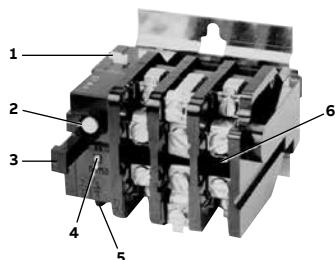


CR324 block overload relays for panel mounting

600 VAC/250 VDC, three-pole

135 Maximum amperes continuous



Typical 300-line overload relay with heater shown in center pole only

1. Manual weld check for contacts
2. Overload trip adjustment $\pm 10\%$
3. Safe reset operates on upstroke only
4. Visual trip indication
5. Optional normally open isolated, high-fidelity contacts
6. ABB exclusive dual bimetal overload protection

Application

The panel-mount block overload relay provides overload protection for motors having full-load currents up to 135 Amperes. The relays are furnished complete for use on control panels. When an overload condition occurs in any of the three legs in which heaters are inserted, it will cause the relay to trip, opening a normally closed contact, and, as an option, closing a normally open contact.

Standard and ambient compensated forms with various contact arrangements are available. A normally open circuit may be connected to a signal light, an alarm bell, or input circuit of a programmable controller, e.g., to provide indication of an overload relay trip.

Features

- Flexibility of operation; trip rating can be easily changed by replacing the front-accessible heaters.
- Dual Bimetal Current Monitoring; additional bimetal strip “anticipates” the rate of temperature rise in the motor winding; effectively reduces trip time in locked rotor conditions. It prevents dangerous temperature overshoot in the motor windings.

Product number selection instructions

1. Order required relay by complete product number as shown in table.

Example: An open block-type relay with one normally closed contact is to be mounted in a control panel. Three-leg overload protection is needed and the full-load current of the motor being controlled is 40.5 amperes. Order: CR324D310A and three CR123C400B heaters. Heaters are selected from tables on page 1-157.

Reference publications

Time Current Curves	GES-7202
Instructions	GEH-4821