RAIL COACH FACTORY, KAPURTHALA

CAI N O.: ED/CAI/028 Dated: 27.12.2023

COACH ALTERATION INSTRUCTION SHEET FOR MODIFICATIONS IN EXISTING LHB NON AC CHAIR CAR TYPE COACHES

Rail Coach Factory, Kapurthala

CAI No.: ED/CAI/028 Dated: 27.12.2023

This Coach Alteration Instruction Sheet has been issued for modification in existing **LHB Non AC Chair Car type coaches** wherein following steps are to be taken for modifications in the coach:

A). LHB CHAIR CAR TYPE COACH:

Step-1: Removal/Dismantle of Electrical accessories from Coach:

1. Roof Arrangement :

a) Removal/Dismantle of Cage clamp Terminals:

i. Connections of all the circuits i.e. Fans and Night lights circuit on the Cage clamp terminals provided inside coach/Doorway area of the coach shall be disconnected.

ii. The Cage clamp terminals provided for interconnections in in passenger area inside coach/Doorway area shall be removed.

b). Removal/Dismantle of Accident Emergency Light (AEL).

i. Disconnect all the accident emergency light (AEL) provided in corridor and doorway area on both ends.

ii. Remove all the AELs by removing the hardwares.

c). Removal/Dismantle of AC Fans :

i. Disconnect the AC fans connections provided in passenger area inside coach.

ii. All the AC fans shall be removed from the ceiling arrangement of the coach by removing the hardware's.

2. Side wall arrangement:

a). Removal /Dismantle of Switch Plates :

i. Disconnect all the circuits i.e. Fans, Mobile charging sockets etc. on the switch plate assembly in passenger area inside coach.

ii. The switch plate assembly provided in passenger area shall be removed by removing the hardwares.

3. Under frame Arrangement :

a). Removal/Dismantle of 60kVA , 750V/415V and 3 kVA 415/190V Transformer:

i. Disconnect the Input & Output connections from the 60Kva, 750V/415V and 3kva 415/190V Transformer provided in the underframe.

ii. Transformers shall be removed after removing of the hardware's provided for mounting of the **60kVA , 750V/415V and 3 kVA 415/190V Transformers.**

iii. Harness provided for 3 kVA 415/190V Transformer shall be removed by disconnecting from transformer as well as from switch board cabinet.

Step-2: Mounting of Electrical Accessories in Coach:

1. Roof Arrangement :

a). Fixing of Cage Clamp Terminals with Glass fuses:

i. Cage clamp terminals with glass fuses as per drawing **SKED 933** shall be mounted on the existing bracket in each cabin on both side of the cabin area with the aid of suitable hardwares .

ii. Cage clamp terminals with glass fuses as per drawing **SKED 934** shall be mounted on the existing brackets in each doorway area on both side with the aid of suitable hardwares

iii. Connect all the LIGHTS, FANS, NIGHT LIGHT circuits alongwith **Earthing** on the Cage clamp terminals with glass fuses in ref. to drawing no. **SKED 924** properly.

iv. Terminations of wires for LIGHT and FAN circuits shall be ensured at Terminal no. 102, 107 (L-1) & 114,115(L-II), 111 (PE), 103, 106 (L-III), 201, 222 (L-IV) , 110 (PE) provided in SBC.

v. 110VDC Wiring of BLDC Fans and DC Lighting circuits shall be laid in Conduit-1 (Upper) already provided in Roof of coach and 110VAC wiring for mobile charging shall be laid in Conduit-2 (Lower) already provided in Roof as per undergiven details:

vi. 110VDC Wiring of BLDC Fans and DC Lighting circuits shall be laid in conduit-1 (Upper) already provided in Roof of coach and 110VAC wiring for mobile charging shall be laid in in Conduit-2 (Lower) already provided in Roof as per undergiven details:

Conduit	Existing Arrgt.	Revised Arrgt.
Conduit-1(Upper)	Lighting Ckt. (110AC/DC) L-I +, L-II +, NL	Lighting & Fan Ckt. (110DC) L-I + L-II + & F-I, F-II, F-III
Conduit-2(Lower)	Fan & Mobile charging Ckt. (110VAC) F-I, F-II, F-III & CS-I, CS-II	Mobile Charging Ckt. (110VAC) CS-I, CS-II, CS-III

b). Modifications in existing Mobile charging circuit:

i. In existing coaches wiring scheme, 02nos. mobile charging sockets per bay are provided in passenger area (i.e. 01 no. on each side).

ii. However as per revised scheme to drawing SKED924, 06 nos./bay mobile charging sockets are to be provided in passenger area (i.e. 03 nos. on each side are to be provided in Passenger area on side wall)

Item desc.	Existing Ref. Drawing (LJ74100 Alt. nil)		Revised ref. drawing (LJ74101 Alt. a)	
	Cabin Side	Corridor side	Cabin Side	Corridor side
Switch Plate	EDML125, Rev.-0 (Item-1)	EDML125, Rev.-0 (Item-1)	EDML125 Rev 6, (Item-1)	EDML125 Rev.-6 (Item-2)
Charging Sockets	01	01	03	03
Wiring	-	-	Additional wire as per SKED 924 to be provided.	-

iii. Accordingly the Cut Outs shall also be modified to suit the switch plate assemblies as per document no. **EDML 125 Rev. 6 Table-1.** Additional suitable cut outs shall be made for provision of additional mobile charging socket points to document EDML 125 Rev. 6.

iv. Mobile charging circuits shall be split up into three circuits inplace of existing two circuits. Additional wiring **(1x1.5sqmm (Blue)** for third circuit shall be laid in the existing conduit.

v. Connections of Mobile Charging sockets points in Switch Plate assemblies shall be made in ref. to drawing no. **SKED 924.**

vi. Terminations of wires shall be ensured at Terminal no. 240-241, PE (CS-I), 242- 243, PE (CS-II), 244- 245, PE (CS-III), provided in SBC.

c). Provision of Accident emergency light (AEL).

i. Provide the Accident emergency light (AEL) as per RDSO spec. no. **RDSO/PE/SPEC/TL/0180-2016 REV.-0, Type-2** inside the corridor as well as in door way area at the existing locations.

ii. Connect all the accident emergency light (AEL) provided in corridor and doorway area on both ends with existing wring and terminate the wiring in SBC at the **110VDC** MCBs (+S1F41 6A =32-F25.).

d). Re-connection of Reservation Chart Light (Part of PARCIL)

i. Disconnect both the **Reservation Chart Light (part of Passenger Alarm Coach Indication cum Reservation Chart Light), (PARCIL)** provided on the PP end of coach from AC Circuit terminal nos. 112 & 113 and re-connect to DC supply circuit at 110VDC MCBs (+S1F42 6A =32-F26) in SBC.

e). Provision of BLDC Fans :

i. BLDC fans to RDSO spec. RDSO/PE/SPEC/TL/0021/2005 Rev.3 (AM-1) with RCF Annex.-1 shall be mounted at the existing locations in the roof arrangement.

ii. Connect the Male-Female WAGO type connectors supplied by the vendor alongwith fan supply. Connect the all the BLDC FAN circuits on the Cage clamp terminals with glass fuses in ref. to drawing no. **SKED 924** properly.

iii. Terminations of wires shall be ensured at Terminal no. 118- 119 (F-I), 120- 121 (F-II), 122-123 (F-III), PE provided in SBC.

2. Side wall arrangement:

a). Mounting of Switch Plates :

i. Switch plate assemblies to document no. **EDML 125, Rev.6 Table-1 s**hall be mounted after modifications in the cut Outs to suit the switch plate assemblies as per document no. **EDML 125 Rev. 6 Table-1** on both sides wall of the coach inside the passenger area.

ii. Connections for Fan and Mobile charging circuits shall be made properly as per ref. drawing no. **SKED924.** No looseness of wires in switch plates shall be there and same shall be ensured during fitment.

3. Under frame Arrangement :

a). Fitment / Mounting of the 9kVA 750V/415V /190V Transformer:

i. Mount the **9kVA 750V/415V/190V** Transformer to RDSO spec. RDSO/PE/SPEC/TL/0158 Rev.0, Type-1 on the existing location of 60kva transformer with suitable hardwares as the mountings of both the transformers (i.e 60kva as well as 9kva) are same, Hence no change /additional brackets are required for mounting of 9 kVA transformer.

ii. Connect the existing Input wires and Output e-beam cables of size 16Sqmm already laid on the underframe at the IN PUT supply terminals for 750V AC & OUT PUT terminals for 415VAC in 9kva Transformer, however for 190VAC Circuit Out Put supply, additional harness of size **4x6sqmm (R, Y, B, N), length 31mtr** each shall be laid.

iii. Connect the 750VAC (I/P), 415VAC supply and 190VAC (O/P) supply as tabulated below:

750AC (I/P) (R, Y, B, N)	I/P from +S1K01=32K1 looped at +S1K02 =32K2	SBC
415AC (O/P) (R, Y, B, N)	L.1 (+S1F44 =12-F10) , 25A (HRC) L.2 (+S1F45 =12-F11) , 25A (HRC) L.3 (+S1F46 =12-F12) , 25A (HRC) N (+S1F101 =33-F101), 6A (MCB) (Loop at +S1F102, +S1F103 & +S1F104)	SBC
190VAC (O/P) (R, Y, B, N)	L.1.1 (+S1F47 =12-F15) , 25A (HRC) L.2.1 (+S1F48 =12-F16) , 25A (HRC) L.3.1 (+S1F49 =12-F17) , 25A (HRC) N.1 (+S1F107 =33-F107), 6A (MCB) (Loop at +S1F108, & +S1F109).	SBC

4. **Bill of Material (BOM) Required per coach for modifications:**

Sno.	Item Description	Ref. Spec/Drg. No.	QPC	Remarks
1.	9Kva Transformer 750V/415V/190V 3-Phase distribution transformer	RDSO/PE/SPEC/TL/0158-2010 (REV.-0), Type-1	01NO.	Underframe
2.	BLDC Fans	RDSO/PE/SPEC/TL/0021 Rev. 3-2005, AM-1 with RCF Annex.-1	36nos.	Passenger AREA
3.	Accident emergency light (AEL).	RDSO/PE/SPEC/TL/0180-2016 REV.-0, Type-2	1set Consist of 04nos.	Passenger /corridor area
4	Switch plate assemblies	EDML125 REV.6 (Tab.-1) (Item-1)	01 SET comprises of **20nos.**	Passenger AREA
		EDML125REV.6 (Tab.-1) (Item-2)	01 SET comprises of **20nos.**	Passenger AREA
5.	Cage clamp Terminals with glass fuses (Cabin Side)	SKED 933	18nos.	Passenger AREA
6.	Cage clamp Terminals with glass fuses (Doorway area).	SKED 934	04nos.	Passenger AREA
7	e-beam cable Size 6sqmm (Red) upto 750Volt	ELRS/SPEC/ELC/0019 REV. 4	31mtr.	**For 190VAC O/P from 9kva TXR**
7.1	e-beam cable Size 6sqmm (Yellow)		31mtr.	
7.2	e-beam cable Size 6sqmm (Blue)		31mtr.	
7.3	e-beam cable Size 6sqmm (Black)		31mtr.	
8	e-beam cable Size 1.5sqmm (RED)	ELRS/SPEC/ELC/0019 REV. 4	75mtr	For mobile charging circuit -3 and Looping at additional mobile charging points.
8.1	e-beam cable Size 1.5sqmm (YELLOW)		75mtr	
8.2	e-beam cable Size 1.5sqmm (Blue)		75mtr	
8.3	e-beam cable Size 1.5sqmm (Black)		200mtr	
8.4	e-beam cable Size 1.5sqmm (GNYE)		75mtr	
9.	Hardwares	As required	**Lot**	-

5. Modifications in Switch Board Cabinet :

Changes in the Switchboard Cabinet to Spec no EDTS333		
A	**Modifications in the Schematic drawing of the SBC :**	
A.1	**Drawing no LS70202 sheet 1/13 revised to drawing no SKED 925**	
	1	Specification for the cables revised to RDSO specification no ELRS/SPEC/0019 Rev-4
A.2	**Drawing no LS70202 sheet 2/13 revised to drawing no SKED 926**	
	1	Temperature sensor wires for the Regulated Battery Charger deleted
A.3	**Drawing no LS70202 sheet 3/13**	
	1	No change
A.4	**Drawing no LS70202 sheet 4/13 revised to drawing no SKED 927**	
	1	Transformer 33T01/+S1F74, 1 kVA 230/110 volts deleted
	2	Auxiliary contactor lighting 33K09/+S1K48, item 89 of the BOM
	3	MCB 33F22/S1F39, 33F23/S1F40, 33 F24/S1F41 deleted
	4	Insulation Monitoring Relay 93A1/S1A06 deleted
	5	Wago type Fuse 33F35/S1F74 and 33F36/S1F75 marked spare
A.5	**Drawing no LS70202 sheet 5/13 revised to drawing no SKED 928**	
	1	Auxiliary contactor lighting 32K10/+S1K11, item 59 of the BOM
	2	Contactor Lighting with Diode 32 K12/+S1K14 item 60 of the BOM
	3	Contactor Lighting with Diode 32 K13/+S1K13 item 61 of the BOM
	4	Time Delay Relay 32 K15/+S1K17 item 63 of the BOM
	5	Circuit modified accordingly for all lighting on DC
A.6	**Drawing no LS70202 sheet 6/13 revised to drawing no SKED 929**	
	1	MCB 32F06/+S1F25, MCB 10 A DP, nomenclature changed to Lighting
	2	MCB 32F07/+S1F26, MCB 10 A DP, nomenclature changed to Lighting
	3	MCB 32F15/+S1F34, MCB 10 A DP, nomenclature changed to spare
A.7	**Drawing no LS70202 sheet 7/13**	
	1	No change
A.8	**Drawing no LS70202 sheet 8/13 revised to drawing no SKED 930**	
	1	AC contactors eliminated and lighting circuit modified to dc circuit only
A.9	**Drawing no LS70202 sheet 9/13**	
	1	No change

