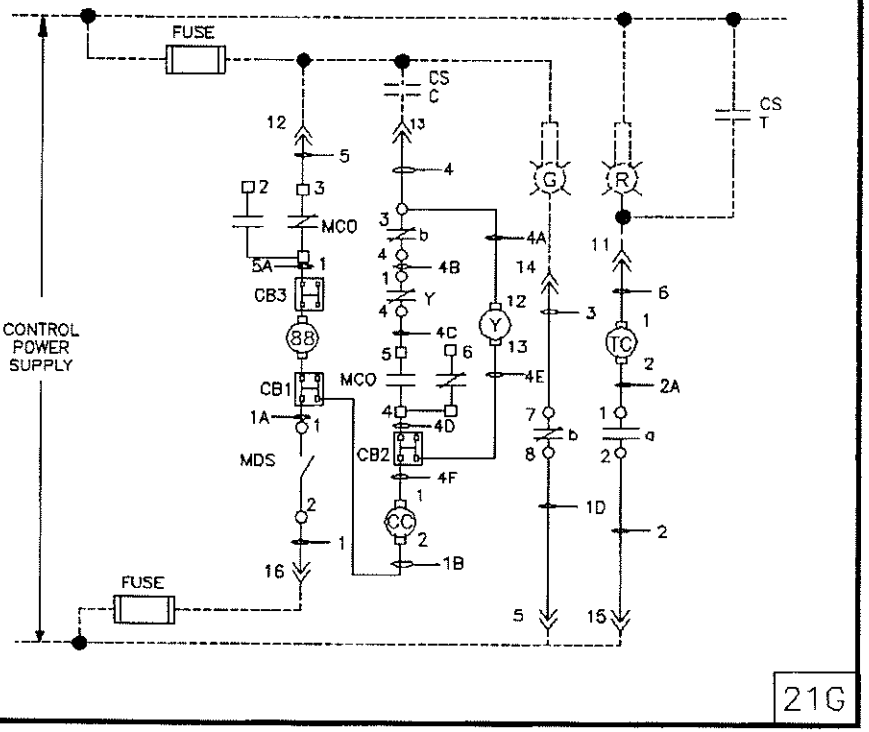
TYPE 22
REP 23
PART NAME RL WIRING DIAGRAM (SPECIAL)
N.M.
SCALE NTS
CHARACTERISTICS
SHEET NO. 21-24

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SEPARATE GREEN LITE (SPECIAL)

WIRE	TERMINALS		SIZE	
1	MDS-2	SD-16	18	HARNESS: 18-398-289-505
1A	MDS-1	CB1	18	
1B	CC-2	CB1	18	
1D	SD-5	AS-8	18	
2	SD-15	AS-2	18	
2A	TC-2	AS-1	18	
3	SD-14	AS-7	18	
4	SD-13	AS-3	18	
4A	AS-3	Y-12	18	
4B	Y-1	AS-4	18	
4C	Y-4	MCO-5	18	
4D	MCO-4	CB2	18	
4E	Y-13	CB2	18	
4F	CC-1	CB2	18	
5	SD-12	MCO-3	18	
5A	CB3	MCO-1	18	
6	SD-11	TC-1	18	



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 OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R – RED INDICATION LAMP, BKR. CLOSED
G – GREEN INDICATION LAMP, BKR. OPEN
CS/C – CONTROL SWITCH, CLOSE CONTACT
CS/T – CONTROL SWITCH, TRIP CONTACT
AS – AUXILIARY SWITCH
SD – SECONDARY DISCONNECT

NOTES:
1. FIGURES 5A, 5B, 5C, 5D, 5E, 5F, 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
DO NOT DESTROY, CHANGE OR ADD MARK NO'S W/O APPROVAL OF DESIGN ENGINEERING.

* CAD GENERATED, DO NOT CHANGE MANUALLY.

USED ON: 2R

SEE SHEET #1.

