



Cat. No. 140G-G6C3-D12

**Bulletin 140G Molded Case Circuit Breakers**

- 10..3000 A current range
- 3- & 4-pole devices
- Space-saving dimensions
- Thermal/Magnetic protection: 15..800 A
- Electronic protection: 10..3000 A
- Approved for global application: UL, CSA, CCC, and IEC performance interrupting/breaking capacity
- Wide range of mounting options
- Extensive range of factory- or field-installed accessories

The Bulletin 140G family of Molded Case Circuit Breakers (MCCBs) offers a wide range of features include thermal/magnetic and electronic protection devices, high interrupting/breaking capacities and a complete line of factory and field installed accessories. The Bulletin 140G MCCBs are ideal for use in line protection of control panels.

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**Standards Compliance**

IEC 60947-2  
UL489  
CSA22.2, No. 5

**Certifications**

CE Marked  
CCC  
CSA Certified  
UL Listed



**G-Frame**



**H-Frame**



**I-Frame**



**J-Frame**



**K-Frame**



**M-Frame**



**N-, NS-Frame**



**R-Frame**

| Frame Reference                                     | G-Frame   | H-Frame            | I-Frame | J-Frame        | K-Frame         | M-Frame     | N-Frame    | NS-Frame   | R-Frame |
|-----------------------------------------------------|-----------|--------------------|---------|----------------|-----------------|-------------|------------|------------|---------|
| Rated Current $I_n$                                 | 125 A     | 125 A              | 225 A   | 250 A          | 400 A           | 800 A       | 1200 A     | 1200 A     | 3000 A  |
| No. of Poles                                        | 3, 4      | 3, 4               | 3, 4    | 3, 4           | 3, 4            | 3, 4        | 3, 4       | 3, 4       | 3, 4    |
| <b>Interrupting Rating [kA]</b>                     |           |                    |         |                |                 |             |            |            |         |
| 240V                                                | 50 65 100 | 65 100 150 200 200 | 50 65   | 65 100 150 200 | 100 150 200 200 | 100 200 200 | 65 100 150 | 65 100 150 | 125     |
| 480V                                                | 25 35 65  | 25 35 65 100 150   | 25 35   | 25 35 65 100   | 35 65 100 150   | 50 65 100   | 50 65 100  | 50 65 100  | 125     |
| 600Y/347V                                           | 10 14 25  | —                  | 10 10   | —              | —               | —           | —          | —          | —       |
| 600V                                                | —         | 14 18 25 35        | 10 10   | 14 18 25 35    | 25 35 65 100    | 25 35 42    | 25 50 65   | 25 50 65   | 100     |
| <b>Breaking Capacity [<math>I_{cu}</math> (kA)]</b> |           |                    |         |                |                 |             |            |            |         |
| 220...240V                                          | 65 85 100 | 65 85 100 150 200  | 65 85   | 65 85 100 150  | 85 100 200 200  | 85 100 200  | 85 100 200 | 85 100 200 | 130     |
| 415V                                                | 36 50 70  | 36 50 70 120 150   | 36 50   | 36 50 70 120   | 50 70 120 200   | 36 70 100   | 50 70 120  | 50 70 120  | 80      |
| 440V                                                | 36 50 65  | 36 50 65 100 150   | 25 40   | 36 50 65 100   | 40 65 100 180   | 35 50 65    | 50 65 100  | 50 65 100  | 80      |
| 690V                                                | 6 8 10    | 10 12 15 18 20     | 5 8     | 10 12 15 20    | 25 40 70 80     | 22 25 30    | 30 42 50   | 30 42 50   | 40      |
| 250V DC                                             | 36 50 70  | 36 50 70 85 100    | 36 50   | 36 50 70 85    | —               | 36 50 65    | —          | —          | —       |
| 500V DC                                             | 36 50 70  | 36 50 70 85 100    | 36 50   | 36 50 70 85    | 36 50 70 100    | —           | —          | —          | —       |
| 750V DC                                             | —         | —                  | —       | —              | 25 36 70 70     | 16 36 50    | —          | —          | —       |
| <b>Protection Type</b>                              |           |                    |         |                |                 |             |            |            |         |
| Thermal Magnetic                                    | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | —          | —          | —       |
| Electronic                                          | —         | ✓                  | —       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| Molded Case Switch                                  | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| <b>Internal Accessories</b>                         |           |                    |         |                |                 |             |            |            |         |
| Auxiliary Contact                                   | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| Alarm Contact                                       | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| AX/AL Combo                                         | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| Trip Unit Contact                                   | —         | ✓                  | —       | ✓              | —               | —           | ✓          | ✓          | ✓       |
| Shunt Trip                                          | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| Shunt Close                                         | —         | —                  | —       | —              | —               | —           | ✓          | ✓          | ✓       |
| UV Relay                                            | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| Field Installable                                   | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| <b>External Accessories</b>                         |           |                    |         |                |                 |             |            |            |         |
| End Cap                                             | STD       | STD                | STD     | STD            | STD             | STD         | STD        | STD        | —       |
| 25 mm Phase Barriers                                | STD       | STD                | STD     | STD            | STD             | —           | —          | —          | —       |
| Insulators                                          | STD       | STD                | STD     | STD            | STD             | STD         | —          | —          | —       |
| Terminal Lugs                                       | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| Extended Terminal                                   | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | —       |
| Spreader Terminal                                   | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| Rear Terminal                                       | —         | —                  | —       | —              | —               | —           | ✓          | ✓          | ✓       |
| Phase barriers                                      | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |
| Terminal Cover                                      | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | —       |
| Direct Rotary                                       | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | —          | —       |
| Variable Depth (Door)                               | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | —          | —       |
| Internal NFPA 79                                    | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | —          | —       |
| Flange Operator                                     | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | —          | —       |
| Flange Cable                                        | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | —          | —       |
| Motor Operator                                      | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | —          | ✓          | ✓       |
| Field Installable                                   | ✓         | ✓                  | ✓       | ✓              | ✓               | ✓           | ✓          | ✓          | ✓       |

# Molded Case Circuit Breakers

Catalog Number Explanation — 225 A, I-Frame

## Complete Circuit Breaker Assemblies — 225 A, I-Frame

Examples given in this section are not intended to be used for product selection. Use ProposalWorks to configure the molded case circuit breaker. Use these configurations only to select all factory-installed options for shunt trips, undervoltage release units, auxiliary contacts, and alarm contacts. Use the codes from Table g to add on to the molded case circuit breaker cat. no. selected on the previous pages to form a complete cat. no. for a complete assembly with factory-installed options.



140G – I 3 C 3 – C60 – SA – KA

a                      b                      c                      d                      e                      f                      g

**a**

| Bulletin No. |                                    |
|--------------|------------------------------------|
| Code         | Description                        |
| 140G         | Global Molded Case Circuit Breaker |

**b**

| Frame/Rating |             |
|--------------|-------------|
| Code         | Description |
| I            | 225 A       |

**c**

| Interrupting Rating/Breaking Capacity<br>(based on $I_c$ at 480V) |             |
|-------------------------------------------------------------------|-------------|
| Code                                                              | Description |
| 2                                                                 | 25 kA       |
| 3                                                                 | 35 kA       |

**d**

| Protection Type |                               |
|-----------------|-------------------------------|
| Code            | Description                   |
| C               | Fixed thermal/fixed magnetic  |
| S               | Molded case switch (Isolator) |

**e**

| Poles |             |
|-------|-------------|
| Code  | Description |
| 3     | 3 poles     |
| 4     | 4 poles     |

**f**

| Current Range |                   |
|---------------|-------------------|
| Code          | Description       |
| C             | e.g., C30 = 30 A  |
| D             | e.g., D16 = 160 A |

**g**

| Factory-Installed Internal Options♦       |                                                    |
|-------------------------------------------|----------------------------------------------------|
| Shunt Trip and Undervoltage Release Units |                                                    |
| Code                                      | Description                                        |
| SJ                                        | Shunt Trip, 24...30V AC/DC                         |
| SK                                        | Shunt Trip, 48...60V AC/DC                         |
| SD                                        | Shunt Trip, 110...127V AC; 110...125V DC           |
| SA                                        | Shunt Trip, 220...240V AC; 220...250V DC           |
| SB                                        | Shunt Trip, 380...440V AC                          |
| SG                                        | Shunt Trip, 480...525V AC                          |
| UJ                                        | Undervoltage Release, 24...30V AC/DC               |
| UR                                        | Undervoltage Release, 48V AC/DC                    |
| UD                                        | Undervoltage Release, 110...127V AC; 110...125V DC |
| UA                                        | Undervoltage Release, 220...240V AC; 220...250V DC |
| UB                                        | Undervoltage Release, 380...440V AC                |
| UC                                        | Undervoltage Release, 480...525V AC                |
| No Digit                                  | No Selection                                       |
| Auxiliary and Alarm Contacts              |                                                    |
| Code                                      | Description                                        |
| KA                                        | 1 Aux. Contact, 250V                               |
| TA                                        | 1 Alarm Contact, 250V                              |
| AA                                        | 1 Aux., 1 Alarm Contact, 250V                      |
| BA                                        | 2 Aux., 1 Alarm Contact, 250V                      |
| CA                                        | 3 Aux., 1 Alarm Contact, 250V                      |
| AJ                                        | 1 Aux., 1 Alarm Contact, 24V                       |
| CJ                                        | 3 Aux., 1 Alarm Contact, 24V                       |

♦ Select up to two internal options: 1 for left side mounting (shunt trip or undervoltage release), 1 for right (auxiliary or alarm contact). Consult your local Rockwell automation sales office or Allen-Bradley distributor for further assistance.

