

tyco

Electronics

Energy Division

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Synchrocheck Relay 077-14

The 14L model is constructed to operate at an 'absolute' voltage. The voltage adjuster on the rear panel allows a maximum GEN-BUS voltage difference up to 20%. The absolute voltage limits at 20% would be 96V to 144V. But if the 120V nominal was a little high, for example 127V, then you would not get the 20% window at the top end. Since the GEN and BUS must both be within the 96V to 144V window, and then within a certain % of each other, this made it impossible for some customers to synchronise their sets. Because of this issue, we decided to develop the 14H model.

The 14H model is constructed to operate at a 'relative' voltage. This product ignores the actual voltage levels present at GEN and BUS, and just looks at the difference between them. The voltage adjuster on the rear panel allows a maximum GEN-BUS voltage difference up to 10%. This product is also ideal for stock, as it has a wider working range.

The 14D and 14H variants add the Dead Bus feature. When the generator is running, but there is no supply on the BUS, there will be nothing to synchronise to. So the relay closes automatically, allowing the generator power onto the dead bus (making it live).