R.C.F.

EDML106

LIST OF MATERIAL FOR FIELD WEAKENING SYSTEM

Item	Description	Drg./spec no.	Qpc	Remark
1.	Contactor box with GP relay	EM72061	1	
2.	Contactor 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.

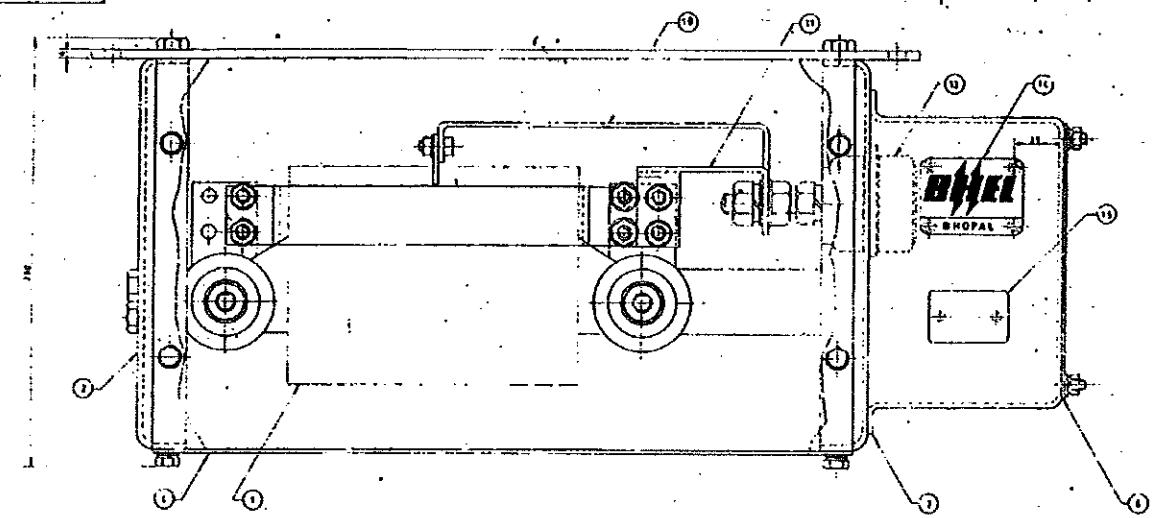
3- System shall be functionally equivalent to BHEL drawing no. 15730030044, Rev-02 (for contactor box), 05750030020, Rev-00 and schematic diagram shall be as per RDSO drawing no. RDSO/PE/SK/EMU/0023-2002, Rev-0.

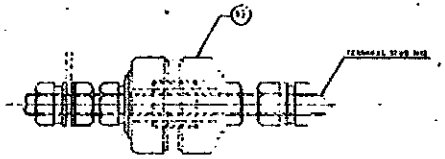
4- Prototype inspection of the field weakening system shall be cleared by RDSO.

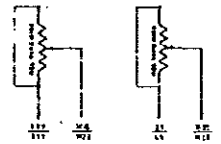
5- Enclosure:

