

EDML106

LIST OF MATERIAL FOR FIELD WEAKENING SYSTEM

Item	Description	Drg./spec no.	Qpc	Remark
1.	Contacto box with GP relay	EM72061	1	
2.	Contacto box without GP relay	EM72061	1	
3.	Resistor box	EM72062	2	

Note:

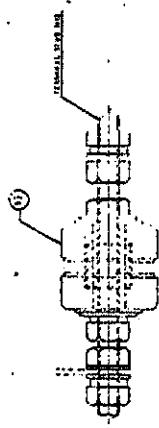
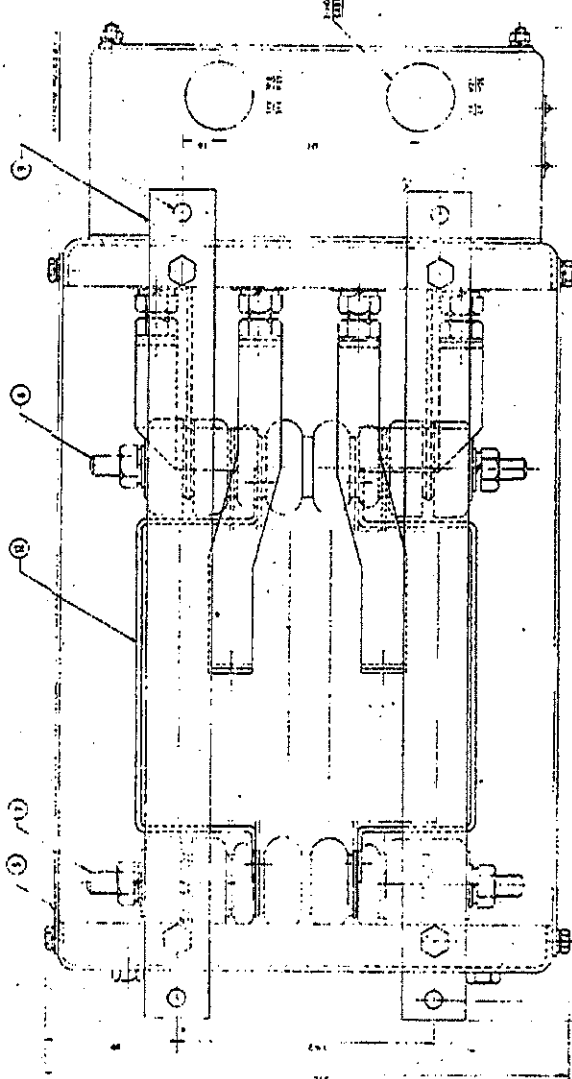
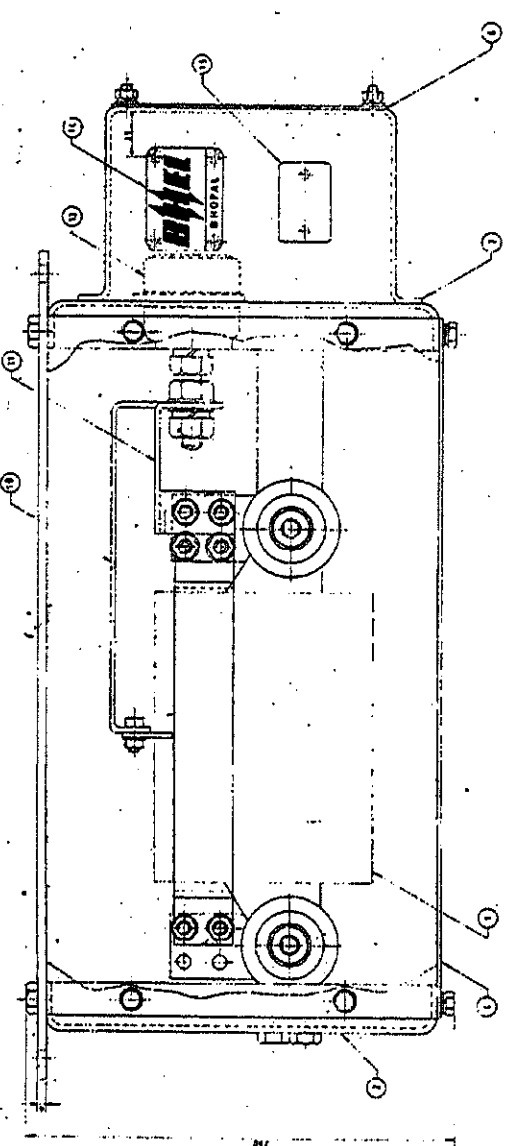
- 1- Firm shall take prior approval of OGA drawing of contactor box and resistor box from CEE/RCF before manufacturing of the system.
- 2- Firm shall maintained overall dimensions, mounting dimensions and hole & location of cable entry in OGA drawings confirming to RCF drawing EM72061 and EM72062.
- 3- System shall be functionally equivalent to BHEL drawing no. 15730030044, Rev-02 (for contactor box), 05750030020, Rev-00 and schematic diagram shall be as per RDSO drawing no. RDSO/PE/SK/EMU/0023-2002, Rev-0.
- 4- Prototype inspection of the field weakening system shall be cleared by RDSO.
- 5- Enclosure:

