



A U S T R A L I A

AEM Australia Pty. Ltd.
ABN 76 003 136 383

Quality
Endorsed
Company
ISO 9001:2000
Lic. No. 0807
Standards Australia

Disconnectors & Earthing Switches Type "DB"



Rated Voltage: 12kV to 145kV

Rated Current: 800A to 3500A

Short Time Withstand Current: 20kA to 50kA/1 sec

Disconnectors & Earthing Switches Type "DB"

General Description

The AEM Type "DB" is a 3 phase Rotary Double Break Disconnector designed for Sub Station and Pole Mounted Transmission Systems to comply with AS1306-1985 and IEC 129.

Features

- The Moving Contact Blades are HD. HC Copper tube with solid Stainless Steel Rod inserts for strength and to maintain Contact pressure.
- All contact surfaces are Hard Silver Plated for high performance, low maintenance and long operational life.
- The Electrical Contact System is easily and quickly replaced should it be damaged due to a fault or other damaging event.
- Range of Terminal Palms to suit current requirements, Bus Bar types and sizes.
- PTFE Moving insulator bearings for easy operation and low maintenance.
- Overcentre Mechanism to ensure disconnector stays in Open or Closed position unless operated by the disconnector mechanism.
- Interphase Linkages, Overcentre mechanism and other drive components are designed to be maintenance free.

TECHNICAL CHARACTERISTICS		DISCONNECTOR	EARTHING SWITCH
RATED VOLTAGE	kV	12 —→ 145	12 —→ 145
RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE			
A) To earth and between phases	kVpk	95 —→ 650	
B) Across open Disconnector	kVpk	110 —→ 750	
C) Across open Earthing Switch	kVpk		95 —→ 650
RATED POWER FREQUENCY WITHSTAND VOLTAGE			
A) To earth and between phases	kVpk	28 —→ 275	
B) Across open Disconnector	kVpk	32 —→ 315	
C) Across open Earthing Switch	kVpk		28 —→ 275
RATED FREQUENCY	Hz	50/60	50/60
RATED NORMAL CURRENT	Amp	800 —→ 3500	
RATED SHORT TIME (1 sec) WITHSTAND			
Current	kA	20 —→ 55	20 —→ 50
RATED MECHANICAL TERMINAL LOAD			
(Any Direction) (See Note 1)	N	500	
MAXIMUM TEMPERATURE RISE ABOVE 40 DEGREE'S C AMBIENT			
A) Terminals	Degrees C	50	
B) Other current carrying parts	Degrees C	65	
RATED MAKING CURRENT	kA	N/A	N/A

Note 1. Increased terminal loads available on request

Options

- Flicker Arcing Horns.
- Single or Double Integral Earth Switches.
- Independent Earth Switches.
- Manual or Power Operation of Disconnector or Earth Switches.
- Station Post Insulators.
- "I" Beam Support Structures.
- Interlock Types, Mechanical, Solenoid and Key operated.
- Auxiliary Switches with Weatherproof Housing.
- Indicator Flag Kits for Earthing Switches.
- Co-ordination Rod Gaps.
- Bus Bar Support Kits.