

SWITCH PLATE ASSEMBLY ALONG WITH USB & 3-PIN MOBILE CHARGING SOCKET FOR LHB EOG NON-AC LGS, LSCN, LWSCZ, LSLRD, 3-PHASE MEMU (DMC/TC) & LHB SG CHAIR CAR COACHES.

This document incorporates the provision of Switch Plate Assembly with Type -A & C USB Mobile Charging Socket & 3-pin Socket 6A, 250V AC with 02 nos. 1.0 Amp Glass fuses (with fuse holders) for provision on either side of each cabin in LHB EOG Non-AC LGS, LSCN, LWSCZ, LSLRD, 3-Phase MEMU (DMC/TC) & LHB SG Chair Car Coaches.

Table -1: For LHB EOG NON-AC LGS Coaches. (With Wider Windows).

SN	Description	Qty.	Marking on switches	Ref. Drg. No.
	Switch plate assembly complete with polycarbonate cover frame and powder coated	01 set	,	Drg. No.
1	steel plate with 03 nos. ON-OFF switches and 01 no. Type-A & C USB Mobile Charging Socket with 02 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	(01 set comprising 10 switch plates)	F, F, CS	CC74262 Alt-'Nil', Item-1
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 nos. ON-OFF switches and 01 no. Type-A & C USB mobile charging socket with 02 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders).	01 set (1 set comprising 10 switch plates)	F,CS	Drg. No. CC74262 Alt-'Nil', Item-2
3	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 nos. ON-OFF switches, 01 no. Type-A & C USB mobile charging socket & 01 no. 3-pin socket 6A,250V AC with 04 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	01 set (01 set comprising 10 switch plates)	CS,CS	Drg. No. CC74262 Alt-'Nil', Item-3

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> Table -2:- For LHB EOG NON-AC LSCN Coaches (Without Wider Windows).

SN	Description	Qty.	Marking on switches	Ref. Drg. No.
	Switch plate assembly complete with polycarbonate cover frame and powder coated	01 Set	,	Dra No
1	steel plate with 02 nos. ON-OFF switches, 01 no. Type-A & C USB mobile charging socket & 01 no. 3-pin socket 6A, 250V AC with 04 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	(1 set comprising 10 switch plates)	CS, CS	Drg. No. CC74262 Alt-'Nil', Item-3
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 04 nos . ON-OFF switches and 01 no . Type-A & C USB mobile charging socket with 02 nos . 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	01 Set (1 set comprising 10 switch plates)	L,F F,CS	Drg. No. CC74262 Alt-'Nil', Item-4
3	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 04 nos . ON-OFF switches and 01 no . Type-A & C USB mobile charging socket with 02 nos . 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders).	01 Set (1 set comprising 10 switch plates)	L, F NL, CS	Drg. No. CC74262 Alt-'Nil', Item-5

> Table-3 :- For LHB EOG NON-AC LSCN Coaches (With Wider Windows).

SN	Description	Qty.	Marking on switches	Ref. Drg.
	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 04 nos . ON-OFF switches and 01	01 Set	L.F	Drg. No.
1	no. Type-A & C USB mobile charging socket with 02 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/	comprising 10 switch	F,CS	Alt-'Nil',
	Cooper Bussmann/equivalent* (with fuse holders)	plates)		ILCIII-4

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	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 04 nos. ON-OFF switches and 01	01 Set		Drg. No.
2	no. Type-A & C USB mobile charging socket with 02 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders).	(1 set comprising 10 switch plates)	L, F NL, CS	CC74262 Alt-'Nil', Item-5
3	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 nos. ON-OFF switches, 01 no. Type-A & C USB Mobile Charging Socket & 01 no. 3-pin socket 6A, 250V AC with 04 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	01 set (1 set comprising 10 switch plates)	CS,CS	Drg. No. CC74262 Alt-'Nil', Item-3

> Table-4 :- For LHB EOG NON-AC LSLRD Coaches (With Wider Windows)

SN	Description	Qty.	Marking on switches	Ref. Drg.
	Switch plate assembly complete with polycarbonate cover frame & powder coated steel	01 Set		Drg. No.
1	plate with 03 nos. ON-OFF switches and 01 no. Type -A & C USB mobile charging socket with 02 nos. 1.0 Amp. Glass fuses of M/s Ferraz Shawmut/Cooper Bussmann/ equiv.* (with fuse holders).	(01 set comprising 04 switch	F,F CS	CC74262 Alt-'Nil', Item-1
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 no. ON-OFF switch and 01 no. Type -A & C USB mobile charging socket with 02 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/Cooper Bussmann/equivalent* (with fuse holders)	plates) 01 Set (1 set comprising 04 switch plates)	F, CS	Drg. No. CC74262 Alt-'Nil', Item-2
3	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 nos. ON-OFF switches and 01 no. Type -A & C USB mobile charging socket & 01 no. 3-pin socket 6A,250V AC with 04 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/ equiv.* (with fuse holders)	01 Set (01 set comprising 04 switch plates)	CS,CS	Drg. No. CC74262 Alt-'Nil', Item-3