- I. EM72061
- II. EM72062
- III. RDSO/PE/SK/EMU/0023-2002, Rev-0.
- IV. 15730030044, Rev-02
- V. 05750030020, Rev-00

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Document no.	Rev.	Date	JE/CAD	SEE/D	Dy.CEE/D&D	Page

SEE DRAWING FOR WIRE

FOR WIRE IDENTIFICATION



TERMINAL	RESISTANCE	WATTAGE
A	100 OHMS	1/2 WATT
B	100 OHMS	1/2 WATT
C	100 OHMS	1/2 WATT
D	100 OHMS	1/2 WATT
E	100 OHMS	1/2 WATT
F	100 OHMS	1/2 WATT
G	100 OHMS	1/2 WATT
H	100 OHMS	1/2 WATT
I	100 OHMS	1/2 WATT
J	100 OHMS	1/2 WATT
K	100 OHMS	1/2 WATT
L	100 OHMS	1/2 WATT
M	100 OHMS	1/2 WATT
N	100 OHMS	1/2 WATT
O	100 OHMS	1/2 WATT
P	100 OHMS	1/2 WATT
Q	100 OHMS	1/2 WATT
R	100 OHMS	1/2 WATT
S	100 OHMS	1/2 WATT
T	100 OHMS	1/2 WATT
U	100 OHMS	1/2 WATT
V	100 OHMS	1/2 WATT
W	100 OHMS	1/2 WATT
X	100 OHMS	1/2 WATT
Y	100 OHMS	1/2 WATT
Z	100 OHMS	1/2 WATT

RESISTANCE VALUES IN OHMS
 TOLERANCE OF RESISTORS MUST BE 1% (SEE SPEC. FOR RES. - 100 OHMS)

ITEM NO.	DESCRIPTION	QTY.	UNIT	REVISION
1	100 OHMS RESISTOR	1	RESISTOR	
2	100 OHMS RESISTOR	1	RESISTOR	
3	100 OHMS RESISTOR	1	RESISTOR	
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100	100 OHMS RESISTOR	1	RESISTOR	

