

टेलैक्स : 0535-2424 RDSO-IN  
फैक्स : 91-0522-458500  
तार : 'रेलमानक' लखनऊ  
Telegram : 'RAILMANAK', Lucknow  
टेलीफोन/Tele : 451200 (PBX)  
450115 (DID)



भारत सरकार - रेल मंत्रालय  
अनुसंधान अभिकल्प और मानक संगठन  
लखनऊ - 226 011  
Government of India-Ministry of Railways  
**Research Designs & Standards Organisation**  
LUCKNOW - 226 011

## **TECHNICAL CIRCULAR No. 10**

No. EL. 3.2.29

Dated 19.01.1998

### **CHIEF ELECTRICAL ENGINEER**

- Northern Railway, Baroda House, New Delhi-110001 (011-3384503)
- Eastern Railway, Fairlie Place, Calcutta- 700001 (033-2480370)
- S-E Railway, Garden Reach, Calcutta- 700042 (033-494913)
- Central Railway, Mumbai CST-400001 (022-2612354)
- Western Railway, Churchgate, Mumbai-400020 (022-2017631)
- Southern Railway, Park Town, Chennai-600003 (044-5357805)
- South-Central Railway, Secunderabad-71 (040-834179)
- Chittaranan Locomotive Works, Chittarnjan-713331 (0341-525641)

### **Sub: Max Operating Current of High Capacity DBRs.**

The High Capacity DBRs (2430 KW rating corresponding to 900 Amps. current per motor) are provided by CLW on WAG5/WAG7 class of locomotives and by BHEL on WAG5 class of locomotives. The maximum braking effort of these DBRs at 900 Amps is about 26 t, Which is beyond the adhesion limit. On actual trials in WK section it has been noted that currents of approximately 650 Amps can be achieved.

In view of the above, It has been decided to revise the setting of QF Relay and the thermostats (corresponding to 700 Amps) provided for protection of the DBRs on the above locomotives as under :-

	<b>Setting of QF Relay</b>	<b>Setting of thermostats</b>
1) Modular design of locomotive	3.6 Amps	200 deg C
11) Non-modular design of locomotive	4.0 Amps	200 deg C

The above changes may be incorporated on the locomotives on your Railway . Necessary operating instructions may please be issued to drivers on your Railway.

*(Signature)*

(Nasim Uddin)  
for Director General (Electrical)

Copy to: Secretary (Elec.), Railway Board, Railway Board, Rail Bhavan, New Delhi-110001  
(Kind Attn. : Shri I. C. Sharma EDEE/RS) for kind information.

*(Signature)*

(Nasim Uddin)  
for Director General (Electrical)