01	07-06-93	UPDATED WIRING DIAG. AND SCHEMATIC
02	08-23-93	ART

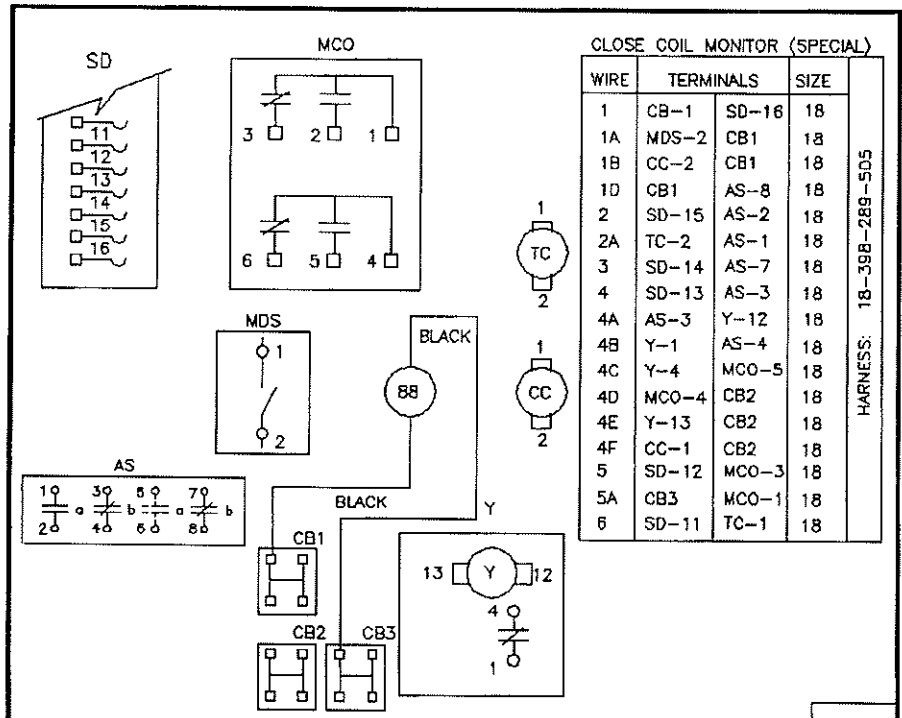
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1-PLACE DECIMAL ± .06
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3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94
DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [21G]
N-C 2: C
CURRENT DATE 3-8: 07-30-94
PART NUMBER 9-18: 18-748-279-400
ISS 20-21: 03

TYPE 22 | REP 23 | PART NAME 24-43: RL WIRING DIAGRAM (SPECIAL) | N.M. 44-48 | 49-53 | SCALE: NTS | CHARACTERISTICS | SHEET NO.: 22-24

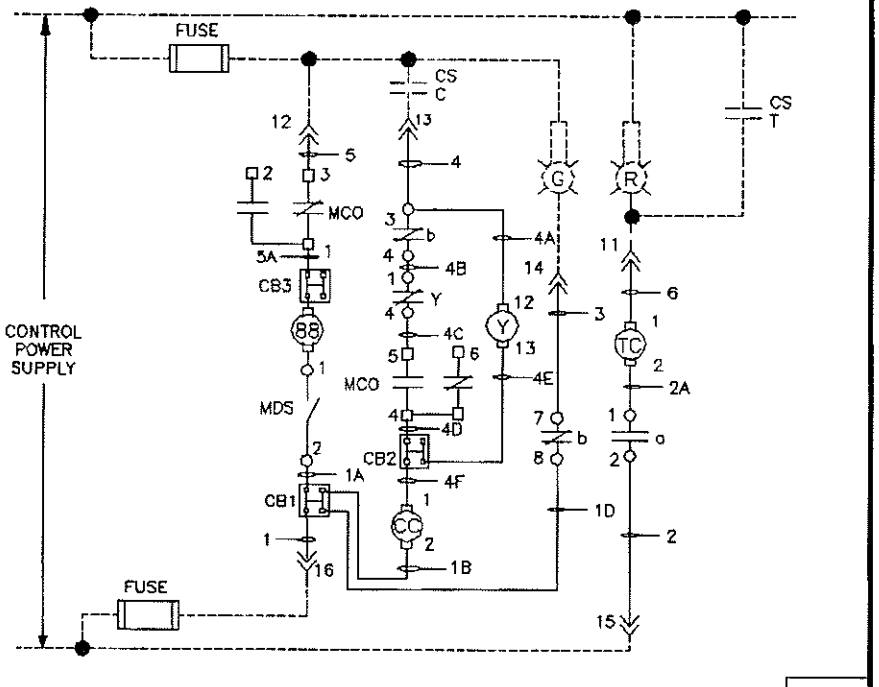
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CLOSE COIL MONITOR (SPECIAL)

