

## FUSE PROTECTION AGAINST SECONDARY SHORT CIRCUIT FOR RITZ COUPLING CAPACITOR VOLTAGE TRANSFORMER

The secondary short circuit currents of the Ritz Coupling Capacitor Voltage Transformers are tabulated as follows:

<u>CCVT TYPE</u>	<u>SR/SI</u>	<u>SM</u>	<u>IM</u>	<u>ER</u>	<u>EM</u>
Sec. S.C. Current					
Tap Winding (A)	26	38	50	40	140
Full Winding (B)	15	22	30	23	80

These values were obtained with the secondary short circuit being applied as close to the secondary terminals as practical under laboratory conditions. If fuse protection is desired, the best location would be in the terminal boxes as this will ensure protection against any external short circuit. The next best location for protective fusing will be at a junction box usually mounted at the pedestal of the center phase. The wiring from the units to the end of the junction box will introduce insignificant impedance and hence the short circuit currents will remain the same values as in the table.

Non time-delay fuses such as the Buss Fuse Type BAF or BAN or similar types should work satisfactorily. The recommended ratings for the CCVT's by model type are given below:

	<u>SR/SI</u>	<u>SM</u>	<u>IM</u>	<u>ER</u>	<u>EM</u>
Tap Winding 250V	20A	20A	20A	20A	25A
Full Winding 250V	9A	9A	9A	9A	12A