Assembled Molded Case Circuit Breakers — 225 A I-Frame



Interrupting Rating/Breaking Capacity — Thermal-Magnetic Circuit Breakers

| Interrupting Rating<br>(50/60 Hz), UL 489/CSA<br>C22.2-5, No. 5-02 [kA] |      |               | Breaking Capacity (50 Hz), IEC 60947-2 |                                                    |                             |                                                    |                             |                                                    |                             |                                                    | Breaking Capacity (DC), IEC 60947-2 |                                                    |                               |                                                    | Interrupting<br>Code‡ |
|-------------------------------------------------------------------------|------|---------------|----------------------------------------|----------------------------------------------------|-----------------------------|----------------------------------------------------|-----------------------------|----------------------------------------------------|-----------------------------|----------------------------------------------------|-------------------------------------|----------------------------------------------------|-------------------------------|----------------------------------------------------|-----------------------|
| 240V                                                                    | 480V | 600Y/<br>347V | 220V★                                  |                                                    | 415V                        |                                                    | 440V★                       |                                                    | 690V                        |                                                    | 250V DC<br>(2-pole in series)       |                                                    | 500V DC<br>(3-pole in series) |                                                    |                       |
|                                                                         |      |               | <i>I</i> <sub>cu</sub> [kA]            | <i>I</i> <sub>cs</sub> [% <i>I</i> <sub>cu</sub> ] | <i>I</i> <sub>cu</sub> [kA] | <i>I</i> <sub>cs</sub> [% <i>I</i> <sub>cu</sub> ] | <i>I</i> <sub>cu</sub> [kA] | <i>I</i> <sub>cs</sub> [% <i>I</i> <sub>cu</sub> ] | <i>I</i> <sub>cu</sub> [kA] | <i>I</i> <sub>cs</sub> [% <i>I</i> <sub>cu</sub> ] | <i>I</i> <sub>cu</sub> [kA]         | <i>I</i> <sub>cs</sub> [% <i>I</i> <sub>cu</sub> ] | <i>I</i> <sub>cu</sub> [kA]   | <i>I</i> <sub>cs</sub> [% <i>I</i> <sub>cu</sub> ] |                       |
| 50                                                                      | 25   | 10            | 50                                     | 75                                                 | 36                          | 75                                                 | 25                          | 75                                                 | 5                           | 50                                                 | 36                                  | 100                                                | 36                            | 100                                                |                       |
| 65                                                                      | 35   | 10            | 85                                     | 50                                                 | 50                          | 50                                                 | 40                          | 50                                                 | 6                           | 50                                                 | 50                                  | 75                                                 | 50                            | 75                                                 |                       |

★ These ratings have not been tested for the CCC listing.

‡ See table below for Cat. No. selection

Thermal-Magnetic, Fixed & Adjustable

| Rated<br>Current<br>$I_n$ [A] | Thermal Trip [A]<br>$I_r = I_n$ (Fixed) | Magnetic Trip [A]<br>$I_m$ | Interrupting Code I2 |               | Interrupting Code I3 |               |
|-------------------------------|-----------------------------------------|----------------------------|----------------------|---------------|----------------------|---------------|
|                               |                                         |                            | Cat. No.             |               | Cat. No.             |               |
|                               |                                         |                            | 3 Poles              | 4 Poles       | 3 Poles              | 4 Poles       |
| 60                            | 60                                      | 600                        | 140G-I2C3-C60        | 140G-I2C4-C60 | 140G-I3C3-C60        | 140G-I3C4-C60 |
| 63                            | 63                                      | 630                        | 140G-I2C3-C63        | 140G-I2C4-C63 | 140G-I3C3-C63        | 140G-I3C4-C63 |
| 70                            | 70                                      | 700                        | 140G-I2C3-C70        | 140G-I2C4-C70 | 140G-I3C3-C70        | 140G-I3C4-C70 |
| 80                            | 80                                      | 800                        | 140G-I2C3-C80        | 140G-I2C4-C80 | 140G-I3C3-C80        | 140G-I3C4-C80 |
| 90                            | 90                                      | 900                        | 140G-I2C3-C90        | 140G-I2C4-C90 | 140G-I3C3-C90        | 140G-I3C4-C90 |
| 100                           | 100                                     | 1000                       | 140G-I2C3-D10        | 140G-I2C4-D10 | 140G-I3C3-D10        | 140G-I3C4-D10 |
| 110                           | 110                                     | 1100                       | 140G-I2C3-D11        | 140G-I2C4-D11 | 140G-I3C3-D11        | 140G-I3C4-D11 |
| 125                           | 125                                     | 1250                       | 140G-I2C3-D12        | 140G-I2C4-D12 | 140G-I3C3-D12        | 140G-I3C4-D12 |
| 150                           | 150                                     | 1500                       | 140G-I2C3-D15        | 140G-I2C4-D15 | 140G-I3C3-D15        | 140G-I3C4-D15 |
| 160                           | 160                                     | 1600                       | 140G-I2C3-D16        | 140G-I2C4-D16 | 140G-I3C3-D16        | 140G-I3C4-D16 |
| 175                           | 175                                     | 1750                       | 140G-I2C3-D17        | 140G-I2C4-D17 | 140G-I3C3-D17        | 140G-I3C4-D17 |
| 200                           | 200                                     | 2000                       | 140G-I2C3-D20        | 140G-I2C4-D20 | 140G-I3C3-D20        | 140G-I3C4-D20 |
| 225                           | 225                                     | 2250                       | 140G-I2C3-D22        | 140G-I2C4-D22 | 140G-I3C3-D22        | 140G-I3C4-D22 |

Molded Case Switch — UL489§

| Rated<br>Current<br>$I_n$ [A] | Magnetic Trip<br>[A]<br>$I_m$ | Cat. No.      |               |
|-------------------------------|-------------------------------|---------------|---------------|
|                               |                               | 3 Poles       | 4 Poles       |
| 225                           | 2250                          | 140G-I3S3-D22 | 140G-I3S4-D22 |

§ Does not provide overcurrent protection; may open above 2250 A.



# 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.

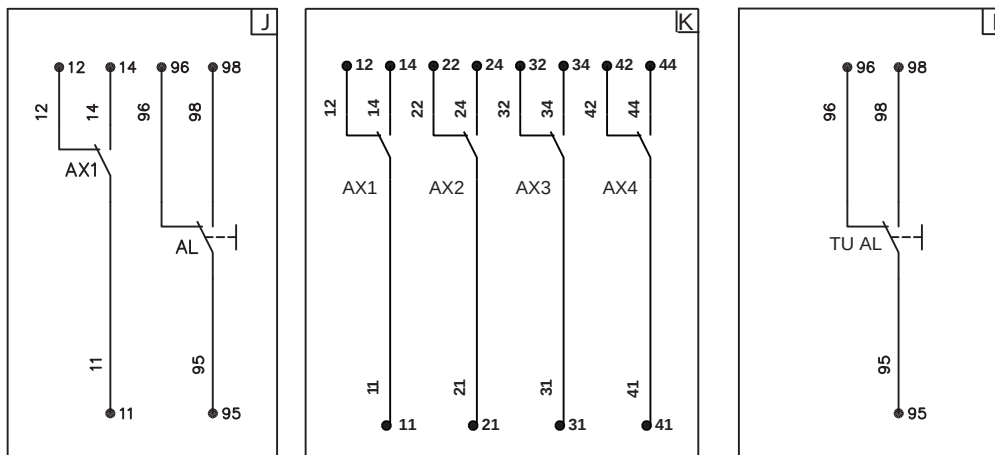
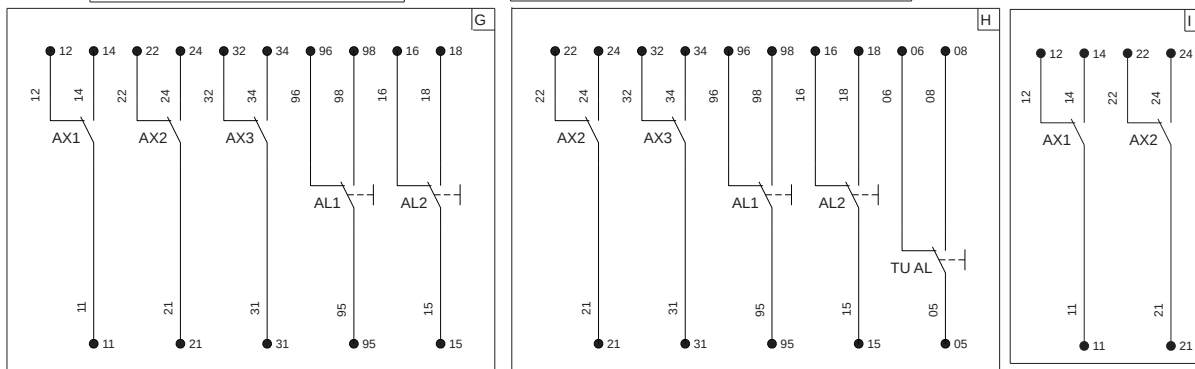
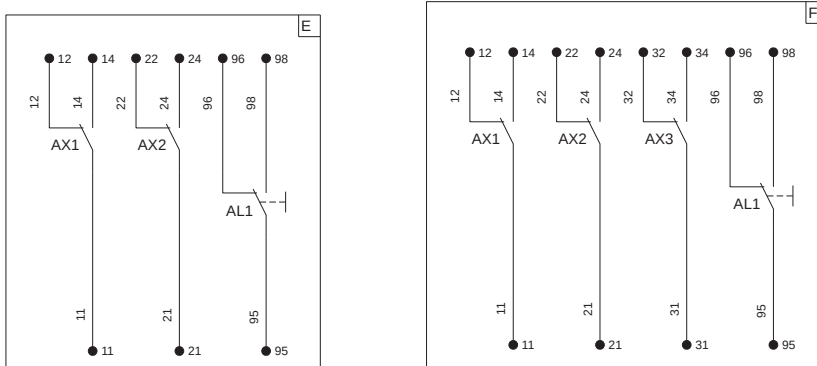
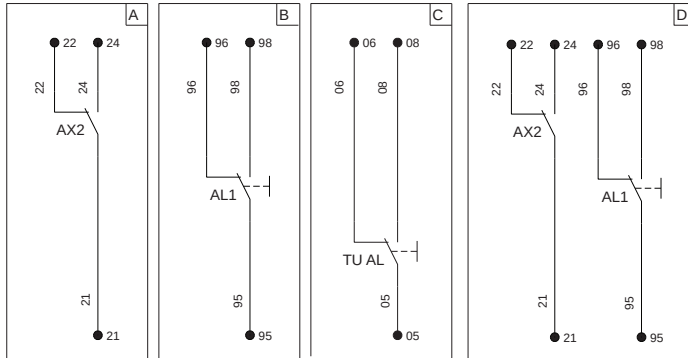
| Description                                          | Designation           | Diagram | Frame Size | Cat. No.       |
|------------------------------------------------------|-----------------------|---------|------------|----------------|
| (1) TU Alarm Contact 250V                            | TU 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.

