

# Molded Case Circuit Breakers

## Accessories

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### Bulletin 1494V Variable Depth Flange-Mounted Circuit Breaker Operating Mechanism

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### Internal Electrical Accessories

#### Auxiliary/Alarm Contact (AX/AL)

Auxiliary and alarm contacts are supplied in multiple variations for customer application.

- Auxiliary Contacts (AX) : Indicate ON/OFF status of the MCCB.
- Alarm Contacts (AL): Indicate trip status of the MCCB. Alarm trip can be initiated by pressing the test button on the molded case circuit breaker, a trip due to overcurrent, short circuit; or trip due to residual current, shunt, or undervoltage release signals.
- Thermal Trip Contacts (TU): Trips only when the MCCB has detected an overcurrent, short-circuit, or protection trip. H- and J-Frame MCCBs have a button to test this feature. Available only for H, J, N, NS, and R frames.

These contacts are installed by removing the MCCB cover and accessing right-side pockets within the breaker with snap-in mounting provisions. Frames G...M are supplied with pig tail wiring, with each terminal wire marked. Frames N, NS, and R are wired internal to the breaker and are terminated for connection using a 3-pin quick connector.

| Description                                          | Designation           | Diagram | Frame Size | Cat. No.       |
|------------------------------------------------------|-----------------------|---------|------------|----------------|
| (1) TU Alarm Contact 250V                            | TU AL                 | C       | H, J       | 140G-H-EA1TA   |
| (1) Auxiliary (1) Alarm Contact 250V                 | AX2/AL1               | D       | G, H, I, J | 140G-G-EA1R1A  |
| (2) Auxiliary (1) Alarm Contact 250V                 | AX1/AX2/AL1           | E       | G, H, I, J | 140G-G-EA2R1A  |
| (3) Auxiliary (1) Alarm Contact 250V                 | AX1/AX2/AX3/AL1       | F       | H, I, J    | 140G-H-EA3R1A  |
| (3) Auxiliary (2) Alarm Contact 250V                 | AX1/AX2/AX3/AL1/AL2   | G       | H, J       | 140G-H-EA3R2A  |
| (2) Auxiliary (2) Alarm (1) TU AL Contact 250V       | AX2/AX3/AL1/AL2/TU AL | H       | H, J       | 140G-H-EA2R2TA |
| (1) Auxiliary Contact 250V                           | AX2                   | A       | G, H, I, J | 140G-G-EA1A    |
| (1) Auxiliary Contact 250V or (1) Alarm Contact 250V | AX2                   | A       | G, H, I, J | 140G-G-EA1AU★  |
|                                                      | AL1                   | B       |            |                |
| (1) Auxiliary Contact 24V                            | AX2                   | A       | G, H, I, J | 140G-G-EA1J★   |
| (1) TU Alarm Contact 24V                             | TU AL                 | C       | H, J       | 140G-H-EA1TJ   |
| (1) Auxiliary (1) Alarm Contact 24V                  | AX2/AL1               | D       | G, H, I, J | 140G-G-EA1R1J  |
| (3) Auxiliary (1) Alarm Contact, 24V                 | AX1/AX2/AX3/AL1       | F       | H, I, J    | 140G-H-EA3R1J  |
| (1) Auxiliary (1) Alarm Contact, 400V                | AX2/AL1               | D       | H, J       | 140G-H-EA1R1B  |
| (2) Auxiliary Contact 400V                           | AX1/AX2               | I       | H, J       | 140G-H-EA2B    |
| (1) Auxiliary (1) Alarm Contact 250V                 | AX1/AL1               | J       | K, M       | 140G-K-EA1R1A  |
| (3) Auxiliary (1) Alarm Contact 250V                 | AX1/AX2/AX3/AL1       | F       | K, M       | 140G-K-EA3R1A  |
| (3) Auxiliary (1) Alarm Contact 24V                  | AX1/AX2/AX3/AL1       | F       | K, M       | 140G-K-EA3R1J  |
| (1) Auxiliary (1) Alarm Contact 400V                 | AX1/AL1               | J       | K, M       | 140G-K-EA1R1B  |
| (2) Auxiliary Contact 400V                           | AX1/AX2               | I       | K, M       | 140G-K-EA2B    |
| (1) Auxiliary (1) Alarm Contact 24V                  | AX2/AL1               | D       | N          | 140G-N-EA1R1J  |
| (2) Auxiliary Contact 24V                            | AX1/AX2               | I       | N, NS      | 140G-N-EA2J    |
| (1) Auxiliary (1) Alarm Contact 400V                 | AX2/AL1               | D       | N          | 140G-N-EA1R1B  |
| (2) Auxiliary Contact 400V                           | AX1/AX2               | I       | N, NS      | 140G-N-EA2B    |
| (1) TU Alarm Contact 250V                            | TU AL                 | C       | N, NS      | 140G-N-EA1TA   |
| (4) Auxiliary Contact 24V                            | AX1/AX2/AX3/AX4       | K       | R          | 140G-R-EA4J    |
| (4) Auxiliary Contact 400V                           | AX1/AX2/AX3/AX4       | K       | R          | 140G-R-EA4A    |
| (1) TU Alarm Contact 250V                            | TU AL                 | L       | R          | 140G-R-EA1TA   |



Representative Photo

★ This contact is supplied with unmarked wires. Contact can function as either an auxiliary or alarm contact, depending on connection method.