VII. IS 13032 : 1991 clause 6.1 Preferred Rated Voltages

"The preferred Rated Voltages are 240 V and 415 V."

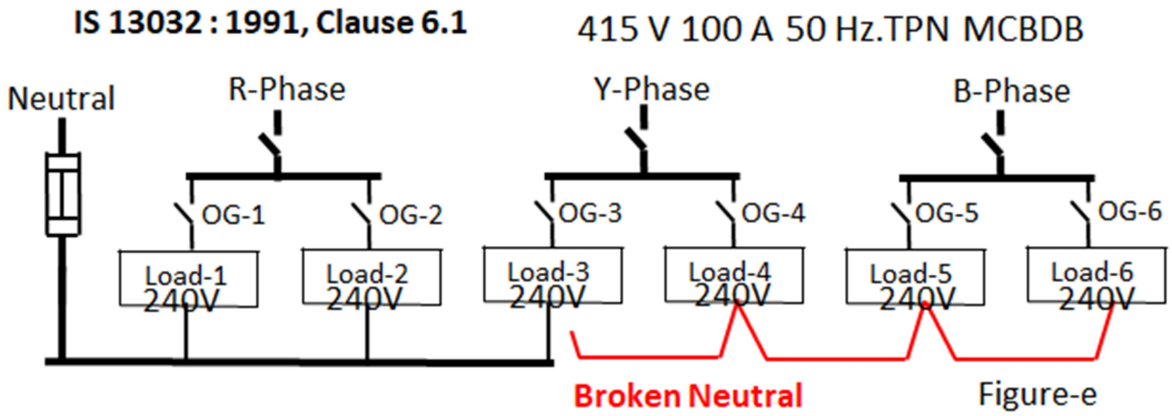

Figure-e

1. The preferred Rated Voltages are 240 V and 415 V and an accidental feeding of a 240 volt device with 415 voltage is legal as per Clause 6.1 (refer Figure-e). This will make a 240 volt rated device working with 415 volts in series with other switched load in such a way that one load with overcurrent and the other load with over voltage until a possible fire hazard in that premise.
2. The accidental feeding of 240 volt rated device with 415 volts suddenly increase fault level KVA rating from 240 volts to 415 volts and increase heat rise in that load towards the unlikely event of electrical fire hazard (refer to Figure-e).

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Recommended Changes

(To be added shown bolded/underlined)

I. 3.1 Miniature Circuit- Breaker Board

An enclosure containing bus bars**,** miniature circuit-breaker (MCB) **and residual current circuit-breaker (RCCB)** for the purpose of protecting, controlling or connecting **each** outgoing circuit fed from one or more incoming circuits **through manual change over**. Miniature Circuit-Breaker Boards are also known as miniature Circuit-Breaker Distribution Boards (MCBDB) or MCB Boards.

II. 3.2 MCB Way

The part of the MCB board comprising a Miniature Circuit-Breaker **and residual current circuit-breaker (RCCB)** connected to **each** circuit.

III. 3.2 MCB Way NOTES-1

The neutral **must** form part of the MCB way.

IV. 3.5 Neutral of an MCB Board

Provided with terminals (and if required links) for connection to the neutral conductor of **each** outgoing and incoming circuit of distribution system.

V. 6.1 Preferred rated voltage

The preferred rated voltage **is 240 V for all out going and** 240 V **or** 415 V **for incoming.**

VI. 9.1.2 Routine Tests

Another routine test at place of installation is required for ensuring **MCB, RCCB and each circuit function test reports**.