WIRE	TERMINALS		SIZE
1	CB-1	SD-16	18
1A	MDS-2	CB1	18
1B	CC-2	CB1	18
1D	CB1	AS-8	18
2	SD-15	AS-2	18
2A	TC-2	AS-1	18
3	SD-14	AS-7	18
4	SD-13	AS-3	18
4A	AS-3	Y-12	18
4B	Y-1	AS-4	18
4C	Y-4	MCO-5	18
4D	MCO-4	CB2	18
4E	Y-13	CB2	18
4F	CC-1	CB2	18
5	SD-12	MCO-3	18
5A	CB3	MCO-1	18
6	SD-11	TC-1	18

HARNESS: 18-398-289-505



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 OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R – RED INDICATION LAMP, BKR. CLOSED
G – GREEN INDICATION LAMP, BKR. OPEN
CS/C – CONTROL SWITCH, CLOSE CONTACT
CS/T – CONTROL SWITCH, TRIP 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

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

USED ON: 2R

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1.

02	08-23-93	AHT
01	07-06-93	UPDATED WIRING DIAG. AND SCHEMATIC

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2-PLACE DECIMAL ± .03
3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE

SIMILAR TO

DR AHT
CH SEM
APP
BULLETIN 07 / 94

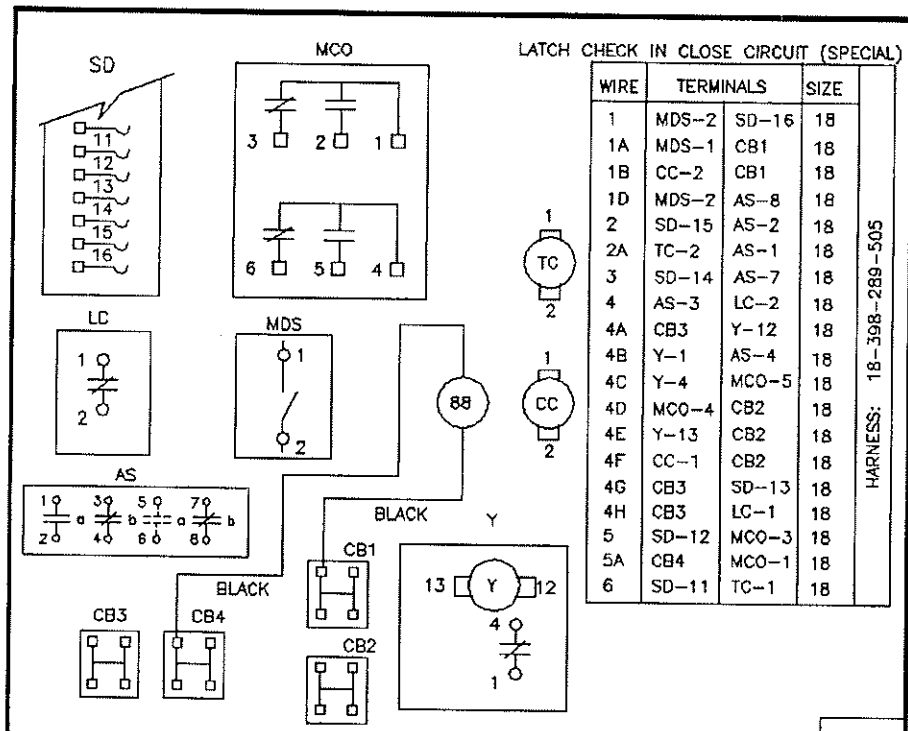
DATA BASE R\BKR\8M280YW

MATERIAL FIG. [21H]