A.10	**Drawing no LS70202 sheet 10/13**	
	1	No change
A.12	**Drawing no LS70202 sheet 11/13 revised to drawing no SKED 931**	
	1	Minimal Voltage Relay MR9, 110 V 32U13/+S1K17 item 69 of the BOM deleted
A.13	**Drawing no LS70202 sheet 12/13**	
	1	No change
A.14	**Drawing no LS70202 sheet 13/13 revised to drawing no SKED 932**	
	1	MCB connected to DC in place of AC
	2	MCB 32F22/S1F38, 32F23/S1F39, 32F24/S1F40 Added of 6 Amps, 250 V DC
	3	MCB 32F25/S1F41, 32F26/S1F42 Added of 6 Amps, 250 V DC
	4	MCB 33F109/S1F109 Added of 6 Amps, 250 V AC
	5	RCBO 4-pole 16 amps, 30mA added for mobile charging circuit
	6	MCB +S1F30, 6AMP = 32-F11 to be used for connection of the AEL circuit
	7	MCB +S1F42, 6AMP = 32-F26 to be used for connection of the Reservation Chart Light
Note		
	1	**HOG modification as per RDSO Modification sheet no RDSO/PE/MS/AC/0051-2017 Rev-2, Amdt-1 (or Latest Edition) issued vide RDSO letter no EL/1.6.9.22 Dated 28/07/2014, 24/09/2015, 21/03/2017 may be incorporated (copy enclosed)**
	2	Terminal block drawings LS 70201 modified - terminals for earthing and mobile charging socket added
B.1	**Bill Of Material required to be deleted :**	
	1	Auxiliary contactor lighting 32K10/+S1K11, Item 59 of the BOM- **deleted**
	2	Contactor Lighting with Diode 32 K12/+S1K14 Item 60 of the BOM- **deleted**
	3	Contactor Lighting with Diode 32 K13/+S1K13 Item 61 of the BOM - **deleted**
	4	Time Relay 32 K15/+S1K17 item 63 of the BOM - **deleted**
	5	Minimal Voltage Relay MR9, 110 V 32U3/+S1U2.3 Item 69 of the BOM - **deleted**
	6	Auxiliary contactor lighting 33K09/+S1K48, item 89 of the BOM - **deleted**
	7	Transformer 33T01/+S1F74, 1 kVA 230/110 volts deleted - **deleted**
	8	MCB 33F22/S1F39, 33F23/S1F40, 33 F24/S1F41 - **deleted**
	9	Auxiliary contactor for minimal voltage step (90-156V DC), 32K05/+S1K08, Item-58 of BOM - - **deleted**

C: FOLLOWING ITEMS MAY BE ADDED :

Sr.no.			Item/Term function Technical data	QTY	Drawing no	manufacturer supplier	Place of Installation
1	32	F23	MCB Fan 6 A, 200 V dc 2-Pole Breaking Capacity 10kA	4	BJ2006DC	L&T	S1F39 – BLDC Fan S1F40 – BLDC Fan S1F41 – BLDC Fan S1F42 - RCL
	32	F24			5SY52067CC	SIEMENS	
	32	F25			A9N61523	SCHNEIDER	
	32	F26			S202MT-C6UC	ABB	
					FAZ-C6/2-DC	EATON	
2	33	F109	MCB Fan 6 A, 230 V Ac 2-Pole Breaking Capacity 10kA	1	BB20060C	L&T	S1F109
					5SL42067RC	SIEMENS	
					A9N2P06C	SCHNEIDER	
					S202MY-C6C	ABB	
					FAZ-C6/2-DC	EATON	
3			Cage clamp Earthing Terminal block	4	280-837	WAGO/Phoenix /Connectwell	Terminal no. 83 to 86 to be replaced.

D	Modifications in the Structural drawing of the SBC :	
D.1	**Drawing no LS70201 sheet 3/14 Revised to drawing no SKED 935 sheet - 1**	
	1	Contactors 32K10/+S1K11, 32 K12/+S1K14, 32 K13/+S1K13, 32 K15/+S1K17, MR9, 110 V 32U3/+S1U2.3, 32K05/+S1K08 deleted, drawing revised
D.2	**Drawing no LS70201 sheet 6/14 revised to drawing no SKED 935 sheet - 2**	
	1	MCB re-arranged :as per reference-E
D.3	**Drawing no LS70201 sheet 1/14 revised terminal codifications chart.**	
	1	Terminal no. 83 to 86 changed to 280-837 of M/s WAGO in-place of 280-833 of M/s WAGO

E: Reference : MCBs Codification chart : SKED 935

Sno.	Code	Rating	Description
1	S1F24	DP 6A	MCB for Lighting control
2.	S1F25	DP 6A	MCB for lighting (L-II Circuit) – Non Essential Lighting
3	S1F26	DP 6A	MCB for lighting (L-I Circuit) – Essential Lighting
4	S1F29	DP 6A	MCBs DC-DC Converter
5	S1F30	DP 6A	MCBs for AEL
6	S1F32	DP 6A	MCBs for Diagnosis
7	S1F33	DP 10A	MCBs for PIS & Destination Board.
8	S1F34	DP 10A	Spare
9	S1F36	DP 6A	MCBs for Pump Control
10	S1F37	DP 10A	MCBs for CDTS
11	S1F38	DP 10A	MCBs for PA System.
12	-	-	SPARE
13	-	-	SPARE
14	S1F39	DP 6A	MCBs for BLDC Fans (F-I)
15	S1F40	DP 6A	MCBs for BLDC Fans (F-II)
16	S1F41	DP 6A	MCBs for BLDC Fans (F-III)
17	S1F42	DP 6A	MCBs for RCL
18	S1F15	TP 16A	MCBs for Exhaust Fan
19	S1F101	DP 6A	MCBs for Bottle Cooler cum Deep freezer.
20	S1F102	DP 20A	MCBs for Water Boiler
21	S1F103	DP 6A	MCBs for Hot Case
22	S1F104	DP 6A	MCBs for Bottle Cooler
23	S1F107	DP 6A	MCBs for Mobile Charging Socket (CS-I)
24	S1F108	DP 6A	MCBs for Mobile Charging Socket (CS-II)
25	S1F109	DP 6A	MCBs for Mobile Charging Socket (CS-III)

F: Revised Terminals Codification Chart (Spec. EDTS333)

ITEM NO.	TER. NO.	PART NO	LOCATION	Ref. Sheet no.
72	**102**	280-833	L-I (+VE)	Sheet 8/13
71	**101**	280-833	PACIL CIRCUIT	Sheet 12/13
70	**100**	280-833	DIAGNOSIS	Sheet 9/13
69	**98**	280-833	DIAGNOSIS	Sheet 9/13
68	**97**	280-833	DIAGNOSIS	Sheet 9/13
67	**96**	280-833	DIAGNOSIS	Sheet 9/13
66	**95**	280-833	PACIL CIRCUIT	Sheet 9/13
65	**94**	280-833	DIAGNOSIS	Sheet 9/13
64	**93**	280-833	DIAGNOSIS	Sheet 9/13
63	**92**	280-833	DIAGNOSIS	Sheet 9/13
62	**90**	280-833	DIAGNOSIS	Sheet 9/13
61	**89**	280-833	DIAGNOSIS	Sheet 9/13
60	**88**	280-833	LIGHT CONTROL	Sheet 5/13
59	**87**	280-833	LIGHT CONTROL	Sheet 5/13
58	**86**	280-833	SPARE (replaced with 280-837) Earth	-
57	**85**	280-833	SPARE (replaced with 280-837) Earth	-
56	**84**	280-833	SPARE (replaced with 280-837) Earth	-
55	**83**	280-833	SPARE (replaced with 280-837) Earth	-
54	**82**	280-833	SPARE	-
53	**81**	280-833	SPARE	-
52	**64**	280-833	ANTI SKID SYSTEM	Sheet 7/13
51	**63**	280-833	ANTI SKID SYSTEM	Sheet 7/13
50	**62**	280-833	ANTI SKID SYSTEM	Sheet 7/13
49	**61**	280-833	ANTI SKID SYSTEM	Sheet 7/13
48	**60**	280-833	ANTI SKID SYSTEM	Sheet 7/13
47	**59**	280-833	ANTI SKID SYSTEM	Sheet 7/13
46	**58**	280-833	ANTI SKID SYSTEM	Sheet 7/13
45	**57**	280-833	ANTI SKID SYSTEM	Sheet 7/13
44	**56**	280-833	ANTI SKID SYSTEM	Sheet 7/13
43	**55**	280-833	ANTI SKID SYSTEM	Sheet 7/13
42	**54**	280-833	ANTI SKID SYSTEM	Sheet 7/13
41	**53**	280-833	ANTI SKID SYSTEM	Sheet 7/13
40	**52**	280-833	ANTI SKID SYSTEM	Sheet 7/13
39	**51**	280-833	ANTI SKID SYSTEM	Sheet 7/13
38	**50**	280-833	ANTI SKID SYSTEM	Sheet 7/13

37	**49**	280-833	ANTI SKID SYSTEM	Sheet 7/13
36	**48**	280-833	ANTI SKID SYSTEM	Sheet 7/13
35	**47**	280-833	ANTI SKID SYSTEM	Sheet 7/13
34	**46**	280-833	ANTI SKID SYSTEM	Sheet 7/13
33	**45**	280-833	ANTI SKID SYSTEM	Sheet 7/13
32	**44**	280-833	ANTI SKID SYSTEM	Sheet 7/13
31	**43**	280-833	ANTI SKID SYSTEM	Sheet 7/13
30	**42**	280-833	ANTI SKID SYSTEM	Sheet 7/13
29	**41**	280-833	ANTI SKID SYSTEM	Sheet 7/13
28	**39**	280-833	VOLUME CONTROL	Sheet 10/13
27	**38**	280-833	VOLUME CONTROL	Sheet 10/13
26	**37**	280-833	VOLUME CONTROL	Sheet 10/13
25	**36**	280-833	SPEAKERS	Sheet 10/13
24	**35**	280-833	PUMP CONTROL	Sheet 3/13
23	**34**	280-833	PUMP CONTROL	Sheet 3/13
22	**33**	280-833	ANTI SKID SYSTEM	Sheet 7/13
21	**30**	280-833	PUMP CONTROL	Sheet 3/13
20	**29**	280-833	PUMP CONTROL	Sheet 3/13
19	**28**	280-833	AMPLIFIER FOR PA SYSTEM	Sheet 10/13
18	**27**	280-833	AMPLIFIER FOR PA SYSTEM	Sheet 10/13
17	**26**	280-833	CDTS	Sheet 6/13
16	**25**	280-833	CDTS	Sheet 6/13
15	**24**	280-833	PUMP CONTROL	Sheet 6/13
14	**23**	280-833	PUMP CONTROL	Sheet 6/13
13	**13**	280-833	LOUDSPEAKER SYSTEM	Sheet 10/13
12	**12**	280-833	UIC REMOTE	Sheet 11/13
11	**11**	280-833	UIC REMOTE	Sheet 11/13
10	**10**	280-833	UIC REMOTE	Sheet 11/13
9	**9**	280-833	PA SYSTEM	Sheet 10/13
8	**8**	280-833	PA SYSTEM	Sheet 10/13
7	**7**	280-833	PA SYSTEM	Sheet 10/13
6	**6**	280-833	PA SYSTEM	Sheet 10/13
5	**5**	280-833	PA SYSTEM	Sheet 10/13
4	**4**	280-833	PA SYSTEM	Sheet 10/13
3	**3**	280-833	PA SYSTEM	Sheet 10/13
2	**2**	280-833	PA SYSTEM	Sheet 10/13
1	**1**	280-833	PA SYSTEM	Sheet 10/13