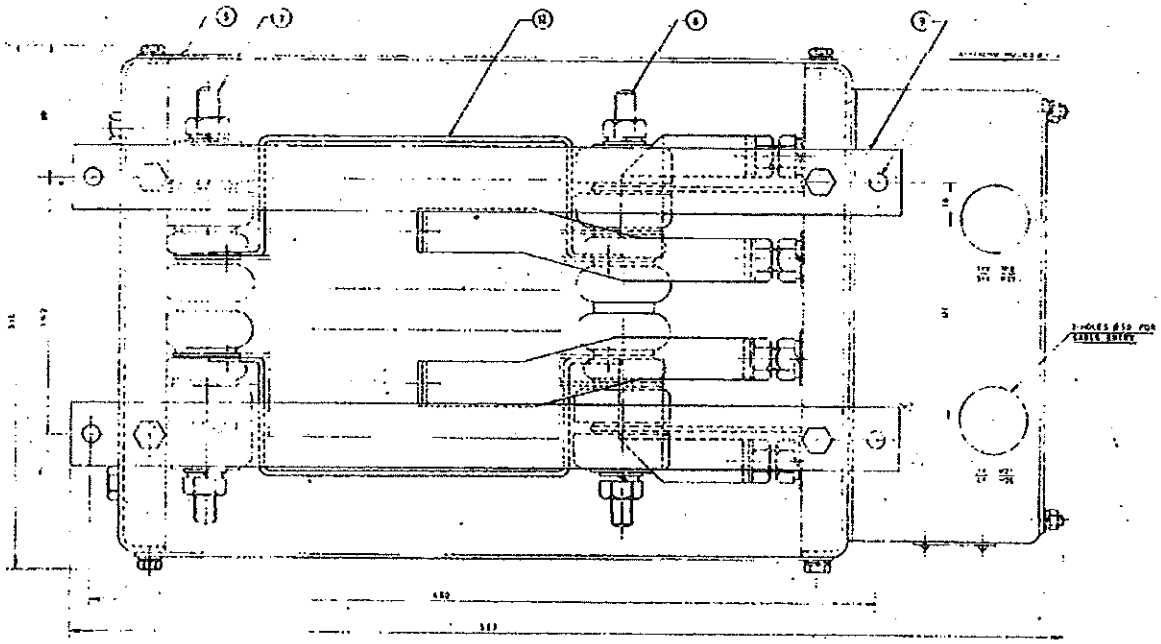
I. EM72061
II. EM72062
III. RDSO/PE/SK/EMU/0023-2002, Rev-0.
IV. 15730030044, Rev-02
V. 05750030020, Rev-00

R.C.F.



