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भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226011

Government of India - Ministry of Railways
Research Designs & Standards
Organisation LUCKNOW - 226011

Dated 18.10.2005

No. EL/1.2.9.1

Chief Electrical Engineer,

- Central Railway, Mumbai CST- 400 001.
- Eastern Railway, Fairlie Place, Kolkata- 700 001.
- East Cost Railway, Chandrashekharapur, Bhubaneswar- 751 016.
- Northern Railway, Baroda House, New Delhi-110 001.
- North Central Railway, Hasting Road, Allahabad-211 001.
- Southern Railway, Park Town, Chennai-600 003.
- South Central Railway, Rail Nilayam, Secunderabad -500 017.
- South Eastern Railway, Garden Reach, Kolkata -700 043.
- South Western Railway, Hubli.
- Western Railway, Churchgate, Mumbai-400 020.
- West Central Railway, Jabalpur-482001.
- South East Central Railway, Bilaspur-495004.
- East Central Railway, Hazipur-844101 (Bihar).
- North Western Railway, Jaipur-302006.
- Chittaranjan Locomotive Works, Chittaranjan- 713 331.

26731

MODIFICATION SHEET No. ELRS/MS/ 0341, REV. '0'

This modification is to be implemented together with the modification suggested by RDSO vide this office released modification no ELRS/MS/0335, Rev. '0' dated 28.01.2005 and suitable instructions issued.

1.0 TITLE :

- (i) Modification for removal of BLSI Switches in Static Converter fitted AC Locos.
- (ii) Indication in leading loco in case of failure of Static Inverter of trailing loco in multiple.

2.0 OBJECT:

To establish uniformity between locomotives provided with Static Converter and Arno, with regard to operation of closing / opening of circuit breaker and to avoid failure of Static converter Loco due to wrong sequence of operation followed by driver.

To get group lamp indication in leading loco in case of failure of Static Inverter of trailing loco in multiple operation.

3.0 WORKS TO BE CARRIED OUT :

- a) The spare normally close (N/C) interlock of QV 60 is to be incorporated in Static Converter control circuit.
- b) The BL₁SI & BL₂ SI switches are to be disconnected from BL switch box and in place of BL₁SI & BL₂ SI normally close interlock of QV60 is to be connected as indicated in the enclosed schematic.

- c) Cable No. 746, which is coming from QSVM & BLVMT branch, is to be directly connected in normally close interlock of QV60.
- d) The BLSI interlock, which is in series with Q118 circuit, is to be withdrawn, which was provided in Static Converter fitted Locomotives as per RDSO Modification Sheet No. ELRS/MS/0311, Rev. '2' dated 30.05.2003 which should be withdrawn by all sheds.
- e) Normally close interlock of QCON relay to be provided in series with the QVLSOL relay in parallel with NC/NO interlocks of QV60, QV61, QV63 & QV 64 relays for group indication lamp.

4.0 APPLICATION TO CLASS OF LOCOMOTIVES:

All Electric Locomotives provided with Static Converter.

5.0 MATERIAL REQUIRED :

Nil

6.0 MATERIAL RENDERED SURPLUS :

BLSI Switch of both the cabs.

7.0 REFERENCES:

Suggestions received from ELS/CNB vide their letter No.230-Elec/TRS/CNB/Tech-84 dt.10.5.05 and subsequent tests & trials conducted by RDSO in Static Converter fitted Locomotives based at ELS/CNB.

8.0 MODIFICATION DRAWING :

Drg. Nos. SKEL-4698 Rev,'0' & SKEL-4699,Rev.'0' .

9.0 AGENCY FOR IMPLEMENTATION :

Electric Loco Sheds, POH Workshops & CLW - for Static Converter fitted Locomotives.

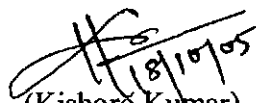
10.0 DISTRIBUTION :

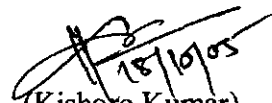
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Encl : Drg. Nos. SKEL-4698 Rev,'0' &
SKE- 4699,Rev.'0' .