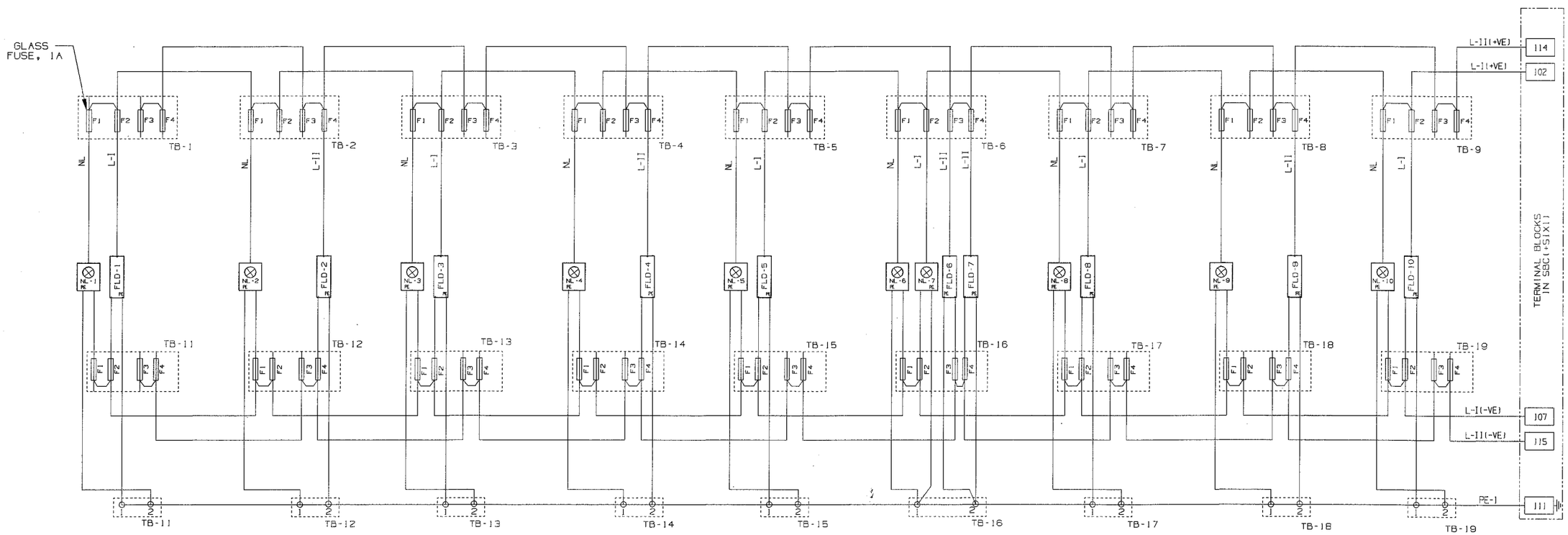
73	**103**	280-833	L-III (+VE) / L-IV(+VE)	Sheet 8/13
74	**104**	280-833	SPARE	-
75	**105**	280-833	SPARE	-
76	**106**	280-833	L-III (-VE) / L-IV (-VE)	Sheet 8/13
77	**107**	280-833	L-I (-VE)	Sheet 8/13
78	**108**	280-833	DOORWAY LIGHT	Sheet 8/13
79	**109**	280-833	DOORWAY LIGHT	Sheet 8/13
80	**112**	280-833	SPARE	-
81	**113**	280-833	SPARE	-
82	**114**	280-833	L-II (+VE)	Sheet 8/13
83	**115**	280-833	L-II (-VE)	Sheet 8/13
84	**116**	280-833	SPARE	-
85	**117**	280-833	SPARE	-
86	**118**	280-833	FAN CIRUIT	Sheet 13/13
87	**119**	280-833	FAN CIRUIT	Sheet 13/13
88	**120**	280-833	FAN CIRUIT	Sheet 13/13
89	**121**	280-833	FAN CIRUIT	Sheet 13/13
90	**122**	280-833	FAN CIRUIT	Sheet 13/13
91	**123**	280-833	FAN CIRUIT	Sheet 13/13
92	**198**	280-833	SPARE	-
93	**199**	280-833	SPARE	-
94	**200**	280-833	EARTH INSULATION 415V	Sheet 2/13
95	**201**	280-833	SPARE	-
96	**202**	280-833	EARTH INSULATION 415V	Sheet 2/13
97	**203**	280-833	AMMETER	Sheet 2/13
98	**204**	280-833	AMMETER	Sheet 2/13
99	**205**	280-833	AMMETER	Sheet 2/13
100	**206**	280-833	AMMETER	Sheet 2/13
101	**210**	280-833	SPARE	
102	**228**	280-833	DEEP FREEZER	Sheet 4/13
103	**229**	280-833	DEEP FREEZER	Sheet 4/13
104	**230**	280-833	HOT WATER BOILER	Sheet 4/13
105	**231**	280-833	HOT WATER BOILER	Sheet 4/13
106	**232**	280-833	HOT CASE	Sheet 4/13
107	**233**	280-833	HOT CASE	Sheet 4/13
108	**234**	280-833	BOTTLE COOLER	Sheet 4/13
109	**235**	280-833	BOTTLE COOLER	Sheet 4/13
110	**240**	280-833	MOBILE CHARGING SOCKET -1	Sheet 13/13
111	**241**	280-833	MOBILE CHARGING SOCKET -1	Sheet 13/13

112	**242**	280-833	MOBILE CHARGING SOCKET -2	Sheet 13/13
113	**243**	280-833	MOBILE CHARGING SOCKET -2	Sheet 13/13
113A	**244**	280-833	MOBILE CHARGING SOCKET -3	Sheet 13/13
113B	**245**	280-833	MOBILE CHARGING SOCKET -3	Sheet 13/13
114	**F56**	282-122	UIC REMOTE CONTROL	Sheet 10/13
115	**F57**	282-122	UIC REMOTE CONTROL	Sheet 10/13
116	**F58**	282-122	SPARE	
117	**F59**	282-122	SPARE	
118	**F60**	282-122	INSULATION CONTROL 230/ 415 VAC	Sheet 2/13
119	**F61**	282-122	INSULATION CONTROL 230/ 415 VAC	Sheet 2/13
120	**F62**	282-122	INSULATION CONTROL 230/ 415 VAC	Sheet 2/13
121	**F63**	282-122	ANTI SKID	Sheet 6/13
122	**F65**	282-122	ANTI SKID	Sheet 6/13
123	**F73**	282-122	415 OK	Sheet 1/13
124	**F74**	282-122	SPARE	-
125	**F75**	282-122	SPARE	-

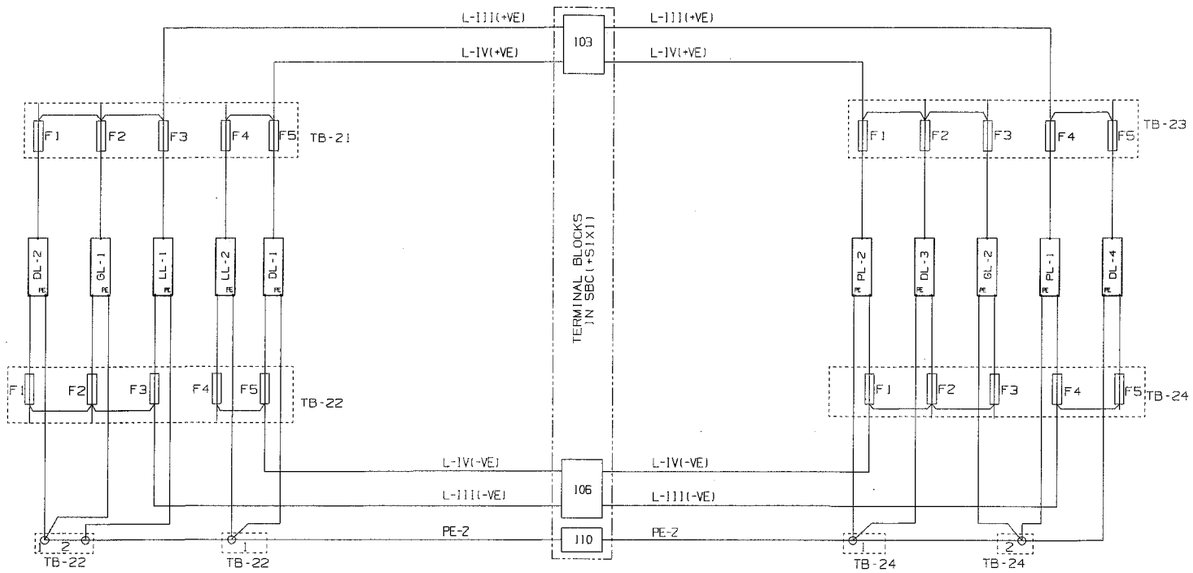
6. Enclosures:

Sno.	Ref. Specification/Drawing no	Item Description
1.	SKED 924	Modified Schematic diagrams for roof wiring for LHB Non AC Chair Car Coach
2.	SKED 925 to SKED 932 and LS70202 Alt. nil (Sheets 3/13, 7/13, 9/13, 10/13 & 12/13.	Schematic diagrams for Switch Board Cabinet to spec. EDTS333 Rev. 0, Am-1&2, Cor.1, 2, 3.
2.1	SKED 935 (SHEET 1 OF 2)	MCB Holder for Switch Board Cabinet
2.2	SKED 935 (SHEET 2 OF 2)	Equipment back mounting plate for Switch Board Cabinet .
4.	RDSO/PE/SPEC/TL/0158-2010 (REV.-0), Table-1	RDSO Specification for 9kVA Transformer 750V/415V/190V 3-Phase Distribution Transformer
5.	RDSO/PE/SPEC/TL/0021 Rev.3 - 2005, AM-1 with RCF Annex.-1	RDSO Specification for 110V Brush less DC Fan
6.	RDSO/PE/SPEC/TL/0180-2016 REV.-0, Type-2	RDSO Specification for Accident Emergency Light (AEL).
7.	EDML125 REV. 6 (Table-1& 2)	Switch plate assemblies for Non AC Chair Car
8.	Cage clamp Terminals with glass fuses (Cabin Side)	SKED 933
9.	Cage clamp Terminals with glass fuses (Doorway area).	SKED 934
10	ELRS/SPEC/ELC/0019 REV. 4	RDSO Specification for e-beam cables

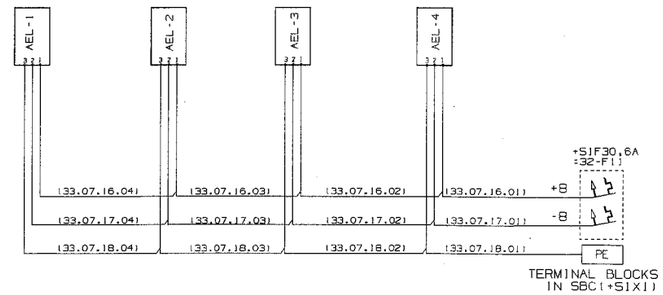
ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY



COMPARTMENT LIGHT CIRCUIT



LAVATORY & DOOR-WAY LIGHT CIRCUIT



ACCIDENTAL EMERGENCY LIGHT CIRCUIT

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WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES:	NIL		
WEIGHT	FILE	Z:\SKED-924\SKED-924sl.prt (2D)				
NIL KG		MODIFIED SCHEMATIC DIAGRAM FOR ROOF WIRING (FOR LHB EOG NON AC CHAIR CAR COACH TO LAYOUT NO. LJ90004, ALT-NIL)	SCALE	SSE/ED		
S.AREA				CHD		
NIL M²				DRN		
~~LENGTH/DIA~~						
NIL M		RAIL COACH FACTORY, KAPURTHALA	REF.DRG.No. NIL			
~~WIDTH/THICK.~~		रेल कोच फैक्टरी कपूरथला	IRS	PL NO.	NIL	
NIL M				DRG.NO.	SKED-924	
HEIGHT		SEE/D&D	DY.CEE/D&D	ALT.	NIL SIZE A1 SHEET 1/3	
NIL M						

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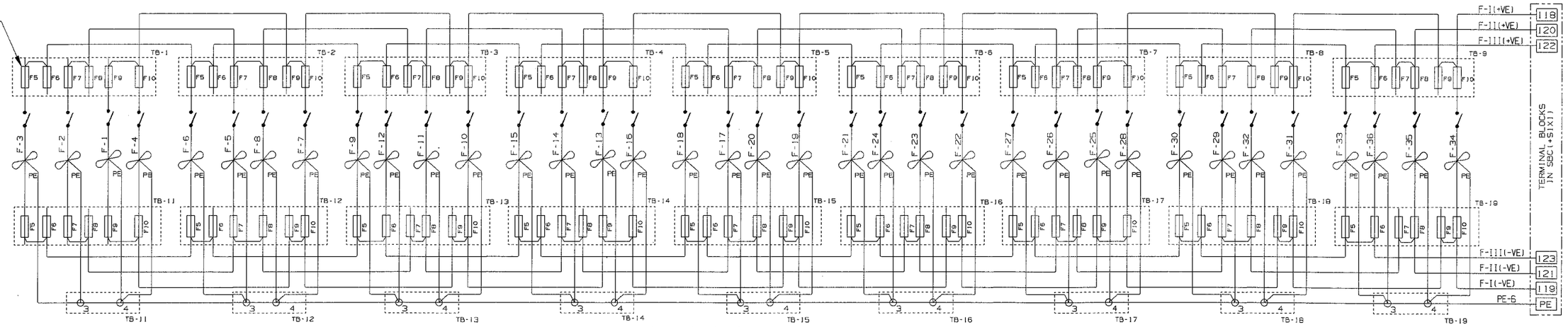
DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