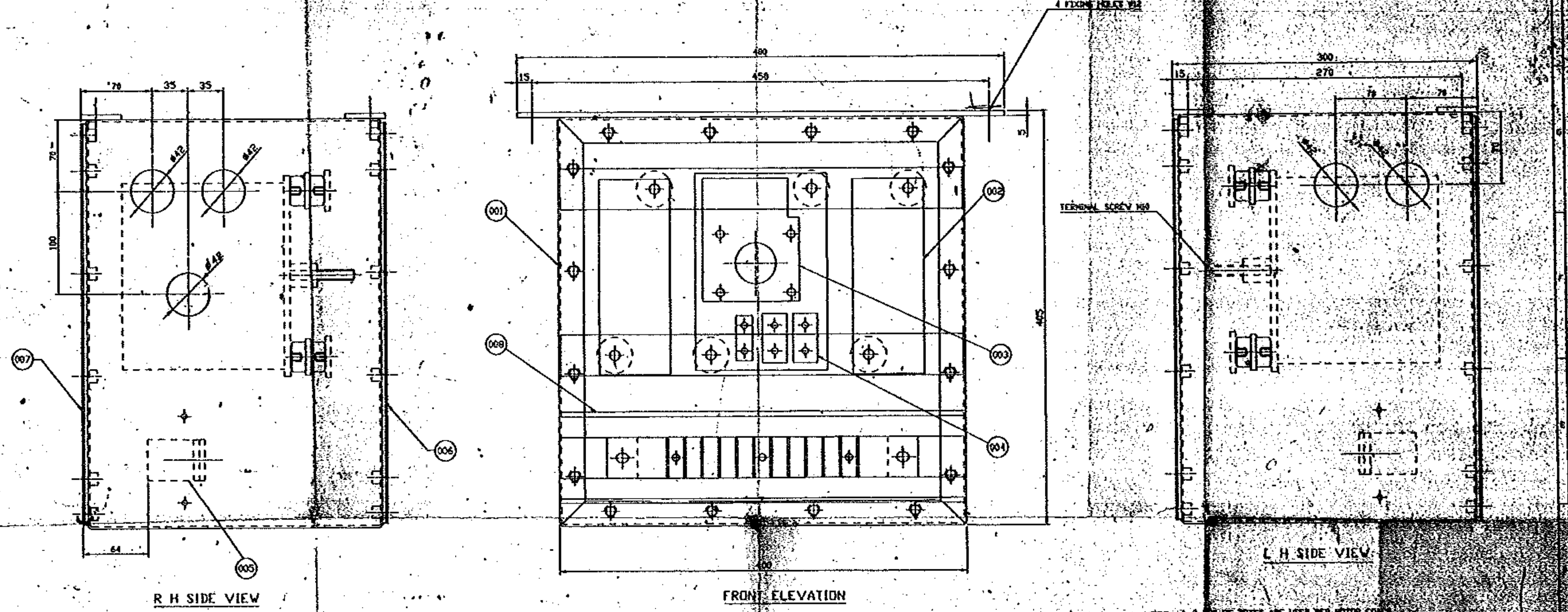






GENERAL ARRANGEMENT OF
REVISION BOX

FIRST ANGLE PROJECTION



NOTE:- 1. 2 NOS OF BOXES ARE USED PER MOTOR COACH.
E M RELAY (TAN) SHALL BE FITTED ONLY IN ONE OF THESE TWO BOXES.

VAR 00	REMARKS	VAR NO	ITEM NO	DESCRIPTION	QTY	DRAWING NO.
002			008	WIRE SUPPORT		
001			007	FRONT COVER		
001			006	BACK COVER		
001			005	TERMINAL BLOCK 12 WAY		
003			004	SURGE SUPPRESSION UNIT		
001			003	E M RELAY		
002			002	CONTACTOR 20AMPS 75V		
001	PAINTED		001	BOX FRAME		

ADDITIONAL INFORMATION

STATUS OF DRAWING. M

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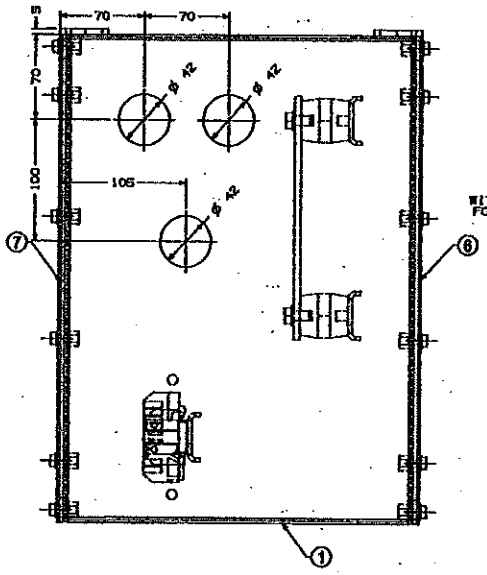
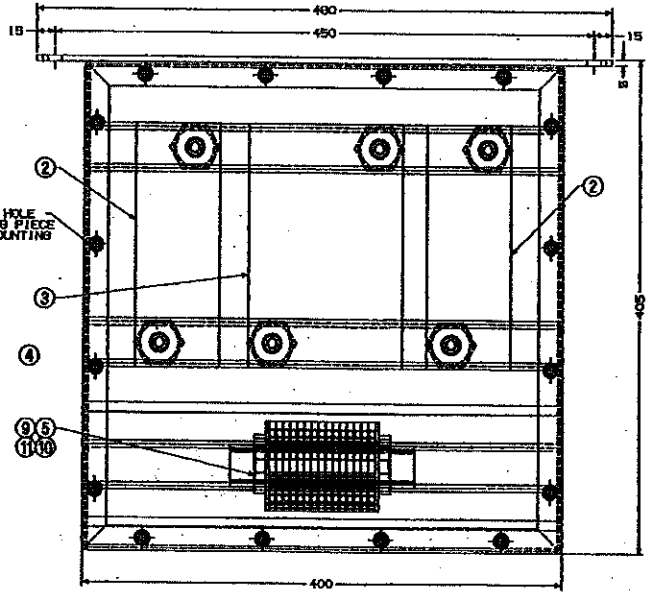
OFFICE COPY 1