Diagrams

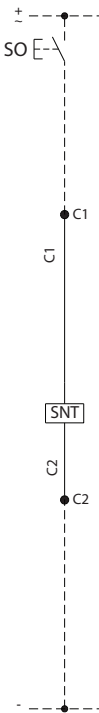


# Molded Case Circuit Breakers

## Accessories

### Shunt Trip (SNT)

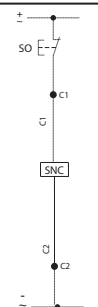
- Allows for remote tripping of the MCCB by applying control voltage to the shunt trip coil.
- Frames G, H, I, J, K, and M are supplied with pig-tail wiring (each terminal wire is marked).
- Frame N, NS, and R are wired internal to the breaker and terminated for connection using a 3-pin quick connector.

| Description                                                                                                       |                             | Diagram                                                                            | Frame Size       | Cat. No.    |             |             |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|------------------|-------------|-------------|-------------|
| <br><b>Representative Photo</b>  | 12V DC                      |  | G, H, I, J       | 140G-G-SNR  |             |             |
|                                                                                                                   | 24...30V AC/DC              |                                                                                    |                  | 140G-G-SNJ  |             |             |
|                                                                                                                   | 48...60V AC/DC              |                                                                                    |                  | 140G-G-SNKY |             |             |
|                                                                                                                   | 110...127V AC/110...125V DC |                                                                                    |                  | 140G-G-SND  |             |             |
|                                                                                                                   | 220...240V AC/220...250V DC |                                                                                    |                  | 140G-G-SNA  |             |             |
|                                                                                                                   | 380...440V AC               |                                                                                    |                  | 140G-G-SNB  |             |             |
| <br><b>Representative Photo</b>  | 480...525V AC               |                                                                                    |                  |             | 140G-G-SNC  |             |
|                                                                                                                   | 12V DC                      |                                                                                    |                  | K, M        | 140G-K-SNR  |             |
|                                                                                                                   | 24...30V AC/DC              |                                                                                    |                  |             | 140G-K-SNJ  |             |
|                                                                                                                   | 48...60V AC/DC              |                                                                                    |                  |             | 140G-K-SNKY |             |
|                                                                                                                   | 110...127V AC/110...125V DC |                                                                                    |                  |             | 140G-K-SND  |             |
|                                                                                                                   | 220...240V AC/220...250V DC |                                                                                    |                  |             | 140G-K-SNA  |             |
| 380...440V AC                                                                                                     |                             |                                                                                    | 140G-K-SNB       |             |             |             |
| <br><b>Representative Photo</b> | 480...525V AC               |                                                                                    |                  |             | 140G-K-SNC  |             |
|                                                                                                                   | 24V AC/DC                   |                                                                                    |                  | N, NS       | 140G-N-SNJ  |             |
|                                                                                                                   | 48V AC/DC                   |                                                                                    |                  |             | 140G-N-SNKY |             |
|                                                                                                                   | 110...120V AC/DC            |                                                                                    |                  |             | 140G-N-SND  |             |
|                                                                                                                   | 220...240V AC/DC            |                                                                                    |                  |             | 140G-N-SNA  |             |
|                                                                                                                   | 380...400V AC               |                                                                                    |                  |             | 140G-N-SNB  |             |
|                                                                                                                   |                             |                                                                                    | 24V DC           |             | R           | 140G-R-SNJ  |
|                                                                                                                   |                             |                                                                                    | 48V AC/DC        |             |             | 140G-R-SNKY |
|                                                                                                                   |                             |                                                                                    | 110...120V AC/DC |             |             | 140G-R-SND  |
|                                                                                                                   |                             |                                                                                    | 220...240V AC/DC |             |             | 140G-R-SNA  |
|                                                                                                                   |                             |                                                                                    | 380...400V AC/DC |             |             | 140G-R-SNB  |

### Shunt Close (SNC)

- For use with motorized versions of the NS- and R-Frame MCCB.
- Allows for remote closing of the MCCB when the spring motor is charged.

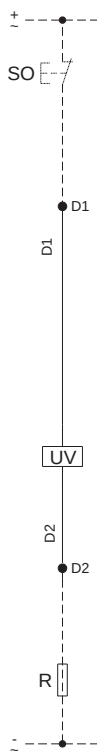
The shunt close unit is wired internal to the MCCB and terminated for connection using a 3-pin quick connect.

| Description                                                                                                 | Diagram                                                                             | Frame Size | Cat. No.      |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|---------------|
| <br>Representative Photo |  | NS         | 140G-NS-SNCJ  |
|                                                                                                             |                                                                                     |            | 140G-NS-SNCKY |
|                                                                                                             |                                                                                     |            | 140G-NS-SNCD  |
|                                                                                                             |                                                                                     |            | 140G-NS-SNCA  |
|                                                                                                             |                                                                                     |            | 140G-NS-SNCB  |
|                                                                                                             |                                                                                     | R          | 140G-R-SNCJ   |
|                                                                                                             |                                                                                     |            | 140G-R-SNCKY  |
|                                                                                                             |                                                                                     |            | 140G-R-SNCD   |
|                                                                                                             |                                                                                     |            | 140G-R-SNCA   |
|                                                                                                             |                                                                                     |            | 140G-R-SNCB   |



### Undervoltage Release (UVR)

- Opens the MCCB when supply voltage drops below 0.7 of the UV relay, with a trip rating from 0.7...0.35.
- The MCCB can be reset when the supply voltage is higher than 0.85 of the relay rating.
- When the UV is de-energized it is not possible to close the main contacts on the MCCB.
- R Resistor is supplied with the MCCB when reset is required.

| Description                                                                                                       |                             | Diagram                                                                            | Frame Size  | Cat. No.    |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|-------------|-------------|
| <br><b>Representative Photo</b>  | 24...30V AC/DC              |  | G, H, I, J  | 140G-G-UVJ  |
|                                                                                                                   | 48V AC/DC                   |                                                                                    |             | 140G-G-UVR  |
|                                                                                                                   | 60V AC/DC                   |                                                                                    |             | 140G-G-UVKY |
|                                                                                                                   | 110...127V AC/110...125V DC |                                                                                    |             | 140G-G-UVD  |
|                                                                                                                   | 220...240V AC/220...250V DC |                                                                                    |             | 140G-G-UVA  |
|                                                                                                                   | 380...440 V AC              |                                                                                    |             | 140G-G-UVB  |
| <br><b>Representative Photo</b>  | 480...525 V AC              |                                                                                    | K, M        | 140G-G-UVC  |
|                                                                                                                   | 24...30V AC/DC              |                                                                                    |             | 140G-K-UVJ  |
|                                                                                                                   | 48V AC/DC                   |                                                                                    |             | 140G-K-UVR  |
|                                                                                                                   | 60V AC/DC                   |                                                                                    |             | 140G-K-UVKY |
|                                                                                                                   | 110...127V AC/110...125V DC |                                                                                    |             | 140G-K-UVD  |
|                                                                                                                   | 220...240V AC/220...250V DC |                                                                                    |             | 140G-K-UVA  |
| <br><b>Representative Photo</b> | 380...440 V AC              |                                                                                    | N, NS       | 140G-K-UVB  |
|                                                                                                                   | 480...525 V AC              |                                                                                    |             | 140G-K-UVC  |
|                                                                                                                   | 24V AC/DC                   |                                                                                    |             | 140G-N-UVJ  |
|                                                                                                                   | 60V AC/DC                   |                                                                                    |             | 140G-N-UVKY |
|                                                                                                                   | 110...120V AC/DC            |                                                                                    |             | 140G-N-UVD  |
|                                                                                                                   | 220...240V AC/DC            |                                                                                    |             | 140G-N-UVA  |
|                                                                                                                   | 380...400V AC               | R                                                                                  | 140G-N-UVB  |             |
|                                                                                                                   | 415...440V AC               |                                                                                    | 140G-N-UVC  |             |
|                                                                                                                   | 24V DC                      |                                                                                    | 140G-R-UVJ  |             |
|                                                                                                                   | 60V AC/DC                   |                                                                                    | 140G-R-UVKY |             |
|                                                                                                                   | 110...120V AC/DC            |                                                                                    | 140G-R-UVD  |             |
|                                                                                                                   | 220...240V AC/DC            |                                                                                    | 140G-R-UVA  |             |
|                                                                                                                   | 380...400V AC               |                                                                                    | 140G-R-UVB  |             |
|                                                                                                                   | 440...480V AC               |                                                                                    | 140G-R-UVC  |             |

### Residual Current Release Module (IEC Only)

The residual current release module provides protection against low levels of earth (ground) fault currents. It continuously monitors the state of the insulation, with adjustability to provide protection from direct and indirect contact. Compliant with IEC 60947-2 annex B, IEC 61000 for protection against unwarranted tripping.

- Alarm & Trip indication
- 0.03 A with 0.0 s override
- Current adjustment: 0.5...10 A
- Time adjustment: 0.0...3 s
- Test

| <br><b>Representative Photo</b> | Frame Size | 3-Pole Cat. No. | 4-Pole Cat. No. |
|--------------------------------------------------------------------------------------------------------------------|------------|-----------------|-----------------|
|                                                                                                                    | G          | 140G-G-ELP1603  | 140G-G-ELP1604  |
|                                                                                                                    | H          | —               | 140G-H-ELP1604  |
|                                                                                                                    | I          | 140G-I-ELP2503  | 140G-I-ELP2504  |
|                                                                                                                    | J          | —               | 140G-J-EP2504   |
|                                                                                                                    | K          | —               | 140G-K-ELP      |



# Molded Case Circuit Breakers

## Accessories

### Current Transformer for Neutral Current

| <br><b>Representative Photo</b> | Rated Current [A] | Frame Size | Cat. No.      |
|------------------------------------------------------------------------------------------------------------------|-------------------|------------|---------------|
|                                                                                                                  | 300               | K ★        | 140G-K-NCTD30 |
|                                                                                                                  | 400               | K ★        | 140G-K-NCTD40 |
|                                                                                                                  | 600               | M ★        | 140G-M-NCTD60 |
|                                                                                                                  | 800               | M ★        | 140G-M-NCTD80 |
|                                                                                                                  | 400...1600        | N, NS      | 140G-N-NCTE16 |
|                                                                                                                  | 1000...3200       | R          | 140G-R-NCTE30 |

★ Order with connector (Cat. No. 140G-K-CC).