N-C 2: C
CURRENT DATE 3-8: 07-30-94
PART NUMBER 9-18: 18-748-279-400
ISS 20-21: 03

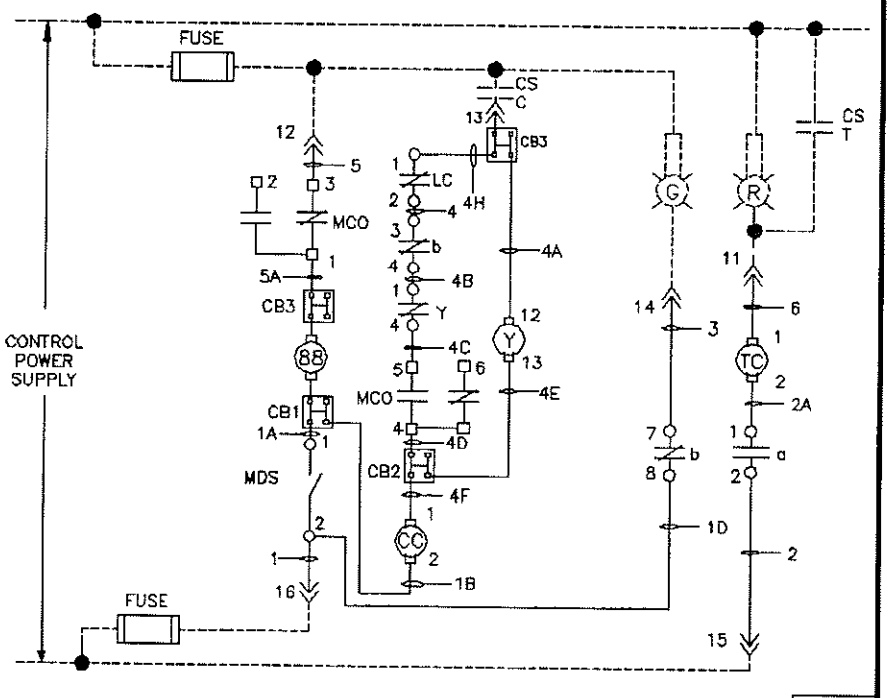
TYPE 22
REP 23
PART NAME 24-43: RL WIRING DIAGRAM (SPECIAL)
N.M. 44-48
48-53
SCALE: NTS
CHARACTERISTICS
SHEET NO.: 23-24

O:\RLTEMP\21HRLBKR



LATCH CHECK IN CLOSE CIRCUIT (SPECIAL)

WIRE	TERMINALS		SIZE	HARNESS: 18-398-289-505
1	MDS-2	SD-16	18	
1A	MDS-1	CB1	18	
1B	CC-2	CB1	18	
1D	MDS-2	AS-8	18	
2	SD-15	AS-2	18	
2A	TC-2	AS-1	18	
3	SD-14	AS-7	18	
4	AS-3	LC-2	18	
4A	CB3	Y-12	18	
4B	Y-1	AS-4	18	
4C	Y-4	MCO-5	18	
4D	MCO-4	CB2	18	
4E	Y-13	CB2	18	
4F	CC-1	CB2	18	
4G	CB3	SD-13	18	
4H	CB3	LC-1	18	
5	SD-12	MCO-3	18	
5A	CB4	MCO-1	18	
6	SD-11	TC-1	18	



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 OPEN WHEN BREAKER IS OPEN
b – AUXILIARY SWITCH CONTACT CLOSED WHEN BREAKER IS OPEN
R – RED INDICATION LAMP, BKR. CLOSED
G – GREEN INDICATION LAMP, BKR. OPEN
CS/C – CONTROL SWITCH, CLOSE CONTACT
CS/T – CONTROL SWITCH, TRIP 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

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

USED ON 2R1

* CAD GENERATED, DO NOT CHANGE MANUALLY.

SEE SHEET #1.

02 05-23-93 AHT UPDATED WIRING DIAG. AND SCHEMATIC
01 07-06-93 UPDATED WIRING DIAG.

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3-PLACE DECIMAL ± .01
ANGULAR
MACHINED SURFACE TEXTURE
SIMILAR TO
DR AHT
CH SEM
APP
BULLETIN 07/94

DATA BASE \R\BKR\8M280YW

MATERIAL FIG. [211]
N.C. 2 C
CURRENT DATE 3-8 07-30-94
PART NUMBER 8-18 18-748-279-400
ISS 20-21 03

TYPE 22
REP 23
PART NAME 24-43 RL WIRING DIAGRAM (SPECIAL)
N.N. 44-48
48-53
SCALE NTS
CHARACTERISTICS
SHEET NO. 24-24

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