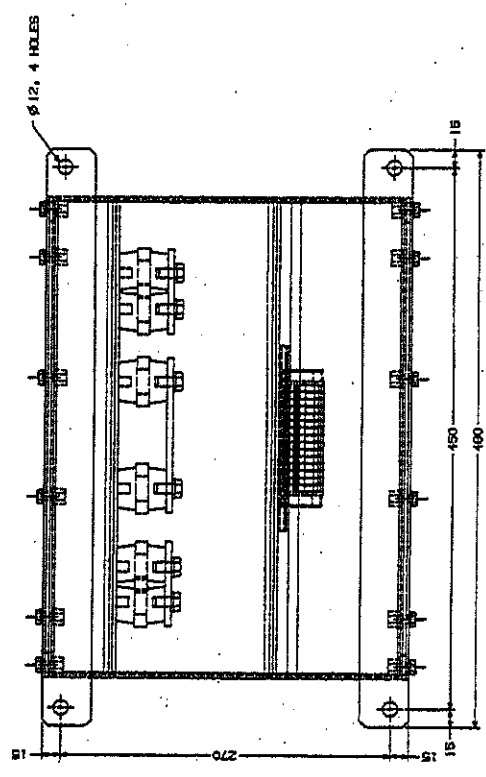
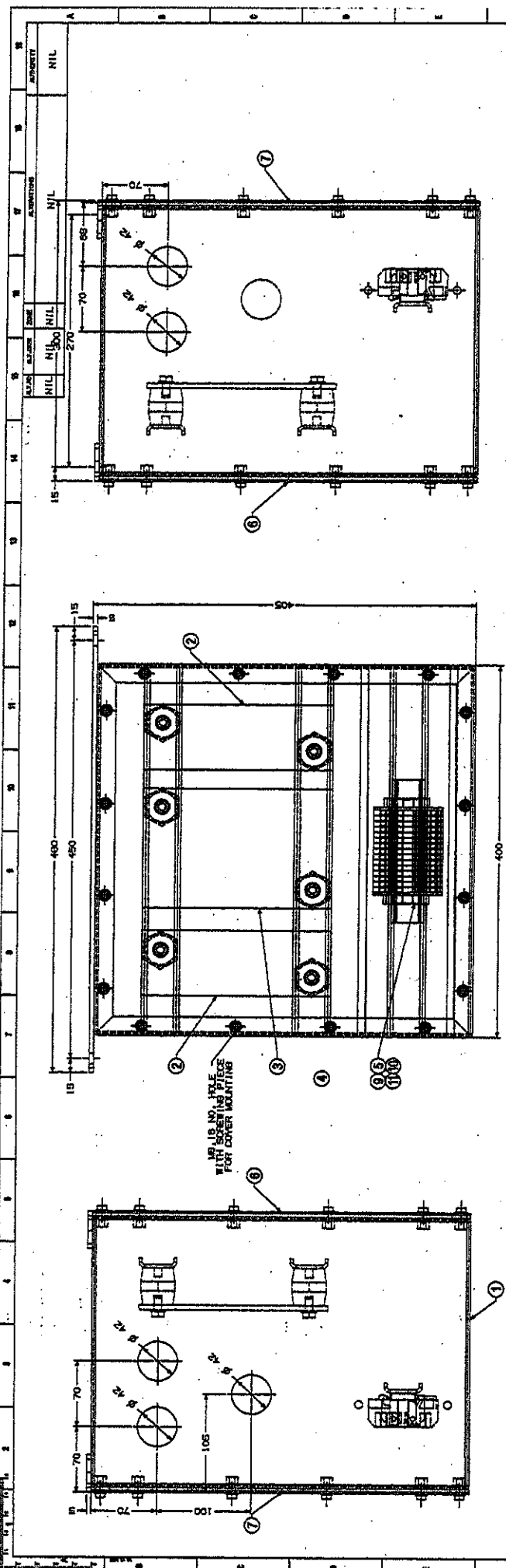
REVISIONS