### Mechanical Accessories

#### Terminal Lugs

|                                                                                                                    | Description                                                                            | Frame Size | Cat. No. (Pkg. Qty. 3) | Cat. No. (Pkg. Qty. 4) |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------|------------------------|------------------------|
| <br><b>Representative Photo</b>   | <b>Cu wire, MCCB only</b><br>(1) 14...1/0 AWG or 2.5...70 mm <sup>2</sup>              | G          | 140G-G-TLC13           | 140G-G-TLC14           |
|                                                                                                                    | <b>Cu wire, MCP only</b><br>(1) 14...1/0 AWG or 1.5...70 mm <sup>2</sup>               |            | 140G-G-TLC13A          | —                      |
|                                                                                                                    | <b>Multiple cable - Cu wire</b><br>(6) 14...2 AWG or 2.5...35 mm <sup>2</sup>          |            | 140G-G-MTL63           | 140G-G-MTL64           |
|                                                                                                                    | <b>Cu wire only</b><br>(1) 14...1/0 AWG or 2.5...95 mm <sup>2</sup>                    | H          | 140G-H-TLC13           | 140G-H-TLC14           |
|                                                                                                                    | <b>Multiple cable - Cu wire</b><br>(6) 14...2 AWG or 2.5...35 mm <sup>2</sup>          |            | 140G-H-MTL63           | 140G-H-MTL64           |
| <br><b>Representative Photo</b>   | <b>Al or Cu wire</b><br>(1) 14...1/0 AWG or 2.5...50 mm <sup>2</sup>                   | I          | 140G-I-TLA13           | 140G-I-TLA14           |
|                                                                                                                    | <b>Al or Cu wire</b><br>(1) 4...300 MCM or 25...150 mm <sup>2</sup>                    |            | 140G-I-TLA1A3          | 140G-I-TLA1A4          |
|                                                                                                                    | <b>Cu wire only</b><br>(1) 10...250 MCM or 6...185 mm <sup>2</sup>                     |            | 140G-I-TLC13           | 140G-I-TLC14           |
|                                                                                                                    | <b>Multiple cable - Cu wire</b><br>(6) 12...2 AWG or 2.5...35 mm <sup>2</sup>          |            | 140G-I-MTL63           | 140G-I-MTL64           |
|                                                                                                                    | <b>Al or Cu wire</b><br>(1) 14...1/0 AWG or 2.5...50 mm <sup>2</sup>                   | J          | 140G-J-TLA13           | 140G-J-TLA14           |
|                                                                                                                    | <b>Al or Cu wire</b><br>(1) 4...300 MCM or 25...150 mm <sup>2</sup>                    |            | 140G-J-TLA1A3          | 140G-J-TLA1A4          |
| <br><b>Representative Photo</b> | <b>Al or Cu wire</b><br>(1) 6 (Al)/10 (Cu)...350 MCM or 2.5...185 mm <sup>2</sup> (Al) |            | 140G-J-TLA1B3          | 140G-J-TLA1B4          |
|                                                                                                                    | <b>Cu wire only</b><br>(1) 10...350 MCM or 6...185 mm <sup>2</sup>                     |            | 140G-J-TLC13           | 140G-J-TLC14           |
|                                                                                                                    | <b>Multiple cable - Cu wire</b><br>(6) 12...2 AWG or 2.5...35 mm <sup>2</sup>          |            | 140G-J-MTL63           | 140G-J-MTL64           |
| <br><b>Representative Photo</b> | <b>Al or Cu wire</b><br>(1) 250...500 MCM or 120...240 mm <sup>2</sup>                 | K          | 140G-K-TLA13           | 140G-K-TLA14           |
|                                                                                                                    | <b>Al or Cu wire</b><br>(2) 2/0...250 MCM or 95...120 mm <sup>2</sup>                  |            | 140G-K-TLA23           | 140G-K-TLA24           |
|                                                                                                                    | <b>Cu wire only</b><br>(1) 250...500 MCM or 120...240 mm <sup>2</sup>                  |            | 140G-K-TLC13           | 140G-K-TLC14           |
|                                                                                                                    | <b>Cu wire only</b><br>(2) 2/0...250 MCM or 95...120 mm <sup>2</sup>                   |            | 140G-K-TLC23           | 140G-K-TLC24           |
|                                                                                                                    | <b>Multiple cable - Cu wire</b><br>(6) 6...1/0 AWG or 16...50 mm <sup>2</sup>          | M          | 140G-K-MTL63           | 140G-K-MTL64           |
| <br><b>Representative Photo</b> | <b>Al or Cu wire</b><br>(2) 250...500 MCM or 120...240 mm <sup>2</sup>                 |            | 140G-M-TLA23           | 140G-M-TLA24           |
|                                                                                                                    | <b>Al or Cu wire</b><br>(3) 2/0...400 MCM or 70...185 mm <sup>2</sup>                  |            | 140G-M-TLA33           | 140G-M-TLA34           |
|                                                                                                                    | <b>Cu wire only</b><br>(2) 3/0...350 MCM or 85...185 mm <sup>2</sup>                   |            | 140G-M-TLC23           | 140G-M-TLC24           |
|                                                                                                                    | <b>Cu wire only</b><br>(3) 2/0...350 MCM or 70...185 mm <sup>2</sup>                   |            | 140G-M-TLC33           | 140G-M-TLC34           |
| <br><b>Representative Photo</b> | <b>Al or Cu wire</b><br>(4) 4/0...500 MCM or 70...240 mm <sup>2</sup>                  | N, NS      | 140G-N-TLA43           | 140G-N-TLA44           |
|                                                                                                                    | <b>Cu wire only</b><br>(4) 4/0...500 MCM or 70...240 mm <sup>2</sup>                   |            | 140G-N-TLC43           | 140G-N-TLC44           |
|                                                                                                                    | <b>Al or Cu wire</b><br>(6) 1/0...750 MCM or 50...400 mm <sup>2</sup>                  | R          | 140G-R-TLA63           | —                      |
|                                                                                                                    | <b>Cu wire only</b><br>(6) 1/0...750 MCM or 50...400 mm <sup>2</sup>                   |            | 140G-R-TLC63           | —                      |

### Extended Terminals

| <br>Representative Photo | Description                                                                                                                                                                                                                                                                                                                                                                      | Frame Size | 3-Pole Cat. No.<br>(Pkg. Qty. 3) | 4-Pole Cat. No.<br>(Pkg. Qty. 4) |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------|----------------------------------|
|                                                                                                           | <b>Extended Terminals</b><br>for busbar or ring type connection <ul style="list-style-type: none"> <li>G- &amp; I-frame supplied with 100 mm phase barrier</li> <li>H- &amp; J-frame supplied with insulator, 100 mm phase barrier, and terminal cover</li> <li>K- &amp; N-/NS-frame supplied with insulator and 100 mm phase barrier</li> <li>M-frame terminals only</li> </ul> | G          | 140G-G-EXT3                      | 140G-G-EXT4                      |
|                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | H          | 140G-H-EXT3                      | 140G-H-EXT4                      |
|                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | I          | 140G-I-EXT3                      | 140G-I-EXT4                      |
|                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | J          | 140G-J-EXT3                      | 140G-J-EXT4                      |
|                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | K          | 140G-K-EXT3                      | 140G-K-EXT4                      |
|                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | M          | 140G-M-EXT3                      | 140G-M-EXT4                      |
|                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | N, NS      | 140G-N-EXT3                      | 140G-N-EXT4                      |

### Spreader Terminals

| <br>Representative Photo  | Description                                                                                                                                                                                                                                                                                                                                                                               | Frame Size | 3-Pole Cat. No.<br>(Pkg. Qty. 3) | 4-Pole Cat. No.<br>(Pkg. Qty. 4) |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------|----------------------------------|
|                                                                                                            | <b>Spreader Terminals</b><br>for busbar or ring type connection <ul style="list-style-type: none"> <li>G- &amp; I-frame supplied with 200 mm phase barrier</li> <li>H- &amp; J-frame supplied with insulator, 100 mm phase barrier, and terminal cover</li> <li>K- &amp; N-/NS-frame supplied with insulator and 100 mm phase barrier</li> <li>M- &amp; R-frame terminals only</li> </ul> | G          | 140G-G-EXS3                      | 140G-G-EXS4                      |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | H          | 140G-H-EXS3                      | 140G-H-EXS4                      |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | I          | 140G-I-EXS3                      | 140G-I-EXS4                      |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | J          | 140G-J-EXS3                      | 140G-J-EXS4                      |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | K          | 140G-K-EXS3                      | 140G-K-EXS4                      |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | M          | —                                | 140G-M-EXS4                      |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | N, NS      | —                                | 140G-N-EXS4                      |
|                                                                                                            | <b>Top Spreader Terminals</b><br>for busbar or ring type connection <ul style="list-style-type: none"> <li>M-frame terminals only</li> </ul>                                                                                                                                                                                                                                              | R          | 140G-R-EXS3                      | 140G-R-EXS4                      |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | M          | 140G-M-EXSLI3                    | —                                |
| <br>Representative Photo | <b>Bottom Spreader Terminals</b><br>for busbar or ring type connection <ul style="list-style-type: none"> <li>N-/NS-frame supplied with insulator and 100 mm phase barrier</li> </ul>                                                                                                                                                                                                     | N, NS      | 140G-N-EXSLI3                    | —                                |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | M          | 140G-M-EXSLO3                    | —                                |
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                           | N, NS      | 140G-N-EXSLO3                    | —                                |

### Rear Terminals

| Description                                                                         |                                | Frame Size | 3-Pole Cat. No.<br>(Pkg. Qty. 3) | 4-Pole Cat. No.<br>(Pkg. Qty. 4) |
|-------------------------------------------------------------------------------------|--------------------------------|------------|----------------------------------|----------------------------------|
|  | Rear flat horizontal terminals | N, NS      | 140G-N-TLH3                      | 140G-N-TLH4                      |
|  | Rear flat vertical terminals   | N, NS      | 140G-N-TLV3                      | 140G-N-TLV4                      |
|  |                                | R ★        | 140G-R-TLV3                      | 140G-R-TLV4                      |

★ 2000 A and 2500 A MCCBs only.