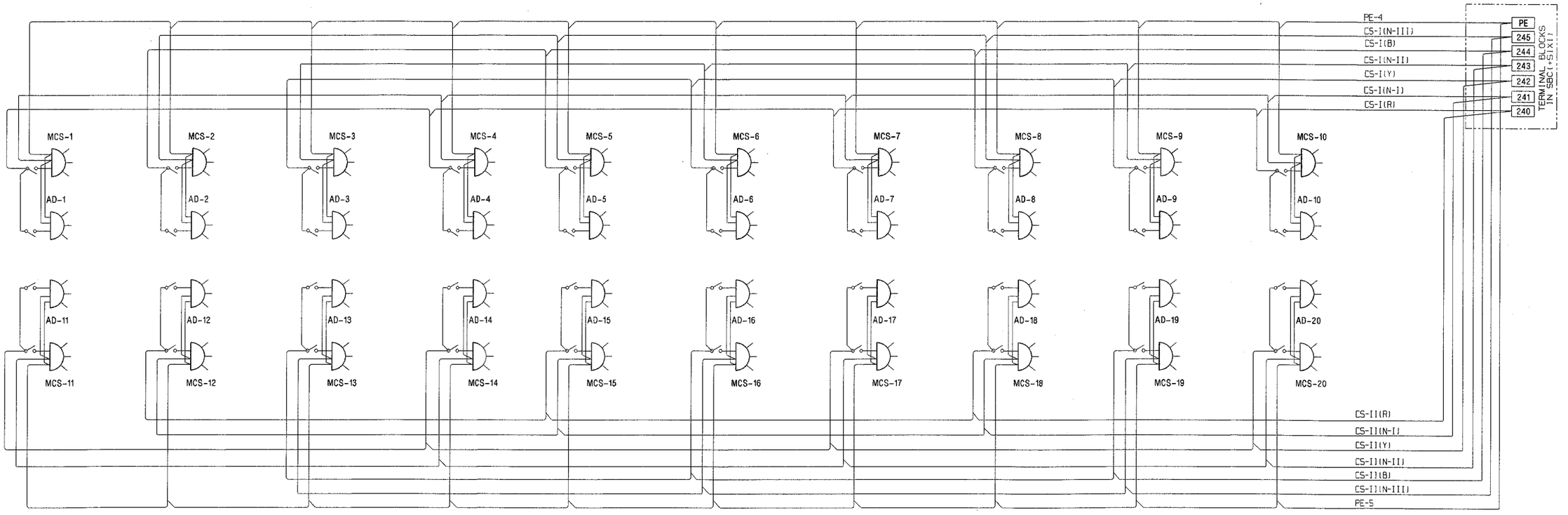
DATE OF FIRST ISSUE 23/12/2023

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY

GLASS FUSE, 1A



FAN CIRCUIT



MOBILE CHARGING SOCKET CIRCUIT

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WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M			NIL	NIL	NIL	NIL
WEIGHT	GROUP	ELECTRICAL	SUPERSEDES:		NIL	
NIL KG	FILE	Z:\SKED-924\SKED-924s2.prt (2D)				
S.AREA		MODIFIED SCHEMATIC DIAGRAM FOR ROOF WIRING (FOR LHB EOG NON AC CHAIR CAR COACH TO LAYOUT NO. LJ90004, ALT-NIL)	SCALE	SSE/ED		
NIL M^2				CHD		
~~LENGTH/DIA~~				DRN		
NIL M		RAIL COACH FACTORY, KAPURTHALA	REF.DRG.NO. NIL			
~~WIDTH/THICK.~~		रेलकोच फैक्टरी कपूरथला IRS	PL NO.	NIL		
NIL M			DRG.NO.	SKED-924		
HEIGHT		SEE/D&D DY.CEE/D&D	ALT.	NIL	SIZE A	SHEET 2/3
NIL M						

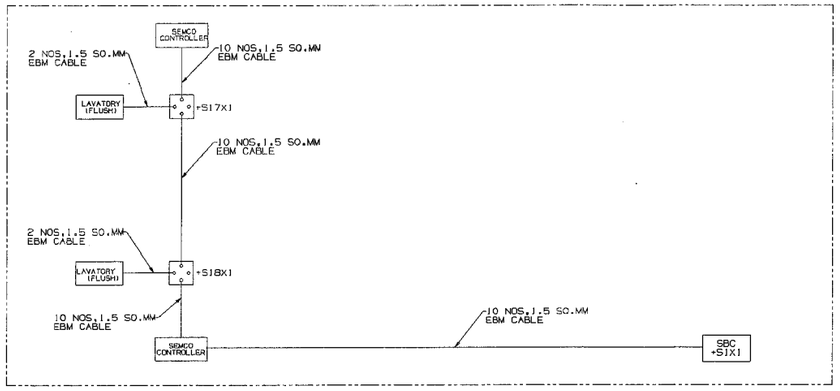
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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

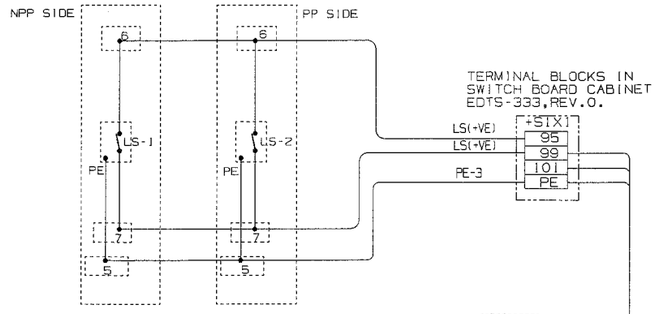
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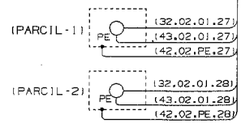
ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL

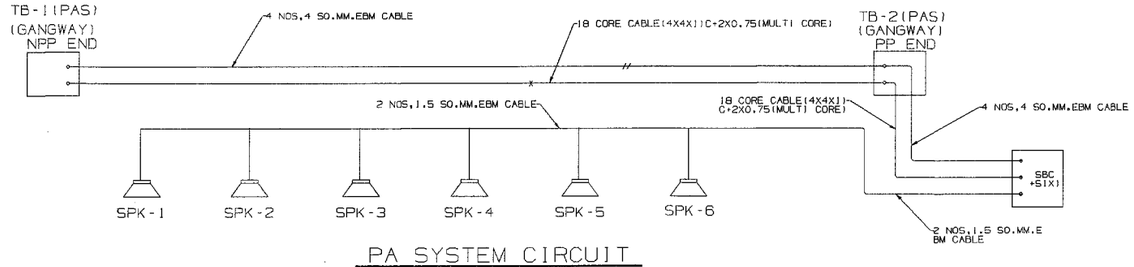


CDTS CIRCUIT

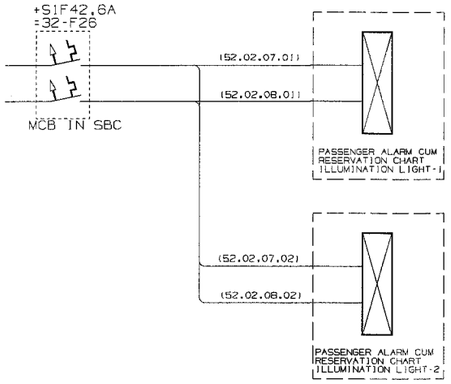


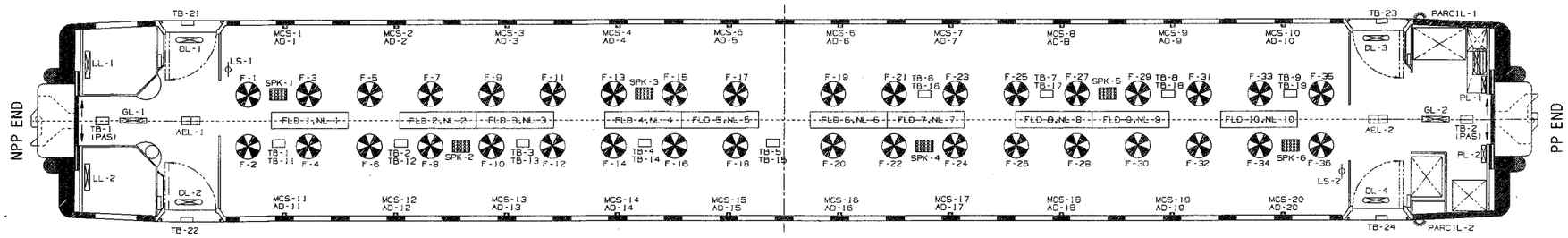
PACIL CIRCUIT





PA SYSTEM CIRCUIT





REFERENCE DIAGRAM

110V DC LOAD ON INDIVIDUAL CIRCUIT

CIRCUIT	CONNECTED LOAD	LOAD IN WATTS	LOAD IN CURRENT
L-I	FLD-1,3,5,8,10	90	0.82A
L-II	FLD-2,4,6,7,9	90	0.82A
L-III	DL-2,4 GL-1 LL-1, PL-1	45	0.41A
L-IV	DL-1,3 GL-2 LL-2, PL-2	45	0.41A
PARCIL	PARCIL-1,2	26	0.23A
F-I(BLDC)	FAN-1,4,7,10,13,16, 9,22,25,28,31,34	456	4.15A
F-II(BLDC)	FAN-2,5,8,11,14,17 20,23,26,29,32,35	456	4.15A
F-III(BLDC)	FAN-3,6,9,12,15,18 21,24,27,30,33,36	456	4.15A
AEL	AEL-1,2,3,4	12	0.11A
NL	NL-1 TO 10	50	0.45A
TOTAL		1726	15.69A

110V AC LOAD ON INDIVIDUAL CIRCUIT

CIRCUIT	CONNECTED LOAD	LOAD IN WATTS	LOAD IN CURRENT
MCS CKT-1	MCS-1,4,7,10,12, 15,18 AD-1,4,7,10,12,15, 18	210	1.91A
MCS CKT-2	MCS-3,6,9,11,14, 17,20 AD-3,6,9,11,14,17, 20	210	1.91A
MCS CKT-3	MCS-2,5,8,13,16,19 AD-2,5,8,13,16,19	180	1.64A
TOTAL		600	5.45A

CABLE SIZE

CABLE SIZE	SYMBOL	SPECIFICATION
1.5 SQ.MM. EBM CABLE	——	ELRS/SPEC/ELC/0019 REV-4
2.5 SQ.MM. EBM CABLE	—/—	ELRS/SPEC/ELC/0019 REV-4
4 SQ.MM. EBM CABLE	—//—	ELRS/SPEC/ELC/0019 REV-4
18 CORE CABLE (4X4X1)C+2X0.75 (MULTI CORE)	—X—	EDTS132 REV.C,AM-3 CORR-1, DATA SHEET-5

ABBREVIATION & LOAD CHART : 110V DC CIRCUIT

CODE	DESCRIPTION	WATTAGE	QTY PER COACH	LOAD IN WATTS
FLD	LED LIGHT	18	10	180
DL	DOOR WAY LIGHT	9	04	36
GL	GANGWAY LIGHT	9	02	18
LL	LAVATORY LIGHT	9	02	18
NL	NIGHT LIGHT	5	10	50
PARCIL	PASSENGER ALARM CUM RESERVATION CHART ILLUMINATION LIGHT	13	02	26
AEL	ACCIDENTAL EMERGENCY LIGHT	3	04	12
F	FAN	38	36	1368
PL	LED LIGHT	9	02	18
	TOTAL			1726

ABBREVIATION & LOAD CHART : 110V AC CIRCUIT

CODE	DESCRIPTION	WATTAGE	QTY PER COACH	LOAD IN WATTS
MCS	MOBILE CHARGING SOCKET	15	40	600
	TOTAL			600

2. FUSE F1 TO F10 ARE GLASS FUSE, 1A.
1. FOR SBC WIRING REFER DRG. NO. LS70202.

NOTE:

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DATE OF FIRST ISSUE 23/12/2023

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NIL M			NIL	NIL	NIL	NIL
WEIGHT	GROUP	ELECTRICAL	SUPERSEDES:		NIL	
NIL KG	FILE	Z:\SKED-924\SKED-924s3.prt (2D)				
S.AREA		MODIFIED SCHEMATIC DIAGRAM FOR ROOF WIRING			SCALE	SSE/ED
NIL M²		(FOR LHB EOG NON AC CHAIR CAR COACH TO LAYOUT NO. LJ90004, ALT-NIL)				GHD
~~LENGTH/DIA~~						DRN
NIL M		RAIL COACH FACTORY, KAPURTHALA			REF.DRG.No.	NIL
~~WIDTH/THICK.~~		रेलकोच फैक्टरी कपूरथला IRS			PL NO.	NIL
NIL M					DRG.NO.	SKED-924
HEIGHT		SEE/D&D	DY.CEE/D&D		ALT. NIL	SIZE A1 SHEET 3/3
NIL M						

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

DISCONNECTING AND EARTHING DEVICE

S1

=12-A1
+S1A2

POWER SUPPLY ON/OFF
+S1S01
:32-S7

+S1S02
:32S01
RSW-1

1 (A1) --- NET-1
2 (B1) --- OFF
3 (C1) --- NET-2

MAIN FUSES
:12-F01 20A +S1F50
:12-F02 20A +S1F51
:12-F03 20A +S1F52
:12-F04 20A +S1F53
:12-F05 20A +S1F54
:12-F06 20A +S1F55

MAIN CONTACTOR
+S1K01
:32-K1
=32/06.2

MMR-1
(MEASURING & MONITORING RELAY-1)
+S1K03
:21-K1

MMR-2
(MEASURING & MONITORING RELAY-2)
+S1K04
:21-K2

MMR NET-1

MMR NET-2

+S1S13
=21S01
RSW-V1

+S1S14
=21S02
RSW-V2

:21-P1
+S1P2

:21-P2
+S1P3

415V O.K.