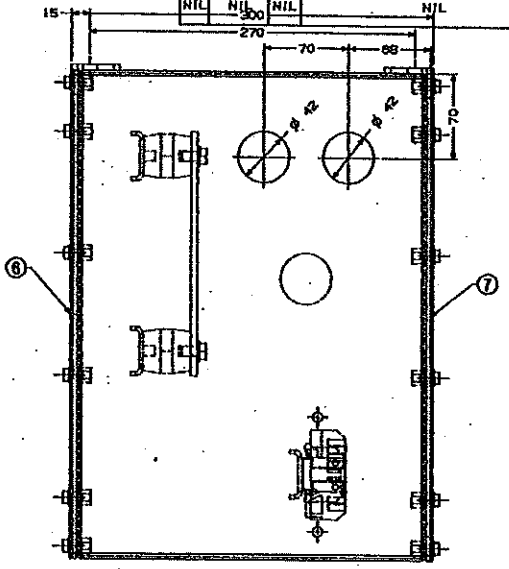
COMPUTER FILE NO. CEXT2068

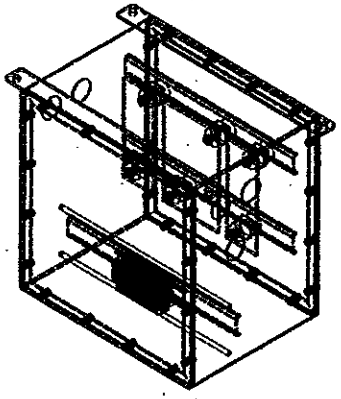
FIXING BREAKABLE ENTRY HOLE DIA MODIFIED

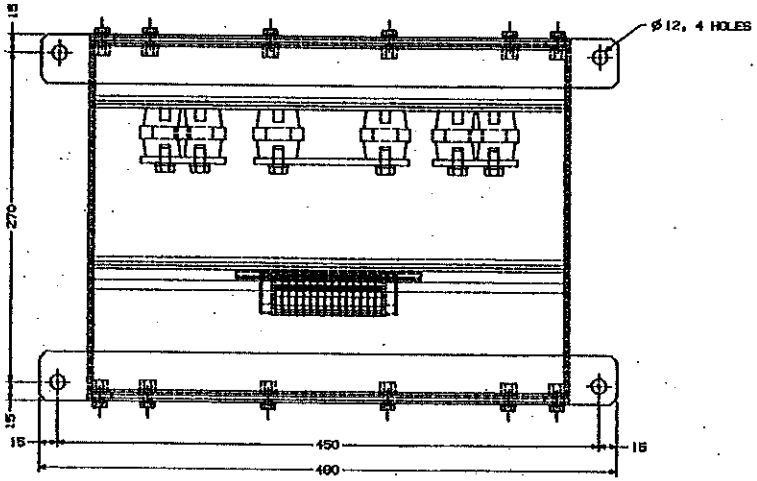
BOX MODIFIED, CABLE ENTRY HOLES











11	END CLAMP	2	CAT. NO.	NIL	OF M/S WAGO
10	END PLATE	2	CAT. NO.	NIL	OF M/S WAGO
9	DIN RAIL, (L=175)	1	CAT. NO.	NIL	OF M/S WAGO
8	TIE ROD Ø 8X285	2	NIL	IS: 2062-92	NIL
7	FRONT COVER	1	NIL	ISI 1079-94 FE-410	NIL
6	BACK COVER	1	NIL	ISI 1079-94 FE-410	NIL
5	TERMINAL BLOCK	15	CAT.NO. 282-210	NIL	OF M/S WAGO
4	SURGE SUPPRESSION UNIT	3	NIL	NIL	NIL
3	GP RELAY (CONTACTOR 10A,110V DC)	1	NIL	NIL	NIL
2	ELECTRO-MAGNETIC CONTACTOR 200A,750V	2	NIL	NIL	*
1	BOX FRAME	1	NIL	ISI 1079-94 FE-410	NIL

ITEM	DESCRIPTION & DIMENSIONS	SPARES	DETAIL DRG	MATL & SPEC.	REMARKS
GROUP	ELECTRICAL			SUPERSEDES: NIL	
FILE	D:\home\wol\mem-dmc\em72061.prt				

3- ITEM-5 & 8 TO BE SCREW WITH 3 THICK NEOPREN RUBBER PACKING

2 ITEM-2 SHALL BE ELECTRO-MAGNETIC CONTACTOR 200A,750V,10.32MM CONTACT GAP,2.3 TO 3.2 KG CONTAC PRESSURE, ONE NO.BLOW OUT COIL TURN & OPERATING COIL RESISTANCE 48Ω OHM WITH 110V DC CONTROL VOLTAGE.