# Molded Case Circuit Breakers

## Accessories

### Phase Barriers

- Provides additional clearance when special connections that extend beyond the frame of the MCCB are used.
- Frames G, H, I, J, and K are supplied with 25 mm barriers as standard.

|  <p><b>Representative Photo</b></p> | Frame Size | Length         | 3-Pole Cat. No.<br>(Pkg. Qty. 4) | 4-Pole Cat. No.<br>(Pkg. Qty. 6) |
|----------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------------------|----------------------------------|
|                                                                                                                      | G, I       | 1 in. (25 mm)  | 140G-G-PB3M                      | 140G-G-PB4M                      |
|                                                                                                                      |            | 4 in. (100 mm) | 140G-G-PB3L                      | 140G-G-PB4L                      |
|                                                                                                                      |            | 8 in. (200 mm) | 140G-G-PB3H                      | 140G-G-PB4H                      |
|                                                                                                                      | H, J       | 1 in. (25 mm)  | 140G-H-PB3M                      | 140G-H-PB4M                      |
|                                                                                                                      |            | 4 in. (100 mm) | 140G-H-PB3L                      | 140G-H-PB4L                      |
|                                                                                                                      |            | 8 in. (200 mm) | 140G-H-PB3H                      | 140G-H-PB4H                      |
|                                                                                                                      | K, N, NS   | 4 in. (100 mm) | 140G-K-PB3L                      | 140G-K-PB4L                      |
|                                                                                                                      |            | 8 in. (200 mm) | 140G-K-PB3H                      | 140G-K-PB4H                      |
|                                                                                                                      | M          | 4 in. (100 mm) | 140G-M-PB3L                      | 140G-M-PB4L                      |
|                                                                                                                      | R          | 4 in. (100 mm) | 140G-R-PB3L                      | 140G-R-PB4L                      |
|                                                                                                                      |            | 8 in. (200 mm) | 140G-R-PB3H                      | 140G-R-PB4H                      |

### Terminal Covers

- Provide IP40 finger protection against accidental contact with live parts.
- Terminal covers are pre-punched to ease installation.
- Supplied as standard with the selection of multiple cable terminal lugs.

|  <p><b>Representative Photo</b></p> | Frame Size | Height           | 3-Pole Cat. No.<br>(Pkg. Qty. 2) | 4-Pole Cat. No.<br>(Pkg. Qty. 2) |
|-----------------------------------------------------------------------------------------------------------------------|------------|------------------|----------------------------------|----------------------------------|
|                                                                                                                       | G          | 0.08 in. (2 mm)  | 140G-G-TC3L                      | 140G-G-TC4L                      |
|                                                                                                                       |            | 2 in. (50 mm)    | 140G-G-TC3H                      | 140G-G-TC4H                      |
|                                                                                                                       | H          | 0.08 in. (2 mm)  | 140G-H-TC3L                      | 140G-H-TC4L                      |
|                                                                                                                       |            | 2 in. (50 mm)    | 140G-H-TC3H                      | 140G-H-TC4H                      |
|                                                                                                                       | I          | 0.08 in. (2 mm)  | 140G-I-TC3L                      | 140G-I-TC4L                      |
|                                                                                                                       |            | 2.36 in. (60 mm) | 140G-I-TC3H                      | 140G-I-TC4H                      |
|                                                                                                                       | J          | 0.08 in. (2 mm)  | 140G-J-TC3L                      | 140G-J-TC4L                      |
|                                                                                                                       |            | 2.36 in. (60 mm) | 140G-J-TC3H                      | 140G-J-TC4H                      |
|                                                                                                                       | K          | 0.08 in. (2 mm)  | 140G-K-TC3L                      | 140G-K-TC4L                      |
|                                                                                                                       |            | 2.36 in. (60 mm) | 140G-K-TC3H                      | 140G-K-TC4H                      |
|                                                                                                                       | M          | 0.08 in. (2 mm)  | 140G-M-TC3L                      | 140G-M-TC4L                      |
|                                                                                                                       |            | 2.36 in. (60 mm) | 140G-M-TC3H                      | 140G-M-TC4H                      |
|                                                                                                                       | N, NS      | 0.1 in. (2.5 mm) | 140G-N-TC3L                      | 140G-N-TC4L                      |
|                                                                                                                       |            | 2.76 in. (70 mm) | 140G-N-TC3H                      | 140G-N-TC4H                      |

### Variable Depth Rotary Operating Kits

#### Rotary, Variable Depth Operators

- Supplied with external handle, operating shaft, and MCCB mounted operating mechanism.
- Refer to page 56 to select as components.
- Frames G, H, I, and J use a Bul. 140U P-style handle.
- Frames K, M, and N use a Bul. 140U medium style handle.

|                                                                                                                  | Frame Size | Handle Color | Shaft Length      | Cat. No.      |
|------------------------------------------------------------------------------------------------------------------|------------|--------------|-------------------|---------------|
| <br><b>Representative Photo</b> | G, I       | Black        | 12 in. (30.48 mm) | 140G-G-RVM12B |
|                                                                                                                  |            | Red/Yellow   |                   | 140G-G-RVM12R |
|                                                                                                                  |            | Black        | 21 in. (53.34 mm) | 140G-G-RVM21B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-G-RVM21R |
|                                                                                                                  | H, J       | Black        | 12 in. (30.48 mm) | 140G-H-RVM12B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-H-RVM12R |
|                                                                                                                  |            | Black        | 21 in. (53.34 mm) | 140G-H-RVM21B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-H-RVM21R |
| <br><b>Representative Photo</b> | K          | Black        | 12.6 in. (320 mm) | 140G-K-RVM12B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-K-RVM12R |
|                                                                                                                  |            | Black        | 22.8 in. (580 mm) | 140G-K-RVM21B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-K-RVM21R |
|                                                                                                                  | M          | Black        | 12.6 in. (320 mm) | 140G-M-RVM12B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-M-RVM12R |
|                                                                                                                  |            | Black        | 22.8 in. (580 mm) | 140G-M-RVM21B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-M-RVM21R |
|                                                                                                                  | N          | Black        | 12.6 in. (320 mm) | 140G-N-RVM12B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-N-RVM12R |
|                                                                                                                  |            | Black        | 22.8 in. (580 mm) | 140G-N-RVM21B |
|                                                                                                                  |            | Red/yellow   |                   | 140G-N-RVM21R |

#### Rotary, Variable Depth Operators with Internal NFPA 79 Operating Handle

- Supplied with external handle, NFPA handle with operating shaft, support bracket, and MCCB mounted operating mechanism.
- Refer to page 58 to select as components.
- Frames G, H, I, and J use a Bul. 140U P-style handle.
- Frames K, M, and N use a Bul. 140U medium style handle.

|                                                                                                                    | Frame Size | Handle Color | Shaft Length      | Cat. No.      |
|--------------------------------------------------------------------------------------------------------------------|------------|--------------|-------------------|---------------|
| <br><b>Representative Photo</b> | G, I       | Black        | 12 in. (30.48 mm) | 140G-G-NVM12B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-G-NVM12R |
|                                                                                                                    |            | Black        | 21 in. (53.34 mm) | 140G-G-NVM21B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-G-NVM21R |
|                                                                                                                    | H, J       | Black        | 12 in. (30.48 mm) | 140G-H-NVM12B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-H-NVM12R |
|                                                                                                                    |            | Black        | 21 in. (53.34 mm) | 140G-H-NVM21B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-H-NVM21R |
| <br><b>Representative Photo</b> | K          | Black        | 12.6 in. (320 mm) | 140G-K-NVM12B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-K-NVM12R |
|                                                                                                                    |            | Black        | 22.8 in. (580 mm) | 140G-K-NVM21B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-K-NVM21R |
|                                                                                                                    | M          | Black        | 12.6 in. (320 mm) | 140G-M-NVM12B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-M-NVM12R |
|                                                                                                                    |            | Black        | 22.8 in. (580 mm) | 140G-M-NVM21B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-M-NVM21R |
|                                                                                                                    | N          | Black        | 12.6 in. (320 mm) | 140G-N-NVM12B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-N-NVM12R |
|                                                                                                                    |            | Black        | 22.8 in. (580 mm) | 140G-N-NVM21B |
|                                                                                                                    |            | Red/yellow   |                   | 140G-N-NVM21R |

# Molded Case Circuit Breakers

## Accessories

### Variable Depth Rotary Components

| <br><b>Representative Photo</b> | Description                                                                                                                                                                                       | Handle Color | Frame Size | Cat. No.  |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|-----------|
|                                                                                                                  | <ul style="list-style-type: none"> <li>P-style handle for G, H, I, and J frames</li> <li>Medium handles for K, M, and N frames</li> <li>Rated 3/3R/4/4X/12</li> <li>Accepts 3 padlocks</li> </ul> | Black/Grey   | G, H, I, J | 140U-PB   |
|                                                                                                                  |                                                                                                                                                                                                   | Red/Yellow   |            | 140U-PY   |
|                                                                                                                  |                                                                                                                                                                                                   | Black/Grey   | K, M, N    | 140U-HM4  |
|                                                                                                                  |                                                                                                                                                                                                   | Red/Yellow   |            | 140U-HM4E |

| <br><b>Representative Photo</b> | Description     | Shaft Length    | Frame Size | Cat. No. |
|------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|------------|----------|
|                                                                                                                  | Extension Shaft | 12 in. (305 mm) | G, H, I, J | 194R-S1  |
|                                                                                                                  |                 | 21 in. (533 mm) |            | 194R-S2  |
|                                                                                                                  |                 | 12 in. (305 mm) | K, M, N    | 140U-R5  |
|                                                                                                                  |                 | 21 in. (533 mm) |            | 140U-R6  |

| <br><b>Representative Photo</b> | Description                                                                                                                                                                   | Shaft Length    | Frame Size | Cat. No. |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|----------|
|                                                                                                                  | <b>NFPA 79 internal operating handle with shaft</b><br>Internal handle permits operation of the molded case circuit breaker when the door is open in compliance with NFPA 79. | 12 in. (305 mm) | G, H, I, J | 140G-N1  |
|                                                                                                                  |                                                                                                                                                                               | 21 in. (533 mm) |            | 140G-N2  |
|                                                                                                                  |                                                                                                                                                                               | 12 in. (305 mm) | K, M, N    | 140G-N7  |
|                                                                                                                  |                                                                                                                                                                               | 21 in. (533 mm) |            | 140G-N8  |

| <br><b>Representative Photo</b> | Description                                                                                                                                                                                                                                                                                                                                                                | Frame Size | Cat. No.   |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
|                                                                                                                  | <b>Rotary, Variable Depth Operating Mechanism</b> <ul style="list-style-type: none"> <li>Direct molded case circuit breaker mount</li> <li>G, H, I, and J frame use 194R-S1 or 194R-S2 shafts (140G-N1 or 140G-N2 NFPA)</li> <li>K, M, and N frames use 194R-R7 or 194R-R8 shafts (140G-R7 or 140G-R8 NFPA)</li> <li>Shaft secured with set screw or cotter pin</li> </ul> | G, I       | 140G-G-RMX |
|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                            | H, J       | 140G-H-RMX |
|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                            | K          | 140G-K-RMX |
|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                            | M          | 140G-M-RMX |
|                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                            | N          | 140G-N-RMX |

| Description                                                                           | Frame Size | Cat. No.   |
|---------------------------------------------------------------------------------------|------------|------------|
| <b>Support Bracket</b><br>Supplied as standard with NFPA variable depth operator kits | G, H, I, J | 140G-G-OSB |
|                                                                                       | K          | 140G-K-OSB |
|                                                                                       | M          | 140G-M-OSB |
|                                                                                       | N          | 140G-N-OSB |