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	polycarbonate cover frame & powder coated steel		L,F	Drg. No.
1	plate with 03 nos. ON-OFF switches and 01 no.	(01 set	CS	CC74262
	Type -A & C USB mobile charging socket with 02	comprising	(Marking	Alt-'Nil',
	nos. 1.0 Amp. Glass fuses of M/s Ferraz Shawmut/	04 switch	Different)	Item-1
,	Cooper Bussmann/ equiv.* (with fuse holders).	plates)		

Fable-5: For LHB EOG NON-AC Chair Car Coaches (With Wider Windows)

SN	Description	Qty.	Marking on switches	Ref. Drg.
1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 03 nos. ON-OFF switches and 01 no. Type -A & C USB mobile charging socket with 02 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/ equiv.* (with fuse holders)	01 Set (01 Set comprising 18 switch plates)	F, F, CS	Drg. No. CC74262 Alt-'Nil', Item-1
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 nos. ON-OFF switches, 01 no. Type -A & C USB Mobile Charging Socket & 01 no. 3-pin socket 6A,250V AC with 04 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	01 Set (01 set comprising 18 switch plates)	cs,cs	Drg. No. CC74262 Alt-'Nil', Item-3

> Table-6:- For 3-Phase MEMU (DMC/TC) Coaches.

SN	Description	Qty.	Marking on switches	Ref. Drg.
1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 nos. ON-OFF switches, 01 no. Type-A & C USB mobile charging socket & 01 no. 3-pin socket 6A,250V AC with 04 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	01 No.	CS,CS	Drg. No. CC74262 Alt-'Nil', Item-3

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Table-7:- For LHB SG Chair Car Coaches.

SN	Description	Qty.	Marking on switches	Ref. Drg.
1	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 03 nos. ON-OFF switches and 01 no. Type -A & C USB mobile charging socket with 02 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	01 Set (01 set comprising 18 switch plates)	F,F, CS	Ðrg. No. CC74262 Alt-'Nil', Item-1
2	Switch plate assembly complete with polycarbonate cover frame and powder coated steel plate with 02 nos. ON-OFF switches, 01 no. Type -A & C USB mobile charging socket & 01 no. 3-pin socket 6A, 250V AC with 04 nos. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Cooper Bussmann/equivalent* (with fuse holders)	01 Set (01 set comprising 18 switch plates)	cs,cs	Drg. No. .CC74262 Alt-'Nil', Item-3

^{*} Equivalent with the approval from the office of CEDE/RCF.

Packing conditions of switch plates shall be as follows:

- Stage 1: Standard packing of switch plates mentioned above as per packing conditions document no. PI042.
- Stage 2: Packing per coach set as per packing conditions document no. Pl021. Each packing shall be legibly marked for the Type of coach applicable for.
- Stage 3: Bulk packing coach wise as per packing conditions document no. Pl032. Each packing shall be legibly marked for the Type of coach/coaches applicable for.

<u>N.B</u>:

- i. Firm shall get prototype sample approved from CEDE/RCF before commencing bulk supply.
- ii. Switches shall be conforming to IS: 3854-1997 and Socket shall be conforming to IS:1293-2019 or latest. Both shall be 'ISI' marked.
- iii. Wiring for switch, socket to be provided with 1.5 sq. mm e-beam cable to specification no. ELRS/SPEC/ELC/0019, latest applicable & procured from RDSO approved sources only.