NOTE: 1- ALL DIMENSIONS ARE IN MM.

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

DATE OF FIRST ISSUE 30/05/2007

GENERAL ARRANGEMENT OF CONTACTOR BOX FOR FIELD WEAK ARRGT. FOR MEMU/DMC COACH

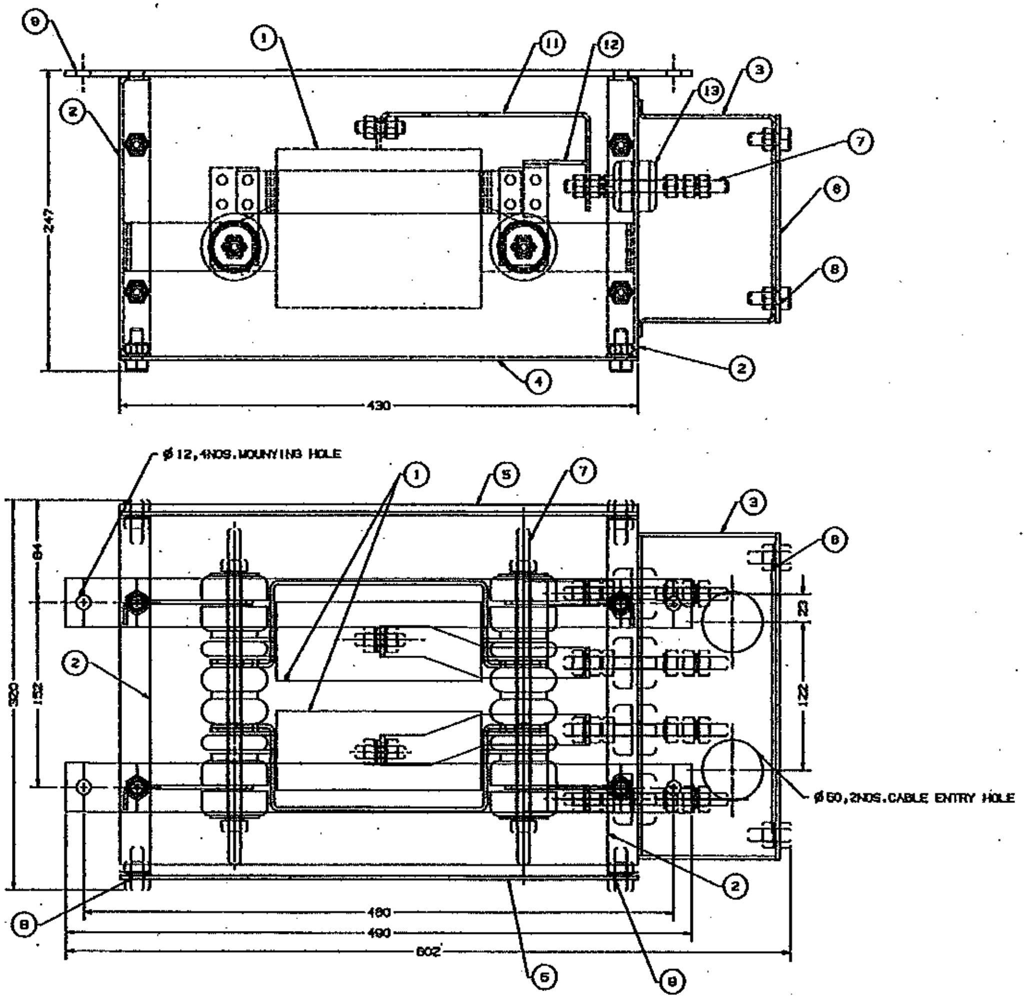
RAIL COACH FACTORY, KAPURTHALA

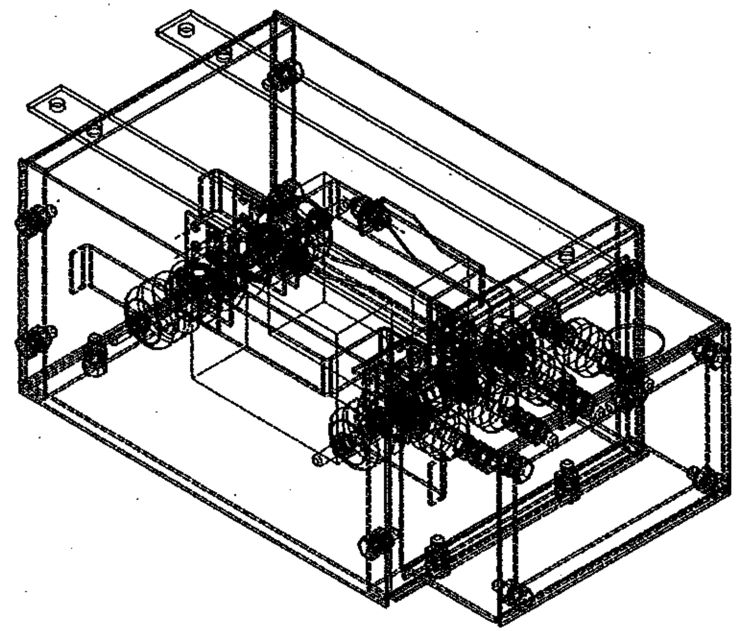
INDIAN RAILWAYS STANDARD

PL NO. NIL

DRG.NO. EM72061

ALT.NO	ALT.ZONE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL





ITEM	DESCRIPTION & DIMENSIONS	QTY	DETAIL DRG	MATL. & SPEC.	REMARKS
13	INSULATOR ASSEMBLY	12	NIL	NIL	NIL
12	SHORTING LINK	2	NIL	COPPER	NIL
11	FRONT CONNECTION	2	NIL	NIL	NIL
10	MID TAP CONNECTION	2	NIL	NIL	NIL
9	MOUNTING PLATE	2	NIL	IS: 1079-94 FE-410	NIL
8	GRID BOLT	20	NIL	NIL	NIL
7	GRID BOLT	6	NIL	NIL	NIL
6	TERMINAL COVER	1	NIL	IS: 1079-94 FE-410	NIL
5	SIDE COVER	2	NIL	IS: 1079-94 FE-410	NIL
4	BOTTOM COVER	1	NIL	IS: 1079-94 FE-410	NIL
3	END FRAME	2	NIL	IS: 1079-94 FE-410	NIL
2	END FRAME	1	NIL	IS: 1079-94 FE-410	NIL
1	RESISTOR	2	TYPE-6106	NIL	NIL

GROUP: ELECTRICAL

FILE: X:_pro|\memu-dmc\08-09\EM7282.prt

GENERAL ARRANGEMENT OF RESISTOR BOX FOR WEAK FIELD ARRANGEMNT FOR MEMU/DMC

RAIL COACH FACTORY, KAPURTHALA

INDIAN RAILWAYS STANDARD

PL NO. NIL

DRG.NO. EM72062

NOTE: 1- ALL DIMENSIONS ARE IN MM.

2- ITEM-1 RESISTOR SHALL BE TYPE 6106,CURRENT, 180A,.027 ohm WITH ELEMENT RESISTANCE 0.108 ohm.