### Auxiliary Contacts for Handle Mechanism Mounting

Suitable for:

- 140G-G-RMB, -RMY, RMX
- 140G-H-RMB, -RMY, RMX
- 140G-K-RMB, -RMY, RMX
- 140G-M-RMB, -RMY, RMX

| <br><b>Representative Photo</b> | Description                                        | Pkg. Qty | Frame Size | Cat. No.     |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------|------------|--------------|
|                                                                                                                    | Early Make Handle Auxiliary Contact<br>Open 400V   | 2        | G, H, I, J | 140G-G-EAM1B |
|                                                                                                                    | Early Break Handle Auxiliary Contact<br>Close 400V | 2        |            | 140G-G-EAB1B |
|                                                                                                                    | Early Make Handle Auxiliary Contact<br>Close 250V  | 2        | K          | 140G-K-EAM1A |
|                                                                                                                    |                                                    |          | M          | 140G-M-EAM1A |

### Direct Rotary Operators

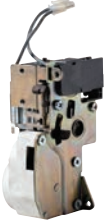
- Mount with direct handle operation of the MCCB.
- Lockable in OFF position (three padlocks max.).

| <br><b>Representative Photo</b><br><br><b>Representative Photo</b> | Frame Size | Handle Color | Cat. No.   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|------------|
|                                                                                                                                                                                                                                      | G, I       | Black        | 140G-G-RMB |
|                                                                                                                                                                                                                                      |            | Red/yellow   | 140G-G-RMY |
|                                                                                                                                                                                                                                      | H, J       | Black        | 140G-H-RMB |
|                                                                                                                                                                                                                                      |            | Red/yellow   | 140G-H-RMY |
|                                                                                                                                                                                                                                      | K          | Black        | 140G-K-RMB |
|                                                                                                                                                                                                                                      |            | Red/yellow   | 140G-K-RMY |
|                                                                                                                                                                                                                                      | M          | Black        | 140G-M-RMB |
|                                                                                                                                                                                                                                      |            | Red/yellow   | 140G-M-RMY |
|                                                                                                                                                                                                                                      | N          | Black        | 140G-N-RMB |
|                                                                                                                                                                                                                                      |            | Red/yellow   | 140G-N-RMY |

### Motor Operators

- Remotely opens, closes, and resets the MCCB.
- Frame G & I motor operators are supplied with auto/manual selector, test feature, and special tool for local operation of the MCCB.
- Frames H, J, K, and M utilize a stored energy motor for local control of the motor without the use of special tools and include auto/manual/lock selection, lever to recharge the motor, and open & close push button operation.

| Description                                                                                                        | Frame Size | Cat. No.                        |
|--------------------------------------------------------------------------------------------------------------------|------------|---------------------------------|
| <br><b>Representative Photo</b>  | G, I       | 24V DC<br>140G-G-EOPJ           |
|                                                                                                                    |            | 48...60V DC<br>140G-G-EOPKY     |
|                                                                                                                    |            | 110...125V AC/DC<br>140G-G-EOPD |
|                                                                                                                    |            | 220...250V AC/DC<br>140G-G-EOPA |
|                                                                                                                    |            | 380...440V AC<br>140G-G-EOPB    |
|                                                                                                                    |            | 480...525V AC<br>140G-G-EOPC    |
| <br><b>Representative Photo</b> | H, J       | 24V DC<br>140G-H-EOPJ           |
|                                                                                                                    |            | 48...60V DC<br>140G-H-EOPKY     |
|                                                                                                                    |            | 110...125V AC/DC<br>140G-H-EOPD |
|                                                                                                                    |            | 220...250V AC/DC<br>140G-H-EOPA |
|                                                                                                                    |            | 380...440V AC<br>140G-H-EOPB    |
|                                                                                                                    |            | 480...525V AC<br>140G-H-EOPC    |
| <br><b>Representative Photo</b> | K          | 24V DC<br>140G-K-EOPJ           |
|                                                                                                                    |            | 48...60V DC<br>140G-K-EOPKY     |
|                                                                                                                    |            | 110...125V AC/DC<br>140G-K-EOPD |
|                                                                                                                    |            | 220...250V AC/DC<br>140G-K-EOPA |
|                                                                                                                    |            | 380V AC<br>140G-K-EOPB          |
|                                                                                                                    | M          | 24V DC<br>140G-M-EOPJ           |
|                                                                                                                    |            | 48...60V DC<br>140G-M-EOPKY     |
|                                                                                                                    |            | 110...125V AC/DC<br>140G-M-EOPD |
|                                                                                                                    |            | 220...250V AC/DC<br>140G-M-EOPA |
|                                                                                                                    |            | 380V AC<br>140G-M-EOPB          |

| Description                                                                                                        | Frame Size | Cat. No.                         |
|--------------------------------------------------------------------------------------------------------------------|------------|----------------------------------|
| <br><b>Representative Photo</b> | NS         | 220...250V DC<br>140G-NS-SCMA    |
|                                                                                                                    |            | 380...415V AC<br>140G-NS-SCMB    |
|                                                                                                                    |            | 100...130V AC/DC<br>140G-NS-SCMD |
|                                                                                                                    |            | 24...30V DC<br>140G-NS-SCMJ      |
|                                                                                                                    |            | 48...60V AC/DC<br>140G-NS-SCMKY  |
|                                                                                                                    | R          | 220...250V DC<br>140G-R-SCMA     |
|                                                                                                                    |            | 100...130V AC/DC<br>140G-R-SCMD  |
|                                                                                                                    |            | 24...30V DC<br>140G-R-SCMJ       |
|                                                                                                                    |            | 48...60V AC/DC<br>140G-R-SCMKY   |
|                                                                                                                    |            |                                  |

# Molded Case Circuit Breakers

## Accessories

### Flex Cable Operators

- For use with NEMA-style flange enclosures.
- Includes handle, MCCB operator, cable, and necessary hardware.
- Pre-assembled for ease of installation.



*Representative Photo*

| Frame Size | Handle Type                              | Cable Length  | Cat. No.     |
|------------|------------------------------------------|---------------|--------------|
| G, I       | Non-metallic Handle,<br>Type 1/3/12/4/4X | 4 ft (1.3 m)  | 140G-G-FCX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-G-FCX06 |
|            |                                          | 10 ft (3.0 m) | 140G-G-FCX10 |
|            | Stainless Steel Handle,<br>Type 4/4X     | 4 ft (1.3 m)  | 140G-G-FCS04 |
|            |                                          | 6 ft (1.9 m)  | 140G-G-FCS06 |
|            |                                          | 10 ft (3.0 m) | 140G-G-FCS10 |
|            | Painted Metal Handle,<br>Type 1/12       | 4 ft (1.3 m)  | 140G-G-FMX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-G-FMX06 |
|            |                                          | 10 ft (3.0 m) | 140G-G-FMX10 |
| H          | Non-metallic Handle,<br>Type 1/3/12/4/4X | 4 ft (1.3 m)  | 140G-H-FCX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-H-FCX06 |
|            |                                          | 10 ft (3.0 m) | 140G-H-FCX10 |
|            | Stainless Steel Handle,<br>Type 4/4X     | 4 ft (1.3 m)  | 140G-H-FCS04 |
|            |                                          | 6 ft (1.9 m)  | 140G-H-FCS06 |
|            |                                          | 10 ft (3.0 m) | 140G-H-FCS10 |
|            | Painted Metal Handle,<br>Type 1/12       | 4 ft (1.3 m)  | 140G-H-FMX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-H-FMX06 |
|            |                                          | 10 ft (3.0 m) | 140G-H-FMX10 |
| J          | Non-metallic Handle,<br>Type 1/3/12/4/4X | 4 ft (1.3 m)  | 140G-J-FCX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-J-FCX06 |
|            |                                          | 10 ft (3.0 m) | 140G-J-FCX10 |
|            | Stainless Steel Handle,<br>Type 4/4X     | 4 ft (1.3 m)  | 140G-J-FCS04 |
|            |                                          | 6 ft (1.9 m)  | 140G-J-FCS06 |
|            |                                          | 10 ft (3.0 m) | 140G-J-FCS10 |
|            | Painted Metal Handle,<br>Type 1/12       | 4 ft (1.3 m)  | 140G-J-FMX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-J-FMX06 |
|            |                                          | 10 ft (3.0 m) | 140G-J-FMX10 |
| K          | Non-metallic Handle,<br>Type 1/3/12/4/4X | 4 ft (1.3 m)  | 140G-K-FCX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-K-FCX06 |
|            |                                          | 10 ft (3.0 m) | 140G-K-FCX10 |
|            | Stainless Steel Handle,<br>Type 4/4X     | 4 ft (1.3 m)  | 140G-K-FCS04 |
|            |                                          | 6 ft (1.9 m)  | 140G-K-FCS06 |
|            |                                          | 10 ft (3.0 m) | 140G-K-FCS10 |
|            | Painted Metal Handle,<br>Type 1/12       | 4 ft (1.3 m)  | 140G-K-FMX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-K-FMX06 |
|            |                                          | 10 ft (3.0 m) | 140G-K-FMX10 |
| M          | Stainless Steel Handle,<br>Type 4/4X     | 4 ft (1.3 m)  | 140G-M-FCS04 |
|            |                                          | 6 ft (1.9 m)  | 140G-M-FCS06 |
|            |                                          | 10 ft (3.0 m) | 140G-M-FCS10 |
|            | Painted Metal Handle,<br>Type 1/12       | 4 ft (1.3 m)  | 140G-M-FMX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-M-FMX06 |
|            |                                          | 10 ft (3.0 m) | 140G-M-FMX10 |
| N          | Stainless Steel Handle,<br>Type 4/4X     | 4 ft (1.3 m)  | 140G-N-FCS04 |
|            |                                          | 6 ft (1.9 m)  | 140G-N-FCS06 |
|            |                                          | 10 ft (3.0 m) | 140G-N-FCS10 |
|            | Painted Metal Handle,<br>Type 1/12       | 4 ft (1.3 m)  | 140G-N-FMX04 |
|            |                                          | 6 ft (1.9 m)  | 140G-N-FMX06 |
|            |                                          | 10 ft (3.0 m) | 140G-N-FMX10 |



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



Components

Circuit Breaker Operating Mechanism

The mechanism listed must be combined with a connecting rod, operating handle, and a circuit breaker (supplied by customer) to obtain a functional device.

| 3-Pole Circuit Breaker ★ |                |                   | Operating Mechanism |
|--------------------------|----------------|-------------------|---------------------|
| Brand                    | Frame Size [A] | Frame Designation | Cat. No.            |
| Allen-Bradley            | 125, 225, 250  | 140G-G, H, I, J   | <b>1494V-M70</b>    |
| Allen-Bradley            | 400            | 140G-K            | <b>1494V-M71</b>    |
| Allen-Bradley            | 800, 1200      | 140G-M, N         | <b>1494V-M72</b>    |

★ Circuit breakers to be provided by customer.