NO.	DATE	DESCRIPTION
1		
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APPROVED FOR RELEASE BY NSA

DATE 08-12-2011

REF ID: A66302

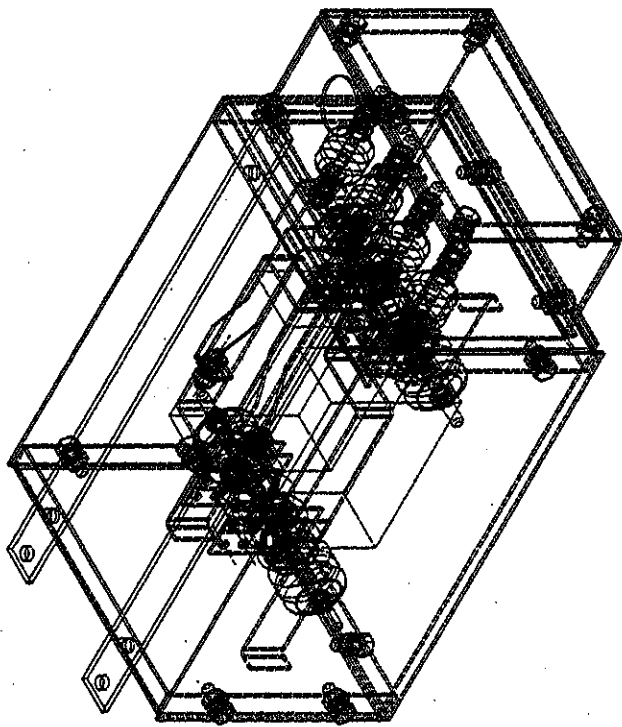
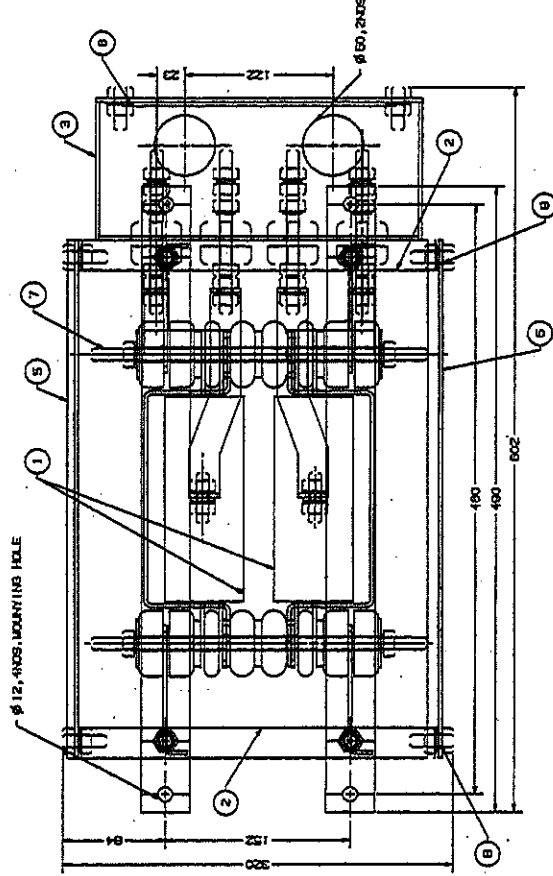
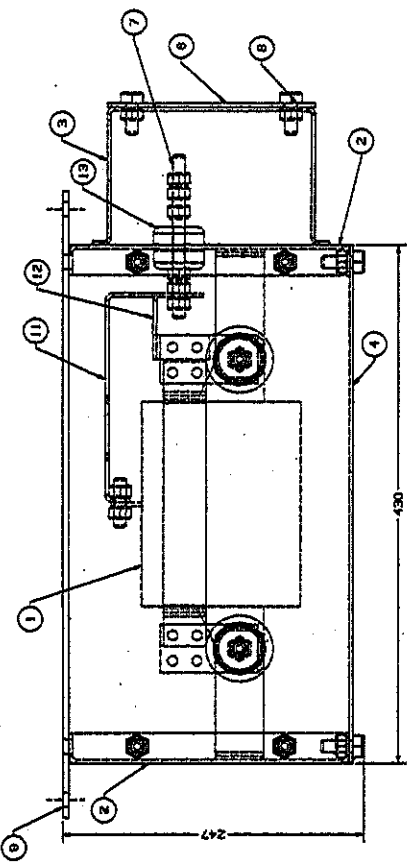