:21-F1 1A +S1F90
:21-F2 1A +S1F91
:21-F3 1A +S1F93
:21-F4 1A +S1F94
:21-F5 1A +S1F95
:21-F6 1A +S1F96

:33-F4 1A +S1F73
:33-K05 +S1K-23

+S7
=12-T1

9KVA T/R
750V/415V
& 190V
(STAR-STAR
CONNECTED)

+S1T2 :12-T2
+S1T3 :12-T3
+S1T4 :12-T4

=12-S2
+S1S12

:12-F10 +S1F44 25A
:12-F11 +S1F45 25A
:12-F12 +S1F46 25A
:12-F15 +S1F47 10A
:12-F16 +S1F48 10A
:12-F17 +S1F49 10A

415V
190V

TO SHEET-13/A-1 TO SHEET-2/A-1

CABLE SIZE	25SQMM	16SQMM	10SQMM	6SQMM	4SQMM	2.5SQMM	1.5SQMM	ELECTRON BEAM IRRADIATED CABLE TO SPEC.NO. ELRS/SPEC/ELC/ 0019, REV-4 OR LATEST
SYMBOL	~~XXXX~~	~~XXX~~	~~XX~~	~~X~~	~~///~~	~~//~~	~~/~~	

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DATE OF FIRST ISSUE 28/12/2023

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL			NIL	NIL	NIL	NIL
NIL M	GROUP	ELECTRICAL	SUPERSEDES:		NIL	
WEIGHT	FILE	Z:\SKED-SBC\SKED-925.prt (2D)				
NIL KG		HIGH VOLTAGE (750V) WIRING DIAGRAM OF SWITCH BOARD CABINET (FOR LHB EOG NON-AC COACHES)		SCALE	SSE/ED	
S.AREA					CHD	
NIL M²					DRN	
~~LENGTH/DIA~~						
NIL M		RAIL COACH FACTORY, KAPURTHALA		REF.DRG.No.	NIL	
~~WIDTH/THICK.~~		रेलकोच फैक्टरीकपूरथला	IRS	PL NO.	NIL	
NIL M				DRG.NO.	SKED-925	
HEIGHT		SEE/D&D	DY.CEE/D&D	ALT.	NIL	SIZE A1 SHEET 1/1
NIL M						

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

415V 3 PHASE AC

FROM SHEET 1/H-18

L1 — 12 02 10.01 — 33 01 25.03 L1.2
L2 — 12 02 11.01 — 33 01 26.02 L2.2
L3 — 12 02 12.01 — 33 01 27.02 L3.2
N — 12 02 09.01 — 12 02 09.02 N

TO SHEET 3/A-1

12 02 10.04
12 02 09.02
12 02 09.04

L3.C1 330125.21
L2.C1 330126.22
L1.C1 330127.17
.02

+S1 -X3: 01 02 03 PE

330125.22 330126.23 330127.18 320113.01

=32-A1
+S1A3

+S1A3 -X1: A B C D E F G

320114.01

4.5KW RBC
3 Phase, 415V AC / 110V DC

+S1A3 -X2 UA

32 02 10.01 — +S1 -X3 04A — 32 02 10.02 — +UB =32/03.01
32 01 10.02 — +S1 -X3 04 — 32 01 10.01 — +UA
32 01 11.02 — 05 — 32 01 11.01 — -UA

(TO SHEET NO-6, B-1)

+S4 -X1: 01

FLOAT BOOST
+S1A3 -X20: 09 10 11 12 +S1A3 -X20

32 04 05.21 — 42 02 04.03 — 32 04 05.22 — 42 02 10.03

+S1 -X3: 17 16 15 14 13 12 11 10 09 08 06 07

+18 +19 +30 +31

=42/02.2 =42/02.2 =42/02.5 =42/02.5

FLOAT BOOST

=93-F3 +S1F60 2A
=93-F4 +S1F61 2A
=93-F5 +S1F62 2A

93 01 04.01
93 01 05.01
93 01 07.01

TO SHEET 4/F-2

93 01 04.01
93 01 05.01

93 01 04.02
93 01 05.02
93 01 07.02
93 01 07.03

+S1 -X1: 200

=93-A2
+S1-A7

A1 A2 L1 L2

IR 470LY - 40
(INSULATION COTROL AC-230/415V)

E KE 11 14

930106.01
930106.02

+S1 -X1: 202

sig7-11
sig7-14

FROM SHEET 9/C-15

BATTERY FUSE (+VE)

S4X1: 2
R1
F4 250MA
F5 250MA

+S4 -X1: 04 05

320203.01
320201.01

+S1 -X1: 205 203

320203.02
320201.02

=42-P1
+S1P8

A

=42-P2
+S1P9

320204.02
320202.02

+S1 -X1: 206 204

320204.01
320202.01

32 02 06 — +UB — TO SHEET-6 (1-1)

+S5 -X1: 04 05 06

F4 250MA
F5 250MA
F6 32A
R1
+S5 -X1: 12

BATTERY FUSE (-VE)

+S1 -X3: 20
+S5 -X1: 01
+S1 -X3: 21

2550.MM. CABLE

=32-A2
+S3

320114

5050.MM. CABLE

32 01 08 — -UB
32 01 09 — +UB

F2-32A (-VE)
F1-32A (+VE)

BATTERY 70Ah
110V DC

BATTERY FUSES
+VE & -VE AT
UNDER FRAME

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RAIL COACH FACTORY, KAPURTHALA.

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLT	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES:	NIL		
WEIGHT	FILE	Z:\SKED-SBC\SKED-926.prt				
NIL KG		BATTERY DISTRIBUTION	SCALE	SSE/ED		
S.AREA		WIRING DIAGRAM OF SWITCH BOARD CABINET		CHD		
NIL M²		(FOR LHB EOG NON-AC COACHES)		DRN		
~~LENGTH/DIA~~		RAIL COACH FACTORY, KAPURTHALA	REF.DRG.No.	NIL		
NIL M		रेल कोच फैक्टरी कपूरथला IRS	PL NO.	NIL		
~~WIDTH/THICK.~~			DRG.NO.	SKED-926		
NIL M			ALT.	NIL	SIZE A1	SHEET 1/1
HEIGHT						
NIL M		SEE/D&D DY.CEE/D&D				

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

415V 3 PHASE AC

FROM SHEET 3/A-11

L1.1 33.01.25.21 XX
L2.1 33.01.26.22 XX
L3.1 33.01.27.17 XX
N.1 12.02.09.02 XX

33 01 25.23

	=33-F101	=33-F102	=33-F103	=33-F104
	6A	20A	6A	6A
	+S1F101	+S1F102	+S1F103	+S1F104
1	1	1	1	1
2	2	2	2	2
	33 01 26.01	33 01 28.01	33 01 30.01	33 01 32.01
	+S1 -X1 228	+S1 -X1 230	+S1 -X1 232	+S1 -X1 234
	BOTTLE COOLER CUM DEEP FREEZER (500W)	HOT WATER BOILER (3000W)	HOT CASE (1000W)	BOTTLE COOLER (500W)
	+S1 -X1 229	+S1 -X1 231	+S1 -X1 233	+S1 -X1 235
	12 02 28.01	12 02 30.01	12 02 32.01	12 02 34.01
4	4	4	4	4
	=33-F101 6A +S1F101	=33-F102 20A +S1F102	=33-F103 6A +S1F103	=33-F104 6A +S1F104
3	3	3	3	3
	12 02 09.03 XX	12 02 09.04 XX	12 02 09.05 XX	12 02 09.06 XX

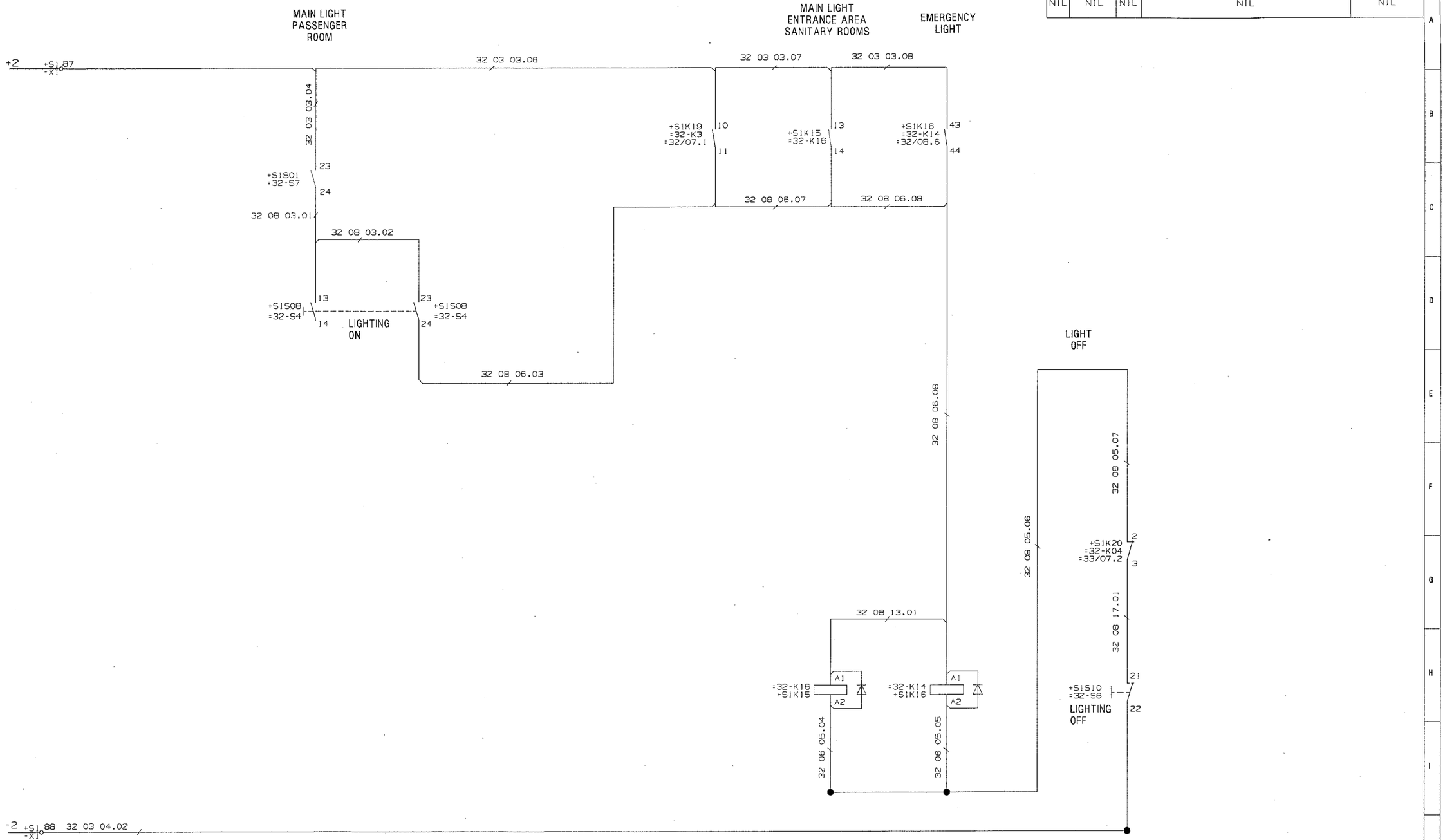
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RAIL COACH FACTORY, KAPURTHALA.

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.
DATE OF FIRST ISSUE 28/12/2023

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLT	DETAIL DRG	MATL. & SPEC.	REMARKS
			NIL	NIL	NIL	NIL
NIL M	GROUP	ELECTRICAL	SUPERSEDES:		NIL	
WEIGHT	FILE	Z:\SKED-SBC\SKED-927.prt (2D)				
NIL KG		PANTRY LOAD			SCALE	SSE/EO
S.AREA		WIRING DIAGRAM OF SWITCH BAORD CABINET				CHD
NIL M²		(FOR LHB EOG NON-AC COACHES)				DRN
~~LENGTH/DIA~~						
NIL M		RAIL COACH FACTORY, KAPURTHALA			REF.DRG.No.	NIL
~~WIDTH/THICK.~~		रेलकोच फैक्टरीकपूरथला		IRS	PL NO.	NIL
NIL M						
HEIGHT					DRG.NO.	SKED-927
NIL M		SEE/D&D	DY.CEE/D&D		ALT.	NIL SIZE A1 SHEET 1/1

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



S1K15

=52/04.1 1 2
=52/04.1 3 4
5 6
13 14
=32/08.4 21 22

S1K16

=52/01.2 1 2
=52/01.2 3 4
=52/01.2 5 6
=52/01.2 7 8
=32/08.5 21 22
=32/08.6 43 44

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WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES:		NIL	
WEIGHT	FILE	Z:\SKED-SBC\SKED-928.prt (2D)				
NIL KG		COACH LIGHT CONTROL WIRING DIAGRAM OF SWITCH BOARD CABINET (FOR LHB EOG NON-AC COACHES)		SCALE	SSE/ED	
S.AREA					CHD	
NIL M²					DRN	
~~LENGTH/DIA~~						
NIL M		RAIL COACH FACTORY, KAPURTHALA		REF.DRG.No.	NIL	
~~WIDTH/THICK.~~						
NIL M		रेलकोच फैक्टरी कपूरथला IRS		PL NO.	NIL	
HEIGHT				DRG.NO.	SKED-928	
NIL M		SEE/D&D DY.CEE/D&D		ALT.	NIL SIZE A1 SHEET 1/1	