Connecting Rods

Approximate dimensions are in inches (millimeters). Approximate dimensions are not intended for manufacturing purposes.

| Circuit Breaker<br>Frame Size [A]  | Enclosure Depth |              | Cat. No.         |
|------------------------------------|-----------------|--------------|------------------|
|                                    | Minimum         | Maximum      |                  |
| 125, 150, 250, 400, 600, 800, 1200 | 6-3/4 (172)     | 9-1/8 (232)  | <b>1494V-RA3</b> |
|                                    | 6-3/4 (172)     | 21-5/8 (549) | <b>1494V-RA4</b> |

Operating Handle

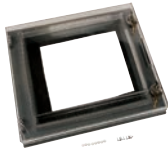
| Handle Type           | Description     | Circuit Breaker<br>Frame Size [A] | Operating Handle |
|-----------------------|-----------------|-----------------------------------|------------------|
|                       |                 |                                   | Cat. No.         |
| Type 1, 3R, 4, 4X, 12 | Nonmetallic     | 125, 150, 250, 400                | <b>1494F-P1</b>  |
| Type 1, 3R, 4, 12     | Painted Metal   | 125, 150, 250, 400                | <b>1494F-M1</b>  |
| Type 4, 4X            | Stainless Steel | 125, 150, 250, 400                | <b>1494F-S1</b>  |
| Type 1, 3R, 4, 12     | Painted Metal   | 800, 1200                         | <b>1494F-M2</b>  |
| Type 4, 4X            | Stainless Steel | 800, 1200                         | <b>1494F-S2</b>  |

Auxiliary Contacts

| Description                                                                          | For Use With                                             | Contact Type | Cat. No.        |
|--------------------------------------------------------------------------------------|----------------------------------------------------------|--------------|-----------------|
| <b>Auxiliary Contact Kit for Circuit Breakers</b><br>(includes contacts and adapter) | 125...1200 A Allen-Bradley Bul. 140G<br>Circuit Breakers | 1 N.O.       | <b>1495-N85</b> |
|                                                                                      |                                                          | 1 N.C.       | <b>1495-N86</b> |

Bulletin 140G  
**Molded Case Circuit Breakers**  
Accessories

**Additional Accessories**

|                                                                                                                    | Description                                                                                                                                     | Frame Size | Cat. No.        |                 |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------|-----------------|
| <br><b>Representative Photo</b>   | <b>Trip Test Unit</b><br><br><b>Padlockable Handle Block</b><br>Padlocking Hasp<br>Lock-OFF only                                                | All        | 140G-ELTT       |                 |
|                                                                                                                    |                                                                                                                                                 | G, I       | 140G-G-PL       |                 |
|                                                                                                                    |                                                                                                                                                 | H, J       | 140G-H-PL       |                 |
|                                                                                                                    |                                                                                                                                                 | N          | 140G-N-PL       |                 |
|                                                                                                                    |                                                                                                                                                 | NS         | 140G-NS-PL      |                 |
|                                                                                                                    |                                                                                                                                                 | R          | 140G-R-PL       |                 |
| <br><b>Representative Photo</b>   | <b>Direct Mechanical Lock to Door</b>                                                                                                           | N, NS      | 140G-N-SINT     |                 |
|                                                                                                                    | Description                                                                                                                                     | Frame Size | 3-Pole Cat. No. | 4-Pole Cat. No. |
| <br><b>Representative Photo</b>   | <b>Replacement Mounting Hardware</b><br>Metric threads                                                                                          | G, I       | ★ 140G-G-MH3    | ‡ 140G-G-MH4    |
|                                                                                                                    |                                                                                                                                                 | H, J       | —               | ★ 140G-H-MH4    |
|                                                                                                                    |                                                                                                                                                 | K          | —               | § 140G-K-MH4    |
|                                                                                                                    |                                                                                                                                                 | M          | —               | § 140G-M-MH4    |
|                                                                                                                    |                                                                                                                                                 | N, NS      | —               | § 140G-N-MH4    |
|                                                                                                                    |                                                                                                                                                 | G          | 140G-G-DRA      | 140G-G-DRA4     |
| <br><b>Representative Photo</b>  | <b>DIN Rail Adapter</b><br>Adapts to 35 mm DIN Rail                                                                                             | H, J       | 140G-H-DRA      |                 |
|                                                                                                                    |                                                                                                                                                 | I          | 140G-I-DRA      | 140G-I-DRA4     |
|                                                                                                                    |                                                                                                                                                 | G          | 140G-G-EP3      | 140G-G-EP4      |
| <br><b>Representative Photo</b> | <b>Escutcheon Plates</b><br>Finish Frame with Marking provision window. For flush mounted (to door) MCCB applications.                          | H          | 140G-H-EP3      | 140G-H-EP4      |
|                                                                                                                    |                                                                                                                                                 | I          | 140G-I-MH3      | 140G-I-MH4      |
|                                                                                                                    |                                                                                                                                                 | J          | 140G-J-MH3      | 140G-J-MH4      |
|                                                                                                                    |                                                                                                                                                 | K          | 140G-K-MH3      |                 |
|                                                                                                                    |                                                                                                                                                 | M          | 140G-M-MH3      |                 |
|                                                                                                                    |                                                                                                                                                 | N, NS      | 140G-N-MH3      |                 |
|                                                                                                                    |                                                                                                                                                 | R          | 140G-R-MH3      |                 |
|                                                                                                                    |                                                                                                                                                 |            |                 |                 |
| <br><b>Representative Photo</b> | <b>IP54 Door protection</b><br>Transparent plastic cover flush mounted to the enclosure door. Mounted on hinges and provided with a keyed lock. | N, NS      | 140G-N-BC12     |                 |
|                                                                                                                    |                                                                                                                                                 | R          | 140G-R-BC12     |                 |

- ★ Pkg. Qty. 2  
‡ Pkg. Qty. 3  
§ Pkg. Qty. 4

## Replacement Parts

|                                                                                                                  |                                                                                                                                                                                        |                   |                        |                        |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------|------------------------|
| <br><b>Representative Photo</b> | <b>Description</b><br><br><b>Replacement End Cap Kits</b><br>End Caps are supplied as standard for G, H,I,J,K,M,N & NS frames. Provide connections for ring type or bolt-on terminals. | <b>Frame Size</b> | <b>3-Pole Cat. No.</b> | <b>4-Pole Cat. No.</b> |
|                                                                                                                  |                                                                                                                                                                                        | G                 | 140G-G-ECM             | 140G-G-ECM4            |
|                                                                                                                  |                                                                                                                                                                                        | H                 | 140G-H-ECM             | 140G-H-ECM4            |
|                                                                                                                  |                                                                                                                                                                                        | I                 | 140G-I-ECM             | 140G-I-ECM4            |
|                                                                                                                  |                                                                                                                                                                                        | J                 | 140G-J-ECM             | 140G-J-ECM4            |
|                                                                                                                  |                                                                                                                                                                                        | K                 | 140G-K-ECM             | 140G-K-ECM4            |
|                                                                                                                  |                                                                                                                                                                                        | M                 | 140G-M-ECM             | 140G-M-ECM4            |
|                                                                                                                  |                                                                                                                                                                                        | N                 | 140G-N-ECM             | 140G-N-ECM4            |
| <br><b>Representative Photo</b> | <b>Insulators</b><br>Supplied as standard for G, H, I, J, K, and M frames. Provide insulating barrier for MCCB applications, required for all applications with a Ue>440V. Pkg Qty 10. | H                 | 140G-H-BP3             | 140G-H-BP4             |
|                                                                                                                  |                                                                                                                                                                                        | J                 | 140G-J-BP3             | 140G-J-BP4             |
|                                                                                                                  |                                                                                                                                                                                        | K                 | 140G-K-BP3             | 140G-K-BP4             |
|                                                                                                                  |                                                                                                                                                                                        | M                 | 140G-M-BP3             | 140G-M-BP4             |
|                                                                                                                  |                                                                                                                                                                                        |                   |                        |                        |