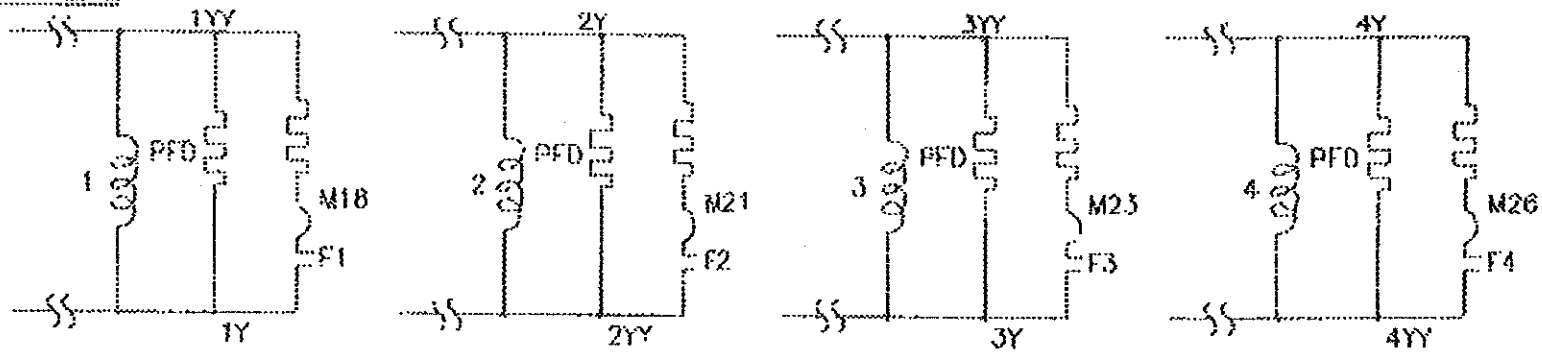
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

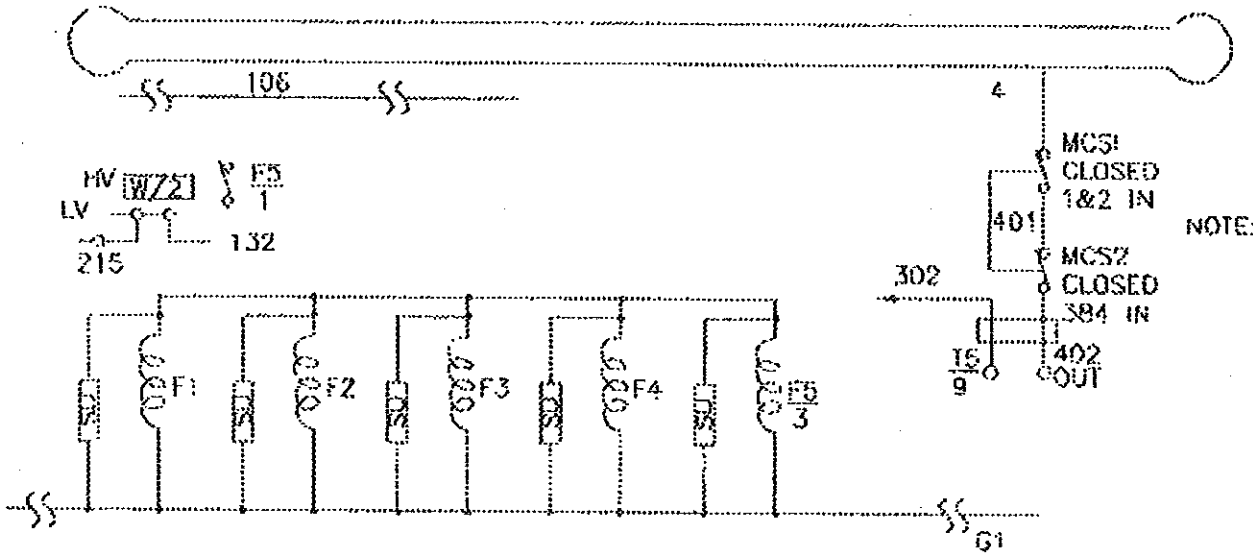
DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

DATE OF FIRST ISSUE 01/06/2007

POWER SCHEME



CONTROL SCHEME



NOTE:- WIRE No. 4 IS ENERGISED THROUGH MASTER CONTROLLER WHEN MAIN HANDLE IS MOVE TO WEAK FILED POSITION T5, T8, T2 AND F1-5 CONTACTOR ARE CLOSED IN THIS POSITION

REF:- NIL	SCALE:- NTS.	APPROVED:- Sd/

PROPOSED SCHEMATIC FOR INCORPORATION OF WEAK FIELD IN BG AC MEMU

STATUS	ALT.	REF.	DESCRIPTION	APPD.BY	DATE
DT					
D					
C					

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