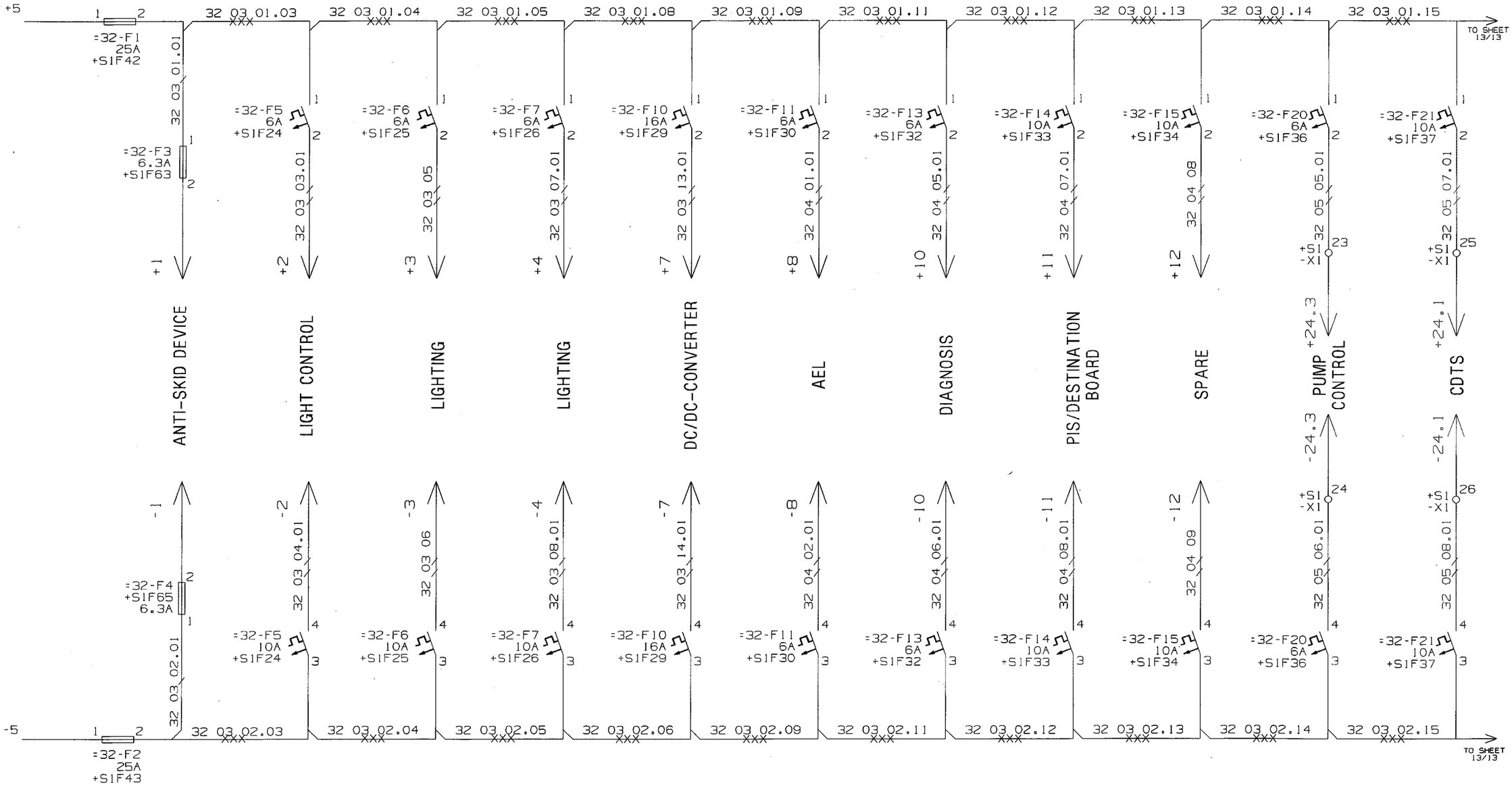
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NIL		NIL	NIL	NIL	NIL
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLT DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES:	NIL	
WEIGHT	FILE	Z:\SKED-SBC\SKED-929.prt (2D)			
NIL KG		BATTERY DISTRIBUTION WIRING DIAGRAM OF SWITCH BOARD CABINET (FOR LHB EOG NON-AC COACHES)	SCALE	SSE/ED	
S.AREA				CHD	
NIL M²				DRN	
~~LENGTH/DIA~~					
NIL M		RAIL COACH FACTORY, KAPURTHALA	REF.DRG.No.	NIL	
~~WIDTH/THICK.~~		रेल कोच फैक्ट्री कपूरथला IRS	PL NO.	NIL	
NIL M			DRG.NO.	SKED-929	
HEIGHT					
NIL M		SEE/D&D DY.CEE/D&D	ALT.	NIL SIZE A3 SHEET 1/1	

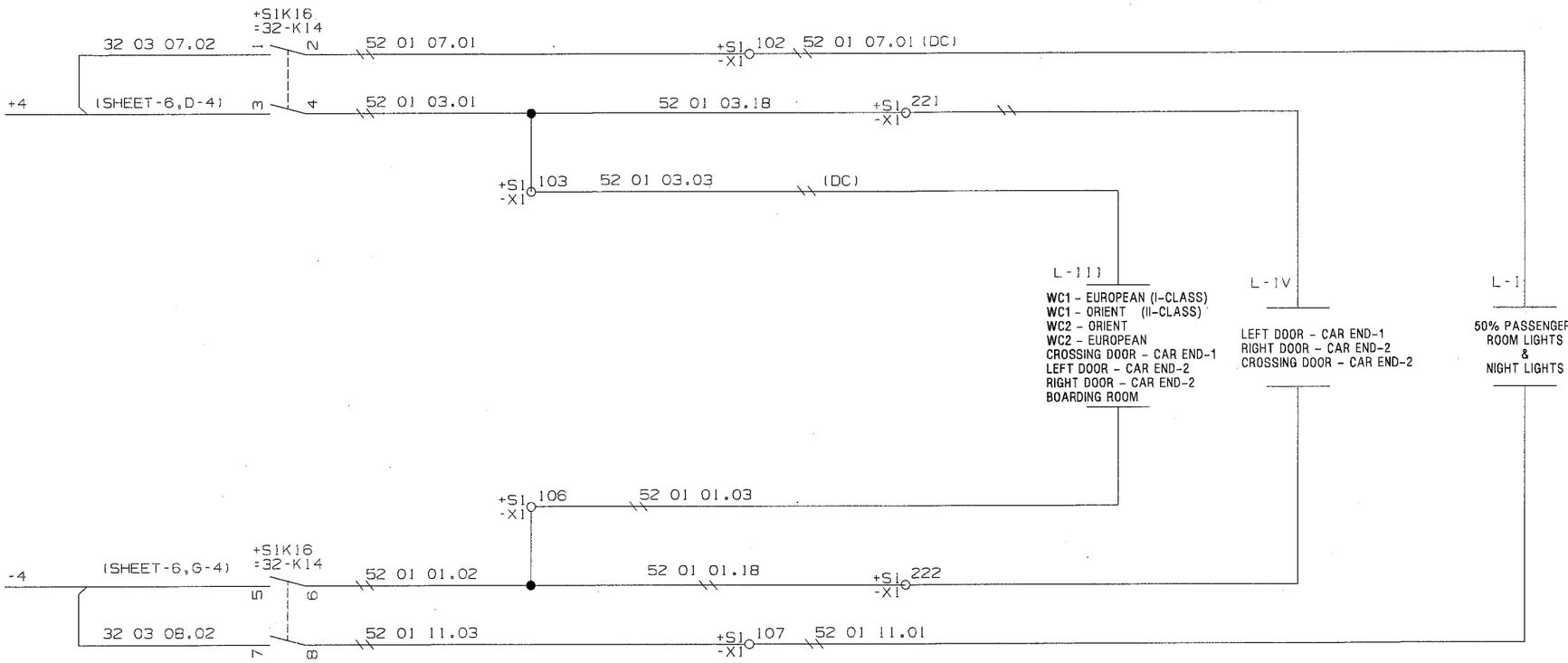
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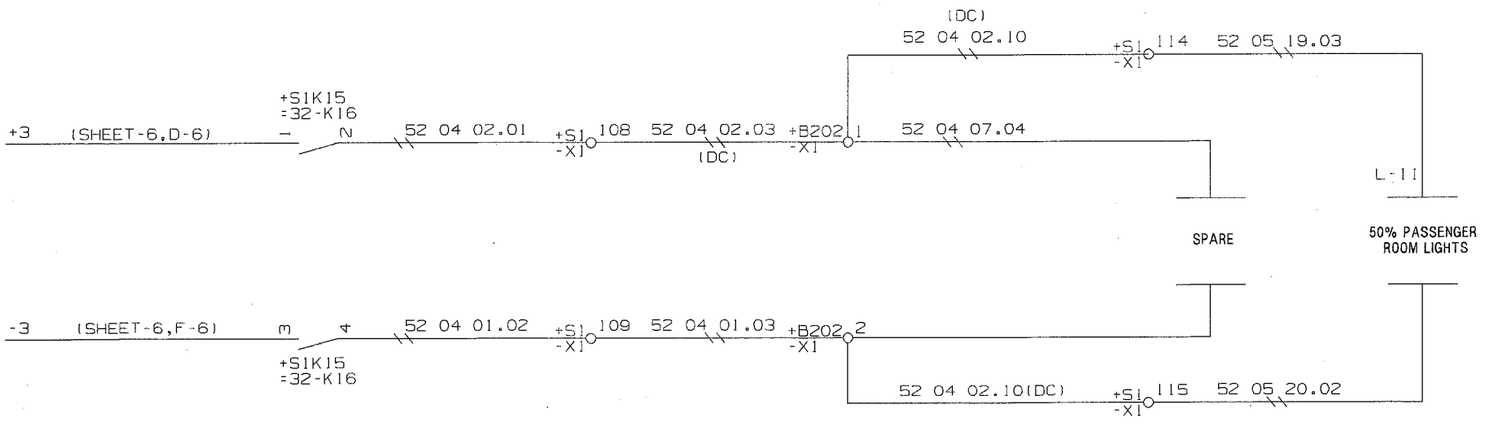
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NIL	NIL	NIL	NIL	NIL





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RAIL COACH FACTORY, KAPURTHALA.

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES:		NIL	
WEIGHT	FILE	Z:\SKED-SBC\SKED-930.prt (2D)				
NIL KG	COACH LIGHTING				SCALE	SSE/ED
S.AREA	WIRING DIAGRAM OF SWITCH BOARD CABINET					CHD
NIL M^2	(FOR LHB EOG NON-AC COACHES)					DRN
~~LENGTH/DIA~~	RAIL COACH FACTORY, KAPURTHALA				REF.DRG.No.	NIL
NIL M						
~~WIDTH/THICK.~~	रेलकोच फैक्टरी कपूरथला		IRS		PL NO.	NIL
NIL M					DRG.NO.	SKED-930
HEIGHT	SEE/D&D		DY.CEE/D&D		ALT. NIL	SIZE A SHEET 1/1
NIL M						

ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008

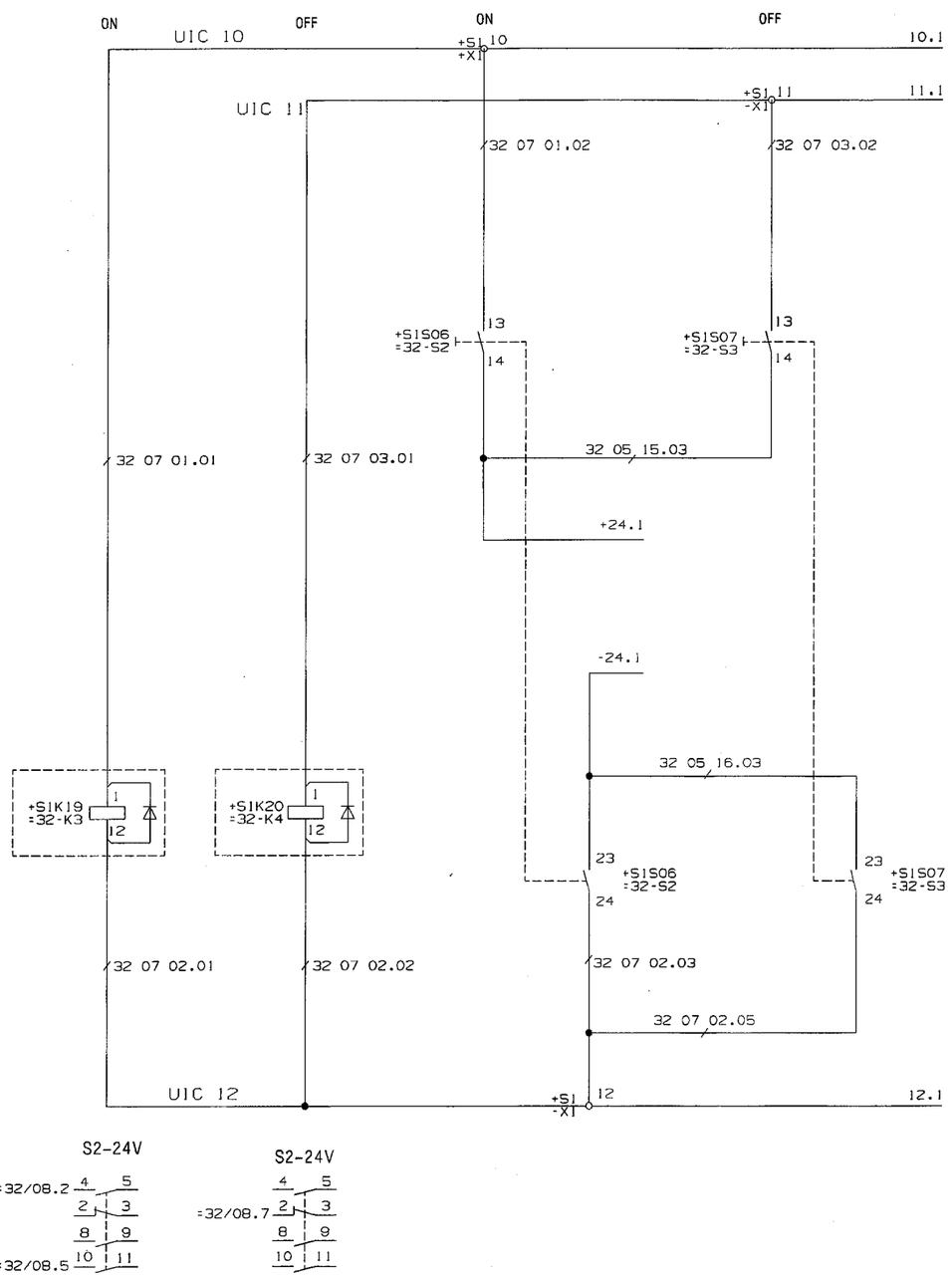
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DATE OF FIRST ISSUE 28/12/2023