Bulletin 140G

## Molded Case Circuit Breakers

### Specifications — I- and J-Frame

|                                                                 |           | I-Frame                      |          | J-Frame†                     |      |      |      |
|-----------------------------------------------------------------|-----------|------------------------------|----------|------------------------------|------|------|------|
| Max. Rated Current                                              | [A]       | 225                          |          | 250                          |      |      |      |
| Rated insulation voltage, U <sub>i</sub> , IEC                  | [V]       | 800                          |          | 1000                         |      |      |      |
| NEMA, UL, CSA                                                   |           |                              |          |                              |      |      |      |
| Interrupting Rating Code                                        |           | I2                           | I3       | J2                           | J3   | J6   | J0   |
| 240V AC, 50/60Hz                                                | [kA]      | 50                           | 65       | 65                           | 100  | 150  | 200  |
| 480V AC, 50/60Hz                                                | [kA]      | 25                           | 35       | 25                           | 35   | 65   | 100  |
| 600Y/347V AC, 50/60Hz                                           | [kA]      | 10                           | 10       | —                            | —    | —    | —    |
| 600V AC, 50/60 Hz                                               | [kA]      | —                            | —        | 14                           | 18   | 25   | 35   |
| IEC 60947-2                                                     |           |                              |          |                              |      |      |      |
| Rated ultimate short-circuit breaking capacity, I <sub>cu</sub> |           |                              |          |                              |      |      |      |
| 220/230/240V AC, 50/60Hz                                        | [kA]      | 50                           | 85       | 65                           | 85   | 100  | 150  |
| 380V AC, 50/60Hz                                                | [kA]      | 36                           | 50       | 36                           | 50   | 70   | 120  |
| 415V AC, 50/60Hz                                                | [kA]      | 36                           | 50       | 36                           | 50   | 70   | 120  |
| 440V AC, 50/60Hz                                                | [kA]      | 25                           | 40       | 36                           | 50   | 65   | 100  |
| 500V AC, 50/60Hz                                                | [kA]      | 20                           | 30       | 30                           | 36   | 50   | 60   |
| 525V AC, 50/60Hz                                                | [kA]      | 13                           | 20       | 20                           | 25   | 45   | 50   |
| 690V AC, 50/60Hz                                                | [kA]      | 5                            | 6        | 10                           | 12   | 15   | 20   |
| 250V DC, 2 Poles in Series                                      | [kA]      | 36                           | 50       | 36                           | 50   | 70   | 85   |
| 500V DC, 2 Poles in Series                                      | [kA]      | —                            | —        | 36                           | 50   | 70   | 85   |
| 500V DC, 3 Poles in Series                                      | [kA]      | 36                           | 50       | 36                           | 50   | 70   | 85   |
| 750V DC, 3 Poles in Series                                      | [kA]      | —                            | —        | —                            | —    | —    | —    |
| Rated service short-circuit breaking capacity, I <sub>cs</sub>  |           |                              |          |                              |      |      |      |
| 220/230/240V AC, 50/60Hz                                        | [kA]      | 75%                          | 50%      | 100%                         | 100% | 100% | 100% |
| 380V AC, 50/60Hz                                                | [kA]      | 75%                          | 50% (27) | 100%                         | 100% | 100% | 100% |
| 415V AC, 50/60Hz                                                | [kA]      | 75%                          | 50% (27) | 100%                         | 100% | 100% | 100% |
| 440V AC, 50/60Hz                                                | [kA]      | 75%                          | 50%      | 100%                         | 100% | 100% | 100% |
| 500V AC, 50/60Hz                                                | [kA]      | 75%                          | 50%      | 100%                         | 100% | 100% | 100% |
| 525V AC, 50/60Hz                                                | [kA]      | 75%                          | 50%      | 100%                         | 100% | 100% | 100% |
| 690V AC, 50/60Hz                                                | [kA]      | 50%                          | 50%      | 100%                         | 100% | 100% | 100% |
| 250V DC, 2 Poles in Series                                      | [kA]      | 100%                         | 75%      | 100%                         | 100% | 100% | 100% |
| 500V DC, 2 Poles in Series                                      | [kA]      | —                            | —        | 100%                         | 100% | 100% | 100% |
| 500V DC, 3 Poles in Series                                      | [kA]      | 100%                         | 75%      | 100%                         | 100% | 100% | 100% |
| 750V DC, 3 Poles in Series                                      | [kA]      | —                            | —        | —                            | —    | —    | —    |
| Mechanical Life                                                 | [No. Ops] | 25 000                       |          | 25 000                       |      |      |      |
|                                                                 | [Ops/hr]  | 240                          |          | 240                          |      |      |      |
| Electrical Life @ 415V AC                                       | [No. Ops] | 8000                         |          | 8000                         |      |      |      |
|                                                                 | [Ops/hr]  | 120                          |          | 120                          |      |      |      |
| Ambient Temp. w/out derating                                    | °F [°C]   | 104 °F [40 °C]               |          | 104 °F [40 °C]               |      |      |      |
| Storage Temperature                                             | °F [°C]   | -40...+176 °F [-40...+80 °C] |          | -40...+176 °F [-40...+80 °C] |      |      |      |
| Dimensions [Width/Depth/Height]                                 | [mm]      | 3 poles: 105x70x150          |          | 3 poles: 105x82.5x160        |      |      |      |
|                                                                 | [mm]      | 4 poles: 140x70x150          |          | 4 poles: 140x82.5x160        |      |      |      |

† Cannot be reverse fed above 600V

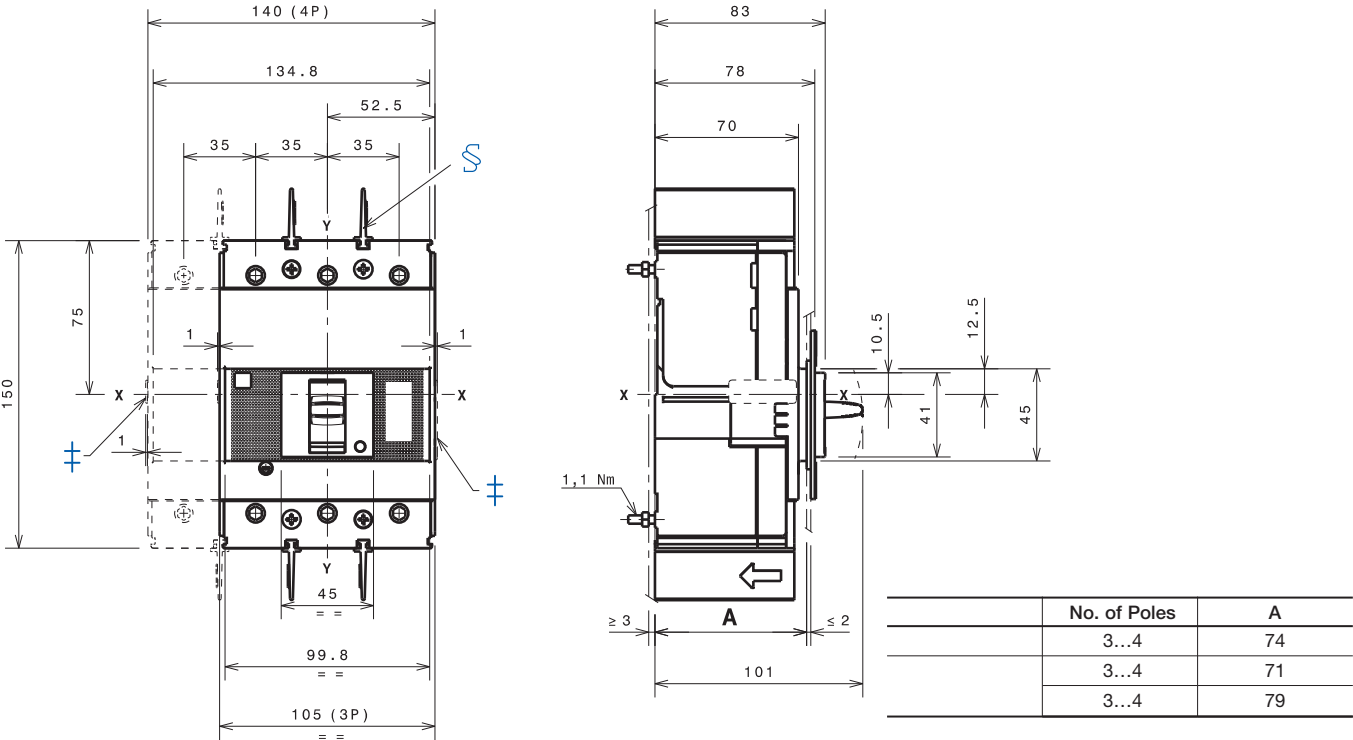
Bulletin 140G

Molded Case Circuit Breakers

Approximate Dimensions — 225 A, I-Frame

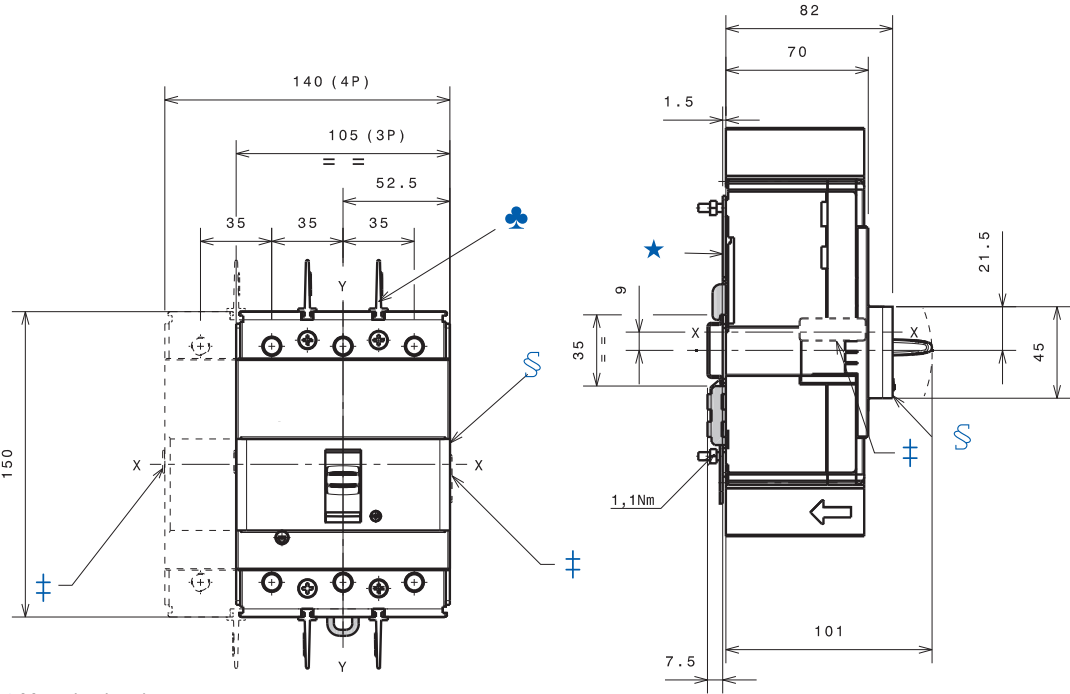
Dimensions are in millimeters. Dimensions are not intended to be used for manufacturing purposes.

Panel Mounted Molded Case Circuit Breaker



- ± Overall dimensions of optional wiring ducts
- § Required 25 mm insulating phases barriers provided

DIN Rail Mounted Molded Case Circuit Breaker

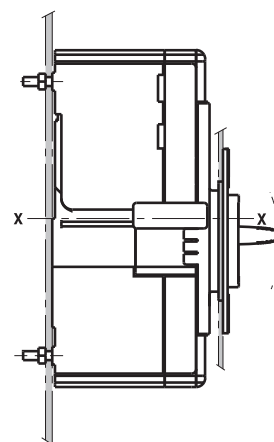
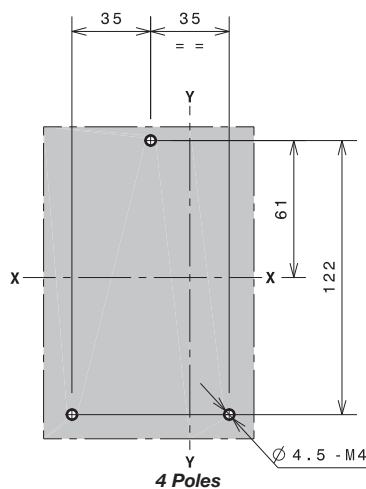
