

INDIAN RAILWAYS
CENTRE FOR DESIGN & DEVELOPMENT
CHITTARANJAN LOCOMOTIVE WORKS

PO: Chittaranjan, West Bengal. PIN: 713331
Fax: (+91) 341-2526153, Ph: (+91) 341-2525550



No. C-D&D/T/21, Vol. II

Date: As signed

M/s ABB India Limited
21st floor, World Trade Centre,
Dr. Rajkumar Road, Malleshwaram
West Bangalore- 560001 Karnataka, India

Sub: Regular approval of s/w ver. 56 for Redesigned Traction Converter and S/w Version 98 for redesigned Auxiliary Converter.

Ref: (i) M/s ABB ref no. ABB/4118/CLW/PE/0102 dated 11.04.2025

(ii) M/s ABB Ref no. ABB/4118/CLW/PE/103 dated 11.04.2025

1. Vide letter under reference above M/s ABB has released software version 56 for Redesigned Traction Converter and S/w Version 98 for redesigned Auxiliary Converter. In this following modification has been carried out:

- Line contactor operation of both converters synchronized during trip by considering feedback of faulty converter via P2P link, with hardware DI as a backup if P2P link fails which solves the issue of Time out dc link pre-charge during neutral section
- Changes done in logic of converter coolant flow and transformer pressure logic for incorporating the energy saving scheme in line with RDSO modification sheet 482.
- AUX Converter-1 default slope rate has been changed to give the inverter softer start when all AUX are in healthy state. In case of AUX Converter-1 isolation, same slope rate is dynamically assigned to AUX Converter-2 this solve the issue of DC link overvoltage during Neutral section in locos with modified weight of impellers of OCU.
- Spurious battery charger trip message recorded on DDS, transient recorder generation in AUX converter for retrieving background environment data to identify the cause of the issue is implemented.

2. The aforesaid software has already been successfully validated at ELS/Erode. Hence regular approval of software version 56 for Redesigned Traction Converter and S/w Version 98 for redesigned Auxiliary Converter is hereby accorded for downloading in all Three Phase Electric locos. Further it is requested that your technical representative may visit CLW for necessary changes required in hex file of DIA card for MICAS based VCU

The aforesaid software with release note may be downloaded from the below link: https://clw.indianrailways.gov.in/view_section.jsp?lang=0&id=0,295,329,493,496s. Further comments/feedback/issues, if any, may be sent to this office on ceednd@clw.railnet.gov.in & dyceedd@clw.railnet.gov.in


(Pankaj Kumar)
Dy. CEE/D&D-1/CLW

Copy to:

1. Sr. DEE/ELS, All Zonal railways -- For kind information please
2. Sr. DEE/DLS, All Zonal railways -- For kind information please


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