3- ITEMS 5 & 6 TO BE SCREW WITH 3 THICK NEOPREN RUBBER PACKING
 #22 ARE TO BE ALL THE ELECTROMAGNETIC CONTACTOR 200A 10, 320A CONTACT 80V 2.2 TO 3.2 KG CONTACT PRESSURE.
 NOTE: 1- ALL DIMENSIONS ARE IN MM.
 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.
 FOR UNTOLOGRANED DIMENSIONS REFER M06000

ITEM	DESCRIPTION	QTY	UNIT	REMARKS
1	BOX FRAME	1	NIL	IS 10729-24
2	DOOR	1	NIL	IS 10729-24
3	DOOR LOCK	1	NIL	IS 10729-24
4	DOOR LATCH	1	NIL	IS 10729-24
5	TERMINAL BLOCK	1	NIL	IS 10729-24
6	TERMINAL BLOCK	1	NIL	IS 10729-24
7	TERMINAL BLOCK	1	NIL	IS 10729-24
8	TERMINAL BLOCK	1	NIL	IS 10729-24
9	TERMINAL BLOCK	1	NIL	IS 10729-24
10	TERMINAL BLOCK	1	NIL	IS 10729-24
11	TERMINAL BLOCK	1	NIL	IS 10729-24

PL. NO.	REV.	DATE	BY	CHKD.	APPD.
1					
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INDIAN RAILWAYS STANDARD
 GENERAL ARRANGEMENT OF CONTACTOR BOX FOR FIELD WEAK ARROT. FOR MEANING COACH
 PL. NO. 1 NIL
 30/05/2007

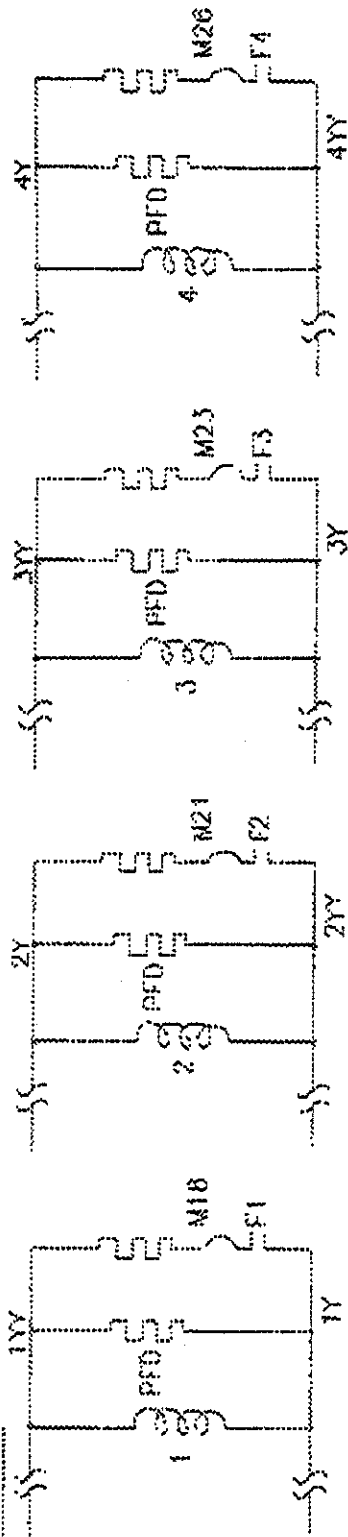


13	ISRELAY ASSEMBLY	2	NIL	NIL	NIL
12	SHOULDER LINK	2	NIL	COOPER	NIL
11	FRONT CONNECTION	2	NIL	NIL	NIL
10	END TOP CONNECTION	2	NIL	NIL	NIL
9	MOUNTING PLATE	2	NIL	ISI MTP-94	NIL
8	SPRING BOLT	20	NIL	FE-110	NIL
7	SPRING BOLT	8	NIL	NIL	NIL
6	REMOVAL COVER	1	NIL	ISI MTP-94	NIL
5	SIDE COVER	2	NIL	ISI MTP-94	NIL
4	FRONT COVER	1	NIL	ISI MTP-94	NIL
3	SHT FRAME	2	NIL	ISI MTP-94	NIL
2	END FRAME	1	NIL	ISI MTP-94	NIL
1	RESISTOR	2	TYPE B10G	ISI	NIL