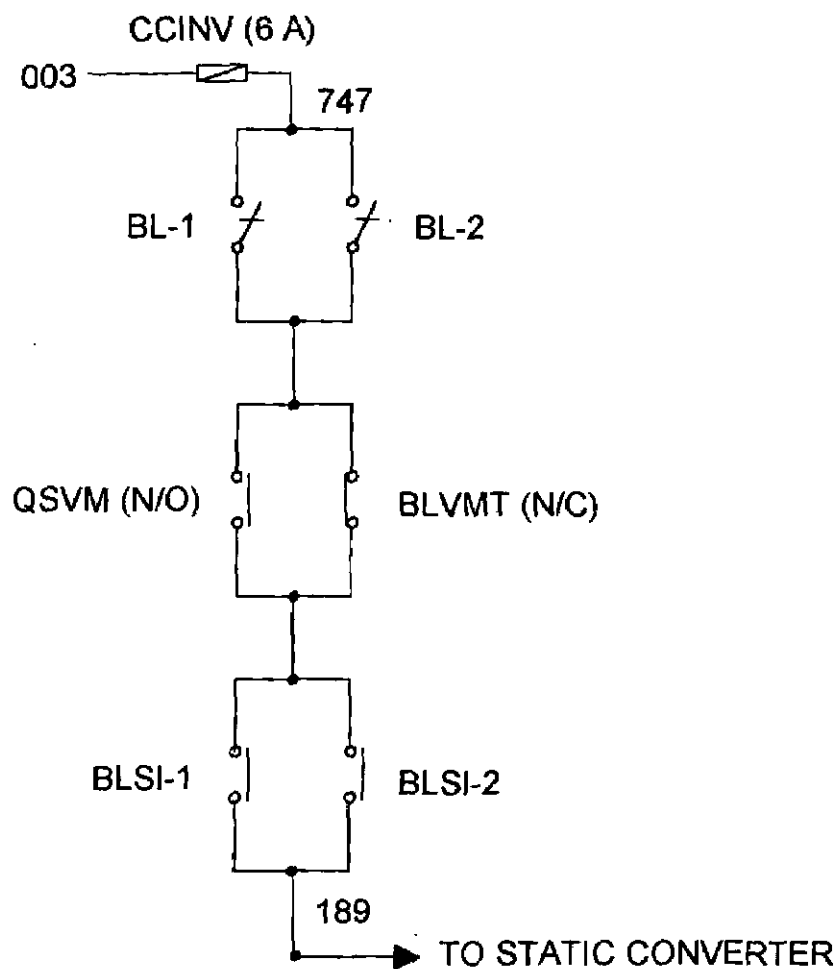
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SKEL-4699,.Rev.'0'

