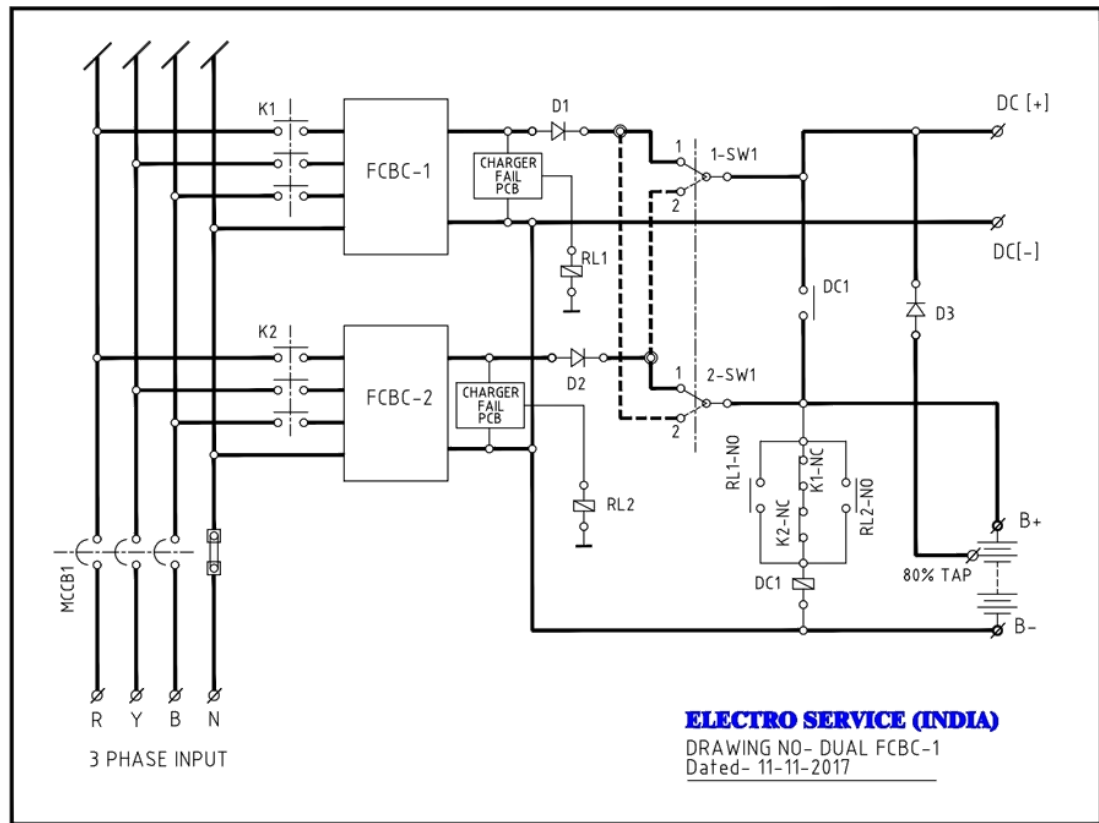




"Quality Endures"

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- Both the chargers FCBC – 1 and FCBC – 2 are identical.
- Float / Boost change-over of both the chargers will be either Automatic or Manual.
- In position–1 of the switch SW1, FCBC - 1 is selected to feed the load and FCBC – 2 is selected to charge the Battery.
- In position – 2 of SW1, FCBC – 1 is selected for charging the Battery, where as FCBC – 2 will be connected to the load.
- DC Contactor DC1 is normally de-energized and Battery is not connected to the load as ‘NO’ contact of DC1 contactor is open.
- In the event of power outage at input supply DC1 coil will be energized from the Battery through NC contacts of K1 and K2 contactors. Eventually load current will be supplied from the Battery.
- In order to provide absolute no-break dc power to critical load (connected at the DC output) D3 diode is connected at 80% tap of the Battery Bank, which will conduct during mille-second making period of the DC1 contact of the contactor.
- RL1 and RL2 are activated when charger fails. That is when charger output (before the blocking diode D1 & D2) goes beyond the specified output voltage range despite of availability of input supply to charger, we assign that is fail-condition of the charger. RL1 is activated when FCBC-1 fails and RL2 is activated when FCBC-2 fails. Eventually DC–1 will be energized and DC1 contact will close to put the battery automatically to the load path as well as output of the healthy FCBC.

TOPOLOGY:  
**DUAL FLOAT CUM BOOST  
BATTERY CHARGER-1**