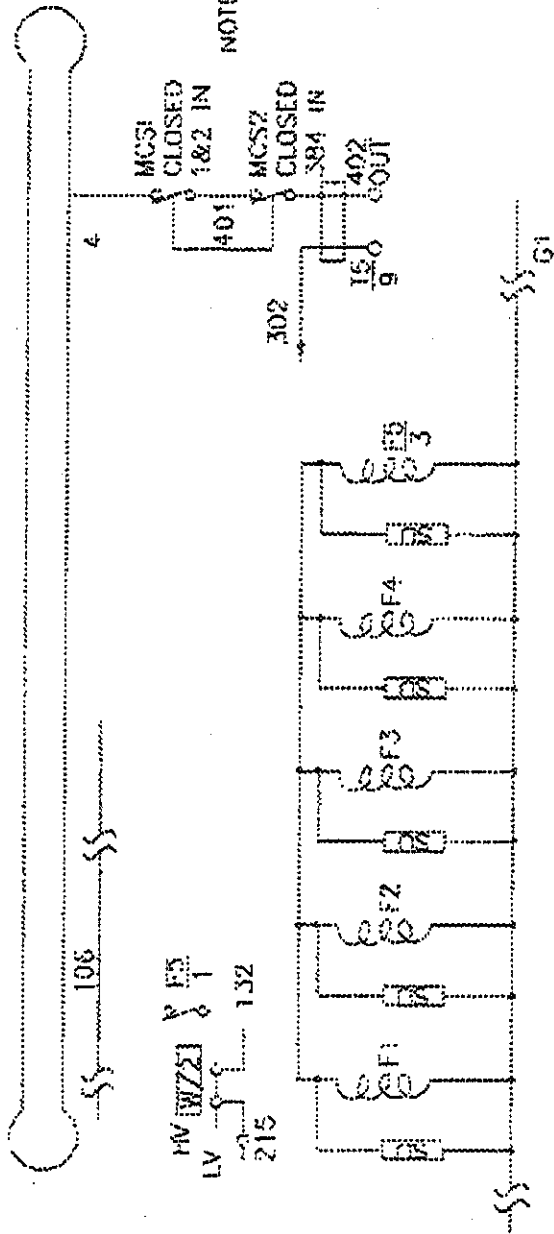
CHECK LISTED FROM DRAWING & INTERNAL LIST
 FILE XL (X) S.No. - 01/06/2007
 GENERAL ARRANGEMENT OF
 RESISTOR BOX FOR WEAK FIELD ARRANGEMENT
 FOR M&M/D&C
 INDIAN RAILWAYS STANDARD
 PL NO. NIL
 ORG. NO. IEM72062
 DATE OF FIRST ISSUE 01/06/2007

2- ITEM-1 RESISTOR SHALL BE TYPE B10G, CURRENT, 18VA, 027 ohm WITH ELEMENT RESISTANCE 0.100 ohm.
 NOTE: 1- ALL DIMENSIONS ARE IN MM.
 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.
 FOR UNTOLERANCED DIMENSIONS REFER M&M/D&C

POWER SCHEME



CONTROL SCHEME



NOTE:-- WIRE No. 4 IS ENERGISED THROUGH MASTER CONTROLLER WHEN MAIN HANDLE IS MOVE TO WEAK FIELD POSITION 15, 18, 12 AND F1-5 CONTACTOR ARE CLOSED IN THIS POSITION

REF:-- NIL

SCALE:-- NIS.

APPROVED:-- 50/

**PROPOSED SCHEMATIC FOR
INCORPORATION OF WEAK FIELD
IN BG AC MEMU**

RDSO/PE/SK/EMU/0023-2002 (REV-0)

DT	STATUS/ALT.	REF.	DESCRIPTION	APPD. BY	DATE