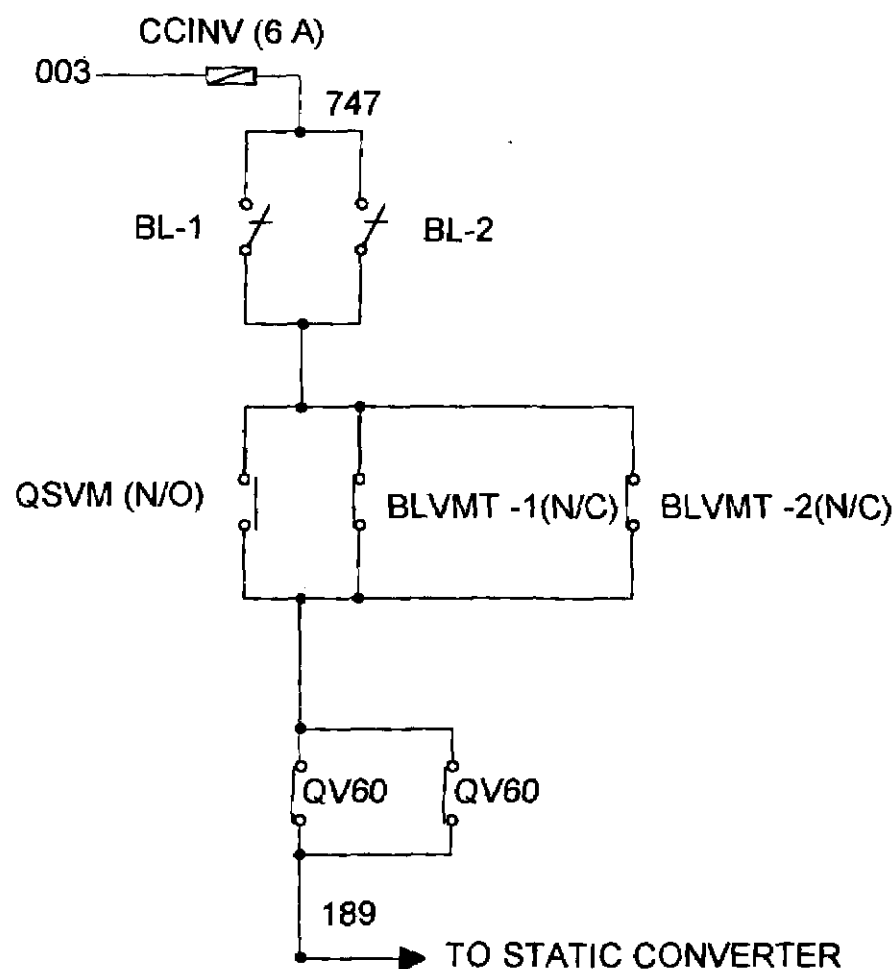

(Kishore Kumar)
for Director General/Elect.


(Kishore Kumar)
for Director General/Elect.