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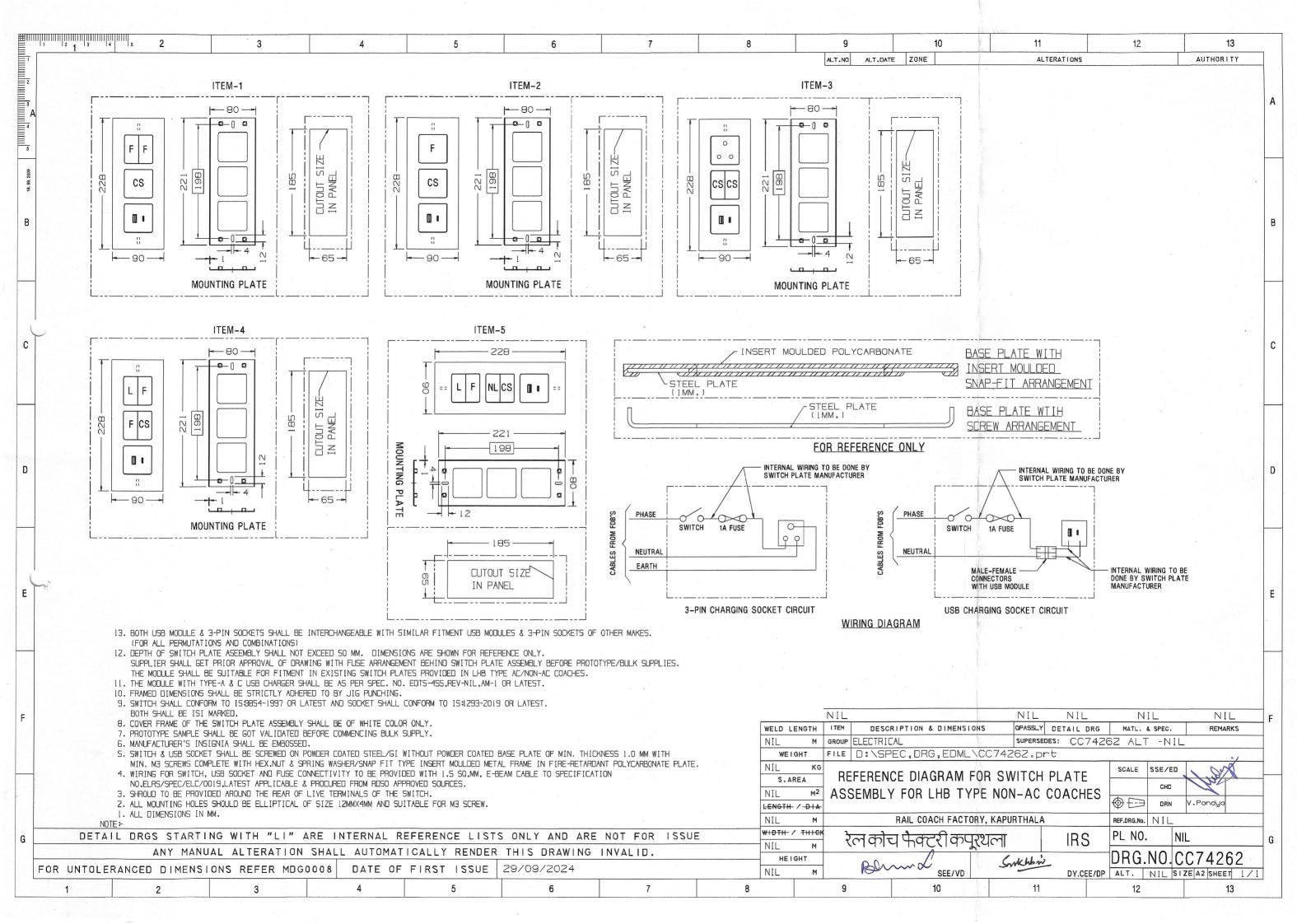
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- iv. For Contact opening in Switch, Normal Gap Construction shall be followed as per Clause No. 7.1.2 of IS: 3854-1997.
- v. 3-pin mobile charging socket without locking arrangement/shutter shall be provided.
- vi. Wiring terminal details:- Terminals for connection of wires shall be provided as per the following detail. For LHB EOG type SCN coaches (with wider windows):-1.0 A fuse in Phase only & 1.0 A fuse spare.
- vii. Method of Activation of Switch shall be of Rocker Type as per Clause No. 7.1.5 of IS: 3854-1997.
- viii. Switch shall be installed as per Design A mentioned in the Clause No. 7.1.7 of IS: 3854-1997.
- ix. Switch and Socket shall be screwed Type on powder coated steel/GI without powder coated base plate of minimum thickness 1.0 mm with M3 screws with nut and spring washer/Snap fit modular Type with insert moulded metal frame in fire retardant polycarbonate plate.
- x. The Module with Type-A & C USB Charger shall conform to spec. no. EDTS-455, Rev-Nil, Am-1, Corr-1.
- xi. Dimensions are shown for reference only. Supplier shall get prior approval of Drawing before Prototype/ bulk supplies. The Module shall be suitable for fitment in existing switch plates provided in LHB Type AC/Non-AC Coaches.

Tests:

Following test shall be conducted from Govt. / NABL accredited lab:-

- 1. Test for Polymer identification of FR polycarbonate material.
- 2. Fire retardant test to grade UL-94 V0 from the OEM of the raw material.

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CORR-1 FOR SWITCH PLATE ASSEMBLY ALONG WITH USB & 3-PIN MOBILE CHARGING SOCKET FOR LHB EOG NON-AC LGS, LSCN, LWSCZ, LSLRD, 3-PHASE MEMU (DMC/TC) AND LHB SG CHAIR CAR COACHES

This document is prepared to EDML-242, Rev-Nil for removal of spare/extra 1.0 Amp. Glass fuses (with holders) in Switch plate assemblies with Type - A & C USB type Mobile Charging Socket & 3-pin Socket 6A, 250V AC for LHB EOG Non AC LGS, LSCN, LWSCZ, LSLRD, 3-Phase MEMU (DMC/TC) and LHB SG Chair Car Coaches.

1. Spare 1.0 Amp Glass fuse (with fuse holders) in Switch plate assemblies each with Type - A & C USB type Mobile Charging Socket & 3-pin Socket 6A, 250V AC stands deleted. i.e. Only 01 No. 1.0 Amp Glass fuses of M/s Ferraz Shawmut/ Copper Bussmann/ equivalent* (with fuse holders) is to be provided each for Type - A & C USB type Mobile Charging Socket & 3-pin Socket 6A, 250V AC. This is applicable for Table-1, 2, 3, 4, 5, 6 and 7.

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