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

UIC-LIGHT-REMOTE CONTROL

TRAIN LIGHT



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WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
		NIL	NIL	NIL	NIL	NIL
NIL M	GROUP	ELECTRICAL	SUPERSEDES:		NIL	
WEIGHT	FILE	Z:\SKED-SBC\SKED-931.prt (2D)				
NIL KG		UIC-REMOTE CONTROL			SCALE	SSE/ED
S.AREA		WIRING DIAGRAM OF SWITCH BOARD CABINET				CHD
NIL M²		(FOR LHB EOG NON-AC COACHES)				DRN
~~LENGTH/DIA~~						
NIL M		RAIL COACH FACTORY, KAPURTHALA			REF.DRG.NO.	NIL
~~WIDTH/THICK.~~		रेलकोच फैक्टरी कपूरथला		IRS	PL NO.	NIL
NIL M					DRG.NO.	SKED-931
HEIGHT		SEE/D&D		DY.CEE/D&D	ALT. NIL	SIZE A1 SHEET 1/1
NIL M						

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

190V 3 PHASE AC

FROM SHEET 1/J-19

12.02.20.01 → 12 02 20.01
12.02.21.01 → 12 02 21.01
12.02.22.01 → 12 02 22.01
12.02.19.01 → 12 02 19.01

FROM SHEET 6/A-19, 1-19

110 V DC (+VE)
110 V DC (-VE)

32 03 01.16 XXX
32 03 01.17 XXX
32 03 01.18 XXX
32 03 01.19 XXX

=32-F23 6A +S1F39
=32-F24 6A +S1F40
=32-F25 6A +S1F41
=32-F26 6A +S1F42

32 04 11.01
32 04 13.01
32 04 15.01
32 04 17.01

+S1 -X1 118
+S1 -X1 120
+S1 -X1 122

BLDC FANS
BLDC FANS
BLDC FANS
RCL

+S1 -X1 119
+S1 -X1 121
+S1 -X1 123

32 04 12.01
32 04 14.01
32 04 16.01
32 04 18.01

=32-F23 6A +S1F39
=32-F24 6A +S1F40
=32-F25 6A +S1F41
=32-F26 6A +S1F42

32 03 02.16 XXX
32 03 02.17 XXX
32 03 02.18 XXX
32 03 02.19 XXX

4 POLE RCBO, 16A,
240/415 V AC,
WITH SENSITIVITY 30mA

=33-F107 6A +S1F107
=33-F108 6A +S1F108
=33-F109 6A +S1F109

12 02 16.01
12 02 24.01
12 02 26.01

+S1 -X1 240
+S1 -X1 242
+S1 -X1 244

MOBILE CHARGING CIRCUIT-1
MOBILE CHARGING CIRCUIT-2
MOBILE CHARGING CIRCUIT-3

+S1 -X1 241
+S1 -X1 243
+S1 -X1 245

12 02 17.01
12 02 25.01
12 02 27.01

=33-F107 6A +S1F107
=33-F108 6A +S1F108
=33-F109 6A +S1F109

12 02 19.02
12 02 19.03
12 02 19.04

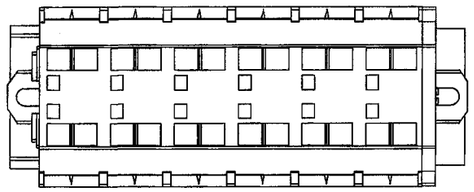
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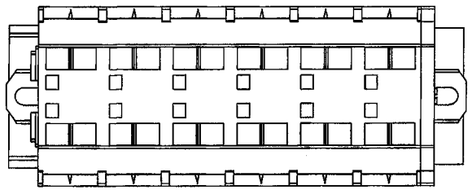
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	DPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES:		NIL	
WEIGHT	FILE	Z:\SKED-SBC\SKED-932.prt (2D)				
NIL KG	FANS & MOBILE CHARGING CIRCUIT WIRING DIAGRAM OF SWITCH BOARD CABINET (FOR LHB EOG NON-AC COACHES)				SCALE	SSE/ED
S.AREA						CHD
NIL M²						DRN
~~LENGTH/DIA~~	RAIL COACH FACTORY, KAPURTHALA				REF.DRG.No.	NIL
NIL M						
~~WIDTH/THICK.~~	रेलकोचफैक्टरीकपूरथला	IRS			PL NO.	NIL
NIL M					DRG.NO.	SKED-932
HEIGHT	SEE/D&D	DY.CEE/D&D			ALT.	NIL SIZE A1 SHEET 1/1
NIL M						

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

EXISTING TERMINAL BLOCKS

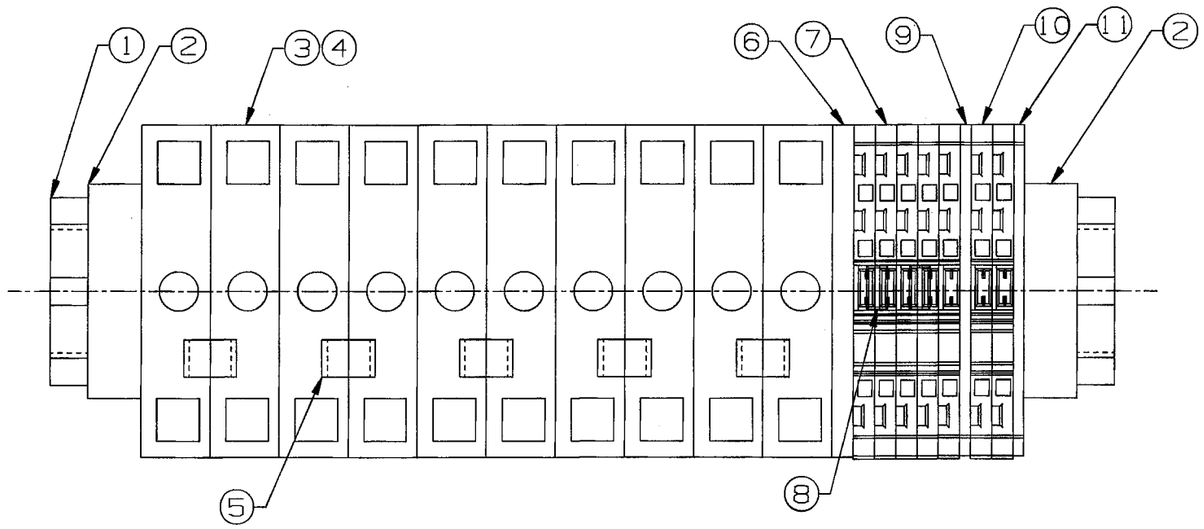


TERMINAL STRIP TO WAGO PART NO. 262-206
OR EQUIVALENT



TERMINAL STRIP TO WAGO PART NO. 262-206
OR EQUIVALENT

REVISED TERMINAL BLOCKS



BILL OF MATERIAL

S.NO.	ITEM	PART NO./STANDARD	QPC
1.	STEEL RAIL, L=200MM	210-112 OF M/S WAGO OR EQUIVALENT	01 NO.
2.	SCREWLESS END STOP	249-117 OF M/S WAGO OR EQUIVALENT	02 NOS.
3.	CAGE CLAMP TERMINAL	282-122 OF M/S WAGO OR EQUIVALENT	10 NOS.
4.	GLASS FUSE, 5X20MM, 1A	IEC127-74	10 NOS.
5.	ADJACENT JUMPER INSULATED	282-402 OF M/S WAGO OR EQUIVALENT	05 NOS.
6.	END & INTERMEDIATE PLATE	282-311 OF M/S WAGO OR EQUIVALENT	01 NO.
7.	3-CONDUCTOR GROUND TERMINAL BLOCK	279-687 OF M/S WAGO OR EQUIVALENT	05 NOS.
8.	ADJACENT JUMPER INSULATED	279-422 OF M/S WAGO OR EQUIVALENT	02 NOS.
9.	END & INTERMEDIATE PLATE, ORANGE	279-339 OF M/S WAGO OR EQUIVALENT	01 NO.
10.	3-CONDUCTOR THROUGH TERMINAL BLOCK	279-681 OF M/S WAGO OR EQUIVALENT	02 NOS.
11.	END & INTERMEDIATE PLATE, GREY	279-308 OF M/S WAGO OR EQUIVALENT	01 NO.

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008 | DATE OF FIRST ISSUE | 27/12/2023

WELD LENGTH	ITEN	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M			NIL	NIL	NIL	NIL
WEIGHT	GROUP	ELECTRICAL	SUPERSEDES: NIL			
NIL KG	FILE	Z:\SKED-933.prt (2D)				
S.AREA						
NIL M^2						
~~LENGTH / DIA~~						
NIL M						
~~WIDTH / THICK~~						
NIL M						
HEIGHT						
NIL M						

CAGE CLAMP TERMINALS
WITH GLASS FUSES (CABIN/CORRIDOR SIDE)
FOR LHB EOG NON AC COACHES

RAIL COACH FACTORY, KAPURTHALA

रेलकोचफैक्टरीकपूरथला | IRS

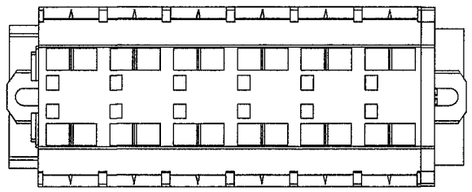
Bhim Jan SEE/D&D | DY.CEE/D&D

SCALE	SSE/ED	
	CHD	
	DRN	
REF.DRG.No.	CC72069, ALT-d	
PL NO.	NIL	
DRG.NO.	SKED-933	
ALT. NIL	SIZE A2	SHEET 1/1

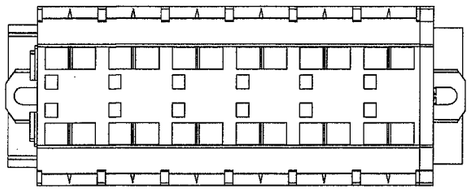
आरे कोच फैक्टरी / मध्यप्रदेश
RCF/RBL

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

EXISTING TERMINAL BLOCKS

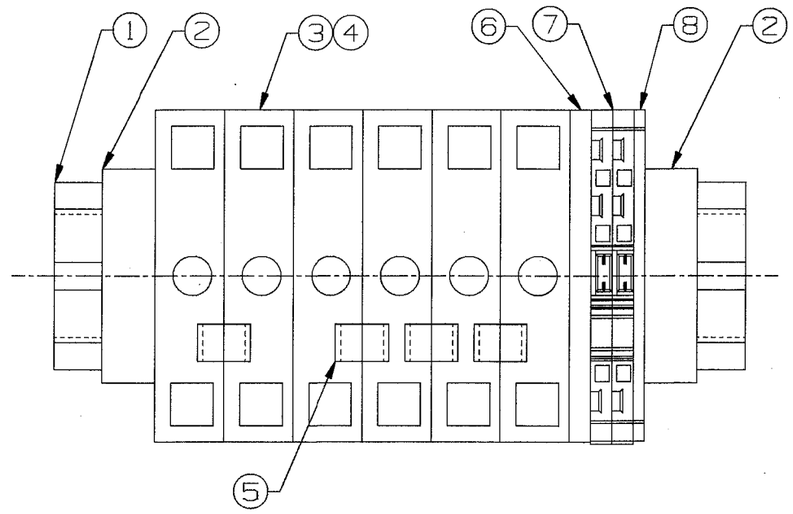


TERMINAL STRIP TO WAGO PART NO. 262-206
OR EQUIVALENT



TERMINAL STRIP TO WAGO PART NO. 262-206
OR EQUIVALENT

REVISED TERMINAL BLOCKS



BILL OF MATERIAL

S.NO.	ITEM	PART NO./STANDARD	QPC
1.	STEEL RAIL, L=130MM	210-112 OF M/S WAGO OR EQUIVALENT	01 NO.
2.	SCREWLESS END STOP	249-117 OF M/S WAGO OR EQUIVALENT	02 NOS.
3.	CAGE CLAMP TERMINAL	282-122 OF M/S WAGO OR EQUIVALENT	06 NOS.
4.	GLASS FUSE, 5X20MM, 1A	IEC127-74	06 NOS.
5.	ADJACENT JUMPER INSULATED	282-402 OF M/S WAGO OR EQUIVALENT	04 NOS.
6.	END & INTERMEDIATE PLATE	282-311 OF M/S WAGO OR EQUIVALENT	01 NO.
7.	3-CONDUCTOR GROUND TERMINAL BLOCK	279-687 OF M/S WAGO OR EQUIVALENT	05 NOS.
8.	END & INTERMEDIATE PLATE, ORANGE	279-339 OF M/S WAGO OR EQUIVALENT	01 NO.