26732



EXISTING



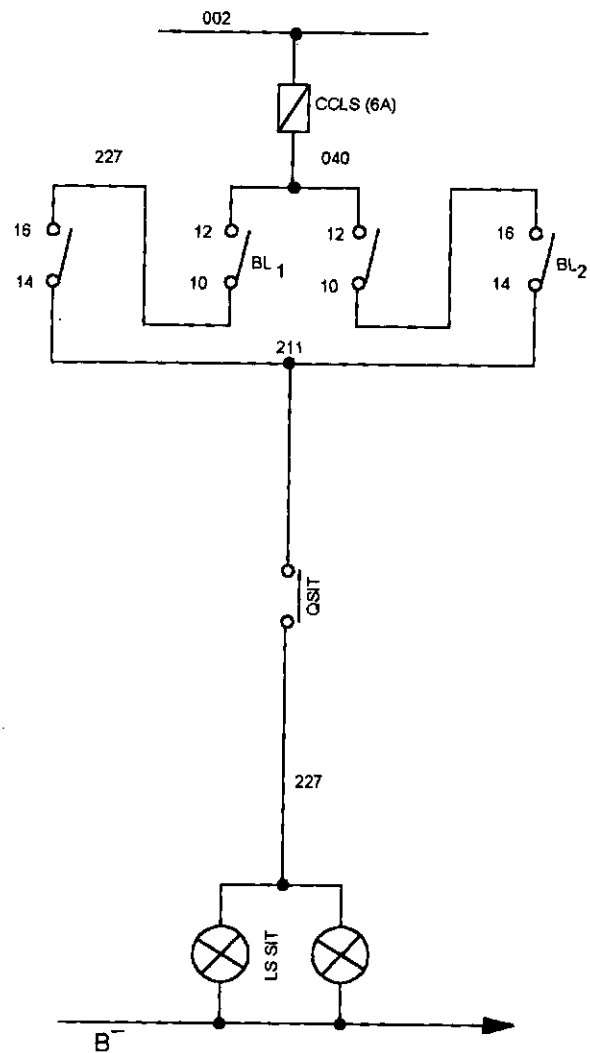
MODIFIED

REF: MODIFICATION SHEET No. ELRS/MS/0341, Rev. 01

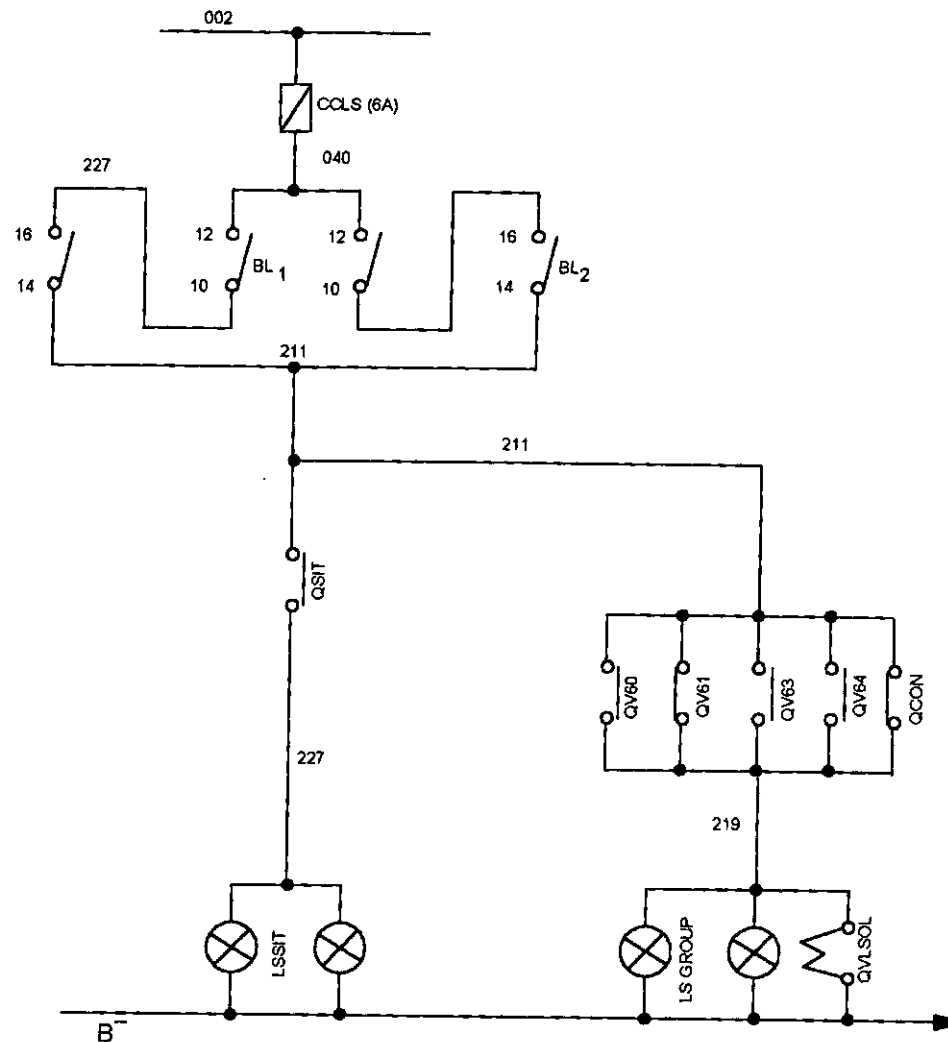
| REF. NO. | PART NO. | DESCRIPTION | DETAIL DRG. NO. | NO/LOCO | MATL. | SPEC. |
|--|----------|-------------|-----------------|----------|----------|--------------------------|
| REF. - | | | SCALE - N.T.S. | APPD. BY | (FOR DG) | |
| MODIFIED CONTROL CIRCUIT OF STATIC CONVERTER LOCOS | | | | | | FIRST ISSUED - OCT. 2005 |
| RDSO. ELECT. DTE | | | | | | SUPERSEDES - |
| SKEL-4698, Rev. 0 | | | | | | SUPERSEDED BY - |

| | |
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| Dt. | 03.10.2005 |
| D. | K.P. NIGAM |
| C. | R. Dasgupta |
| T. | |

| STATUS | ALT | REF. NO. | DESCRIPTION | APPD. BY | DATE |
|--------|-----|----------|-------------|----------|------|
| | | | | | |



EXISTING (LAMP CIRCUIT)



MODIFIED (LAMP CIRCUIT)

REF:- MODIFICATION SHEET No. ELRS/MS/0341, Rev. 0

| REF. NO. | PART NO. | DESCRIPTION | DETAIL DRG. NO. | NO/LOCO | MATL. | SPEC. |
|---|----------|-------------|-----------------|----------|-----------------------------|-------|
| REF:- | | | SCALE- N.T.S. | APPD. BY | (FOR DCR) | |
| LAMP INDICATION OF STATIC CONVERTER FITTED LOCOMOTIVES | | | | | FIRST ISSUED - OCT. 2005 | |
| | | | | | SUPERSEDES - | |
| RDSO. ELECT. DTE | | | | | SUPERSEDED BY - | |
| SKEL-4699, REV 0 | | | | | | |

| STATUS | ALT | REF. NO. | DESCRIPTION | APPD. BY | DATE |
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| Dt. | 04.10.2005 |
| D. | K.P. NIGAM |
| C. | R. Dasgupta |
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