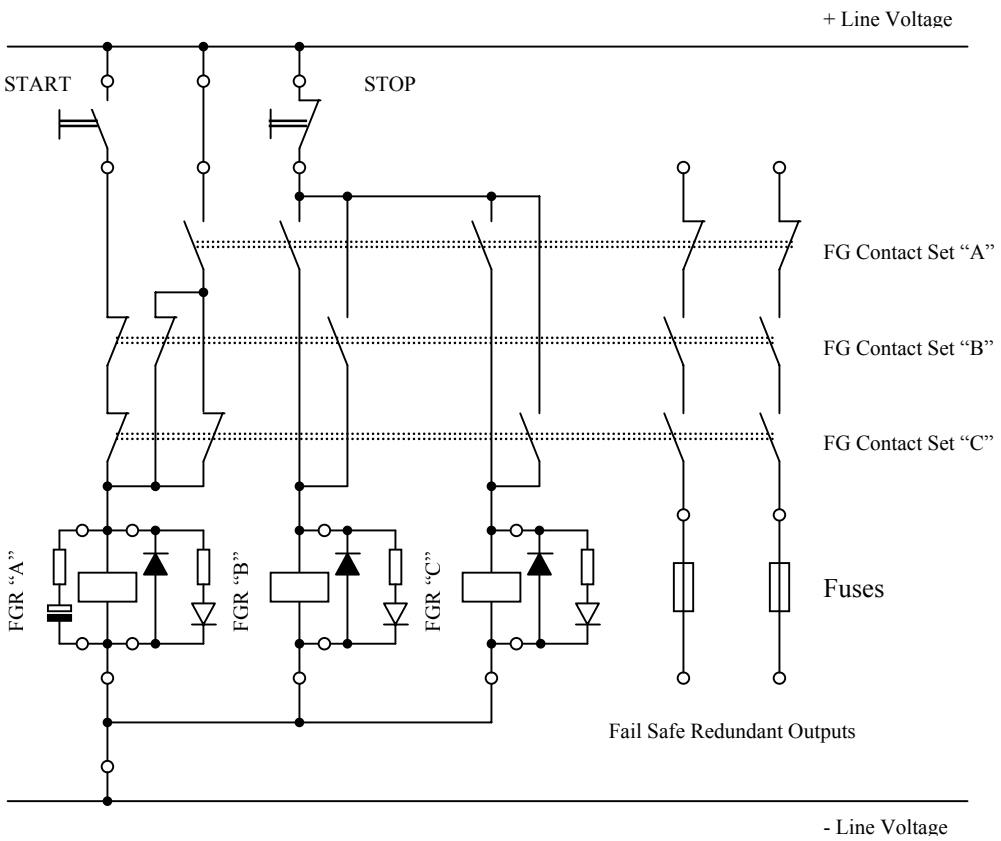
Safety Relay Boards FGR50 / FGR52

Universal DIN-Rail Mount Board with one or two force guided relays

Basic Self-Monitoring, Fail Safe, Dual Redundant Safety Circuit Employing Force Guided Contact Features

- A proper monitored safe operation requires that FGR “B” and FGR “C” must be released before any restart.
- While “START” is actuated and the NC contacts of FGR “B” and FGR “C” are still closed, FGR “A” will be energized and take a self holding position until FGR “B” and FGR “C” are energized.
- Only a proper operation of FGR “B” and FGR “C” will result in the de-energizing of FGR “A” in order to prepare the safety circuit for the next cycle or a re-start.
- A redundant safe output must contain at least one NO contact of both FGR “B” and FGR “C”.
- Depending on the safety category and/or requirements, FGR “A” can be replaced by an adequate fail safe monitored actuating device.
- Do not make any parallel connections between any arc limiting or load suppressing electronic components and any force guided contact in order to maintain the force guiding feature of the contact set.
- Please connect all external auxiliaries directly to the loads.
- Function LEDs, polarity protection Diodes, time delaying capacitor across the relay coils, fuses, start and stop switches are recommended, but do not represent any binding characteristics.
- The circuit shown is a basic fail safe, self-monitored safety schematic. It’s the responsibility of the end user to decide its suitability in your intended application.



3 DIN-Rail Units
FGR50-024-330FF
Coil Voltage: 24 V DC
Contact Set: 3NO / 3 NC

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