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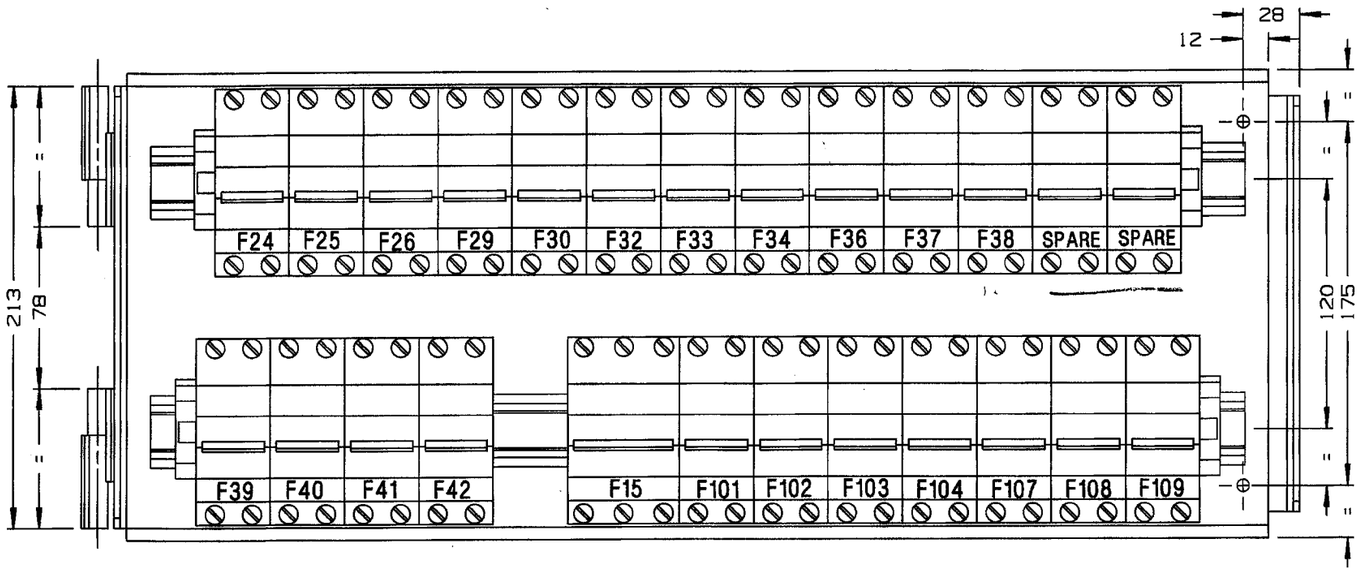
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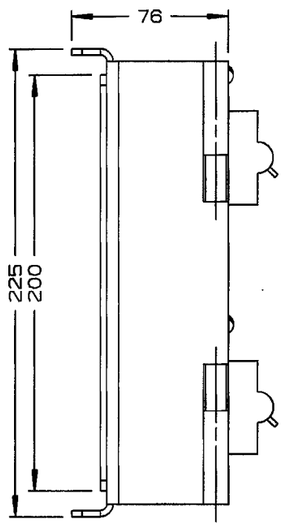
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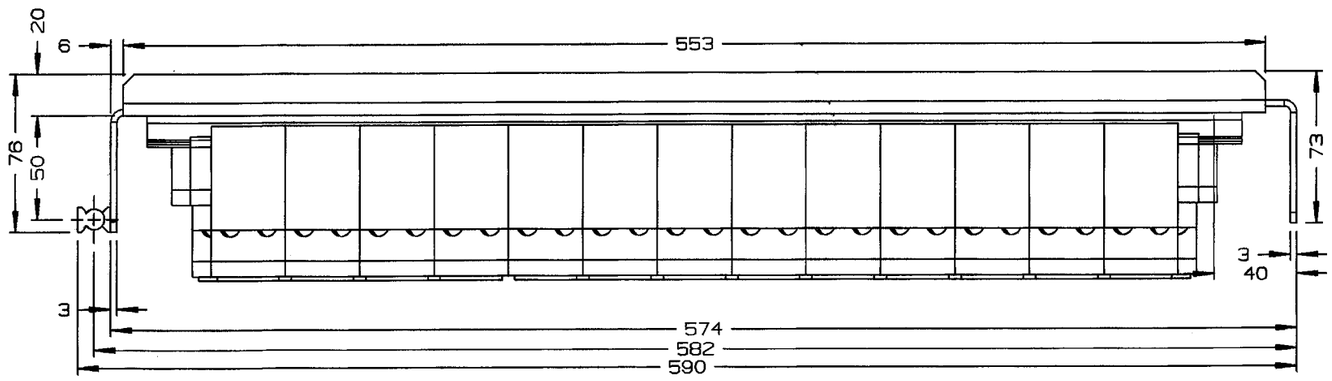
FOR UNTOLERANCED DIMENSIONS REFER MDG0008 | DATE OF FIRST ISSUE 28/12/2023

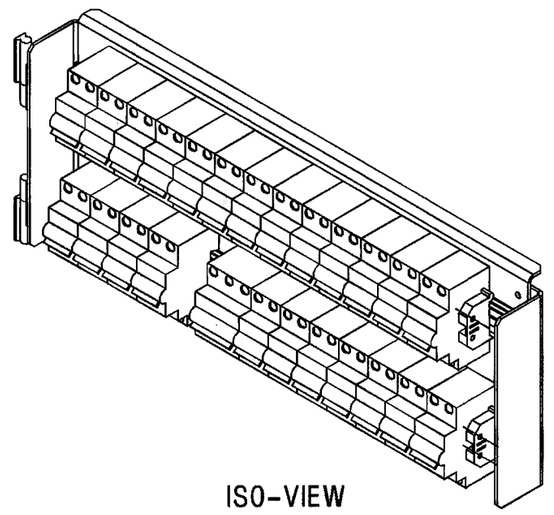
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M			NIL	NIL	NIL	NIL
	GROUP	ELECTRICAL	SUPERSEDES: NIL			
WEIGHT	FILE	Z:\SKED-934.prt (2D)				
NIL KG		CAGE CLAMP TERMINALS WITH GLASS FUSES (DOORWAY AREA) FOR LHB EOG NON AC COACHES			SCALE	SSE/ED
S.AREA						CHD
NIL M²						DRN
~~LENGTH / DIA~~						
NIL M		RAIL COACH FACTORY, KAPURTHALA			REF.DRG.No.	CC72070,ALT-c
~~WIDTH / THICK~~		रेल कोच फैक्टरी कपूरथला		IRS	PL NO.	NIL
NIL M					DRG.NO.	SKED-934
HEIGHT					ALT.	NIL SIZE A2 SHEET 1/1
NIL M		SEE/D&D		DY.CEE/D&D		

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









ISO-VIEW

NOTE:- 1. ALL DIMENSIONS IN MM.

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

THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008 | DATE OF FIRST ISSUE 28/12/2023

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES:	NIL		
WEIGHT	FILE	D:\BKRM\SKED\sked-935s1.prt				
NIL KG						
S.AREA						
NIL M²						
~~LENGTH / DIA~~						
NIL M						
~~WIDTH / THICK~~						
NIL M						
HEIGHT						
NIL M						

MCB HOLDER
FOR SWITCH BOARD CABINET

(IN REF. TO CAI. NO. ED/CAI/026, ED/CAI/027, ED/CAI/028)

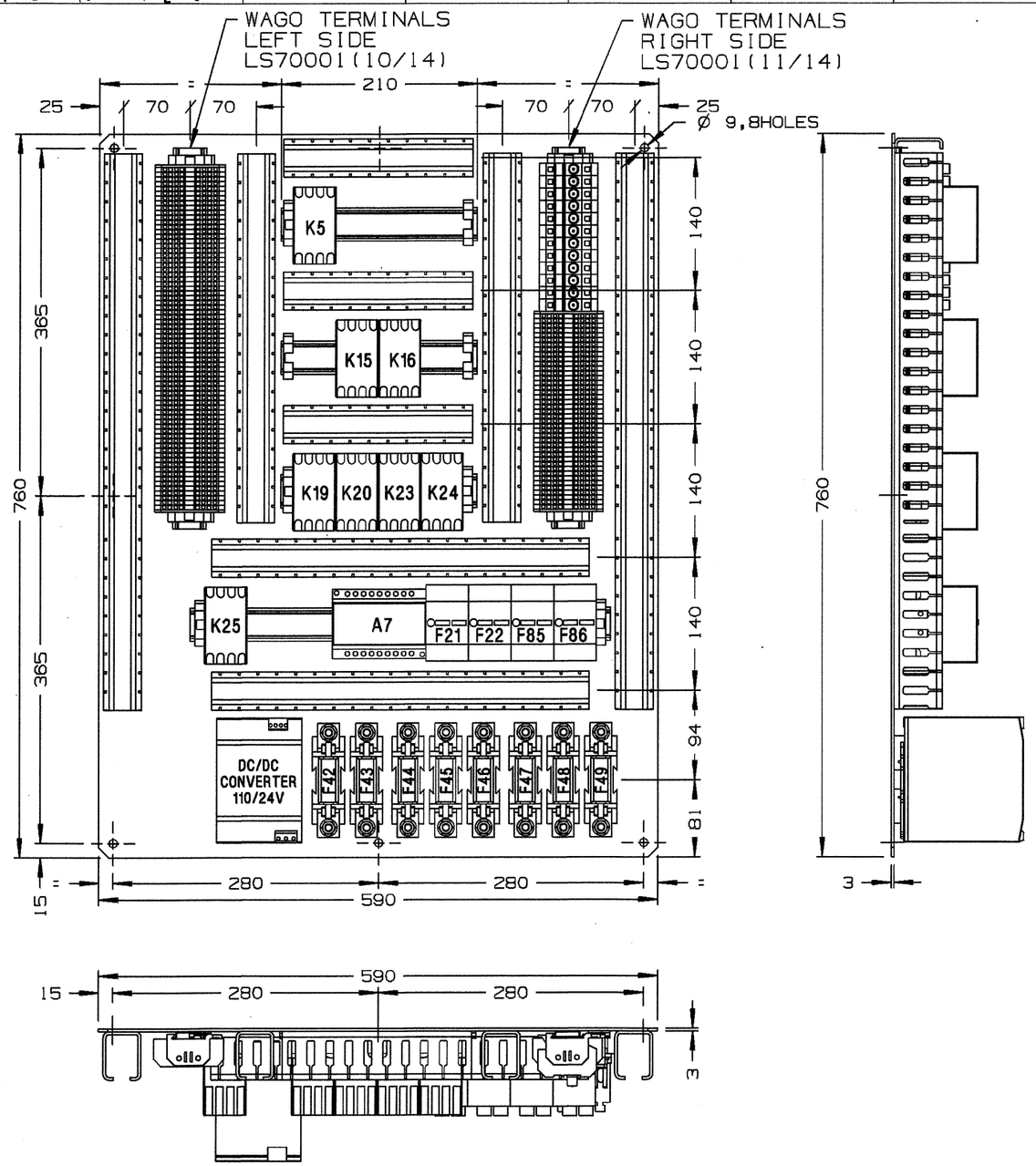
RAIL COACH FACTORY, KAPURTHALA

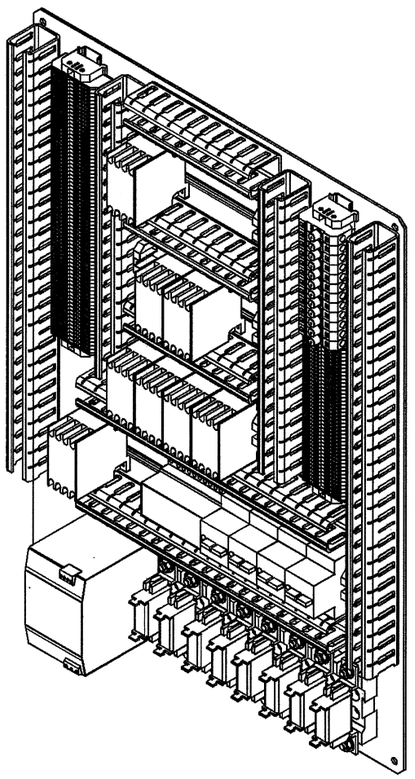
रेल कोच फैक्टरी कपूरथला | IRS

SEE/D&D | DY.CEE/D&D

SCALE	SSE/ED	
	CHD	
	DRN	
REF.DRG.NO.	NIL	
PL NO.	NIL	
DRG.NO.	SKED-935	
ALT. NIL	SIZE A3	SHEET 1/2

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





ISO-VIEW

NOTE:- 1. ALL DIMENSIONS IN MM.
2. REF. DRG. NO.LS70201 (SHEET-3/14).
3. S1K11,S1K8,S1K13,S1K14,S1K17,S1K48 & S1A6 DELETED.

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

THIS IS A COMPUTER GENERATED DRAWING. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER IT INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008 | DATE OF FIRST ISSUE 28/12/2023

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL M	GROUP	ELECTRICAL	SUPERSEDES: NIL			
WEIGHT	FILE	D:\BKRM\SKED\sked-935s2.prt				
NIL KG						
S.AREA						
NIL M^2						
~~LENGTH / DIA~~						
NIL M						
~~WIDTH / THICK~~						
NIL M						
HEIGHT						
NIL M						

EQUIP.BACK MOUNTING PLATE
FOR SWITCH BOARD CABINET
(IN REF. TO CAI. NO. ED/CAI/026, ED/CAI/027, ED/CAI/028)

RAIL COACH FACTORY, KAPURTHALA

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SEE/D&D | DY.CEE/D&D

SCALE	SSE/ED	
	CHD	
	DRN	
REF.DRG.NO.	NIL	
PL NO.	NIL	
DRG.NO.	SKED-935	
ALT. NIL	SIZE A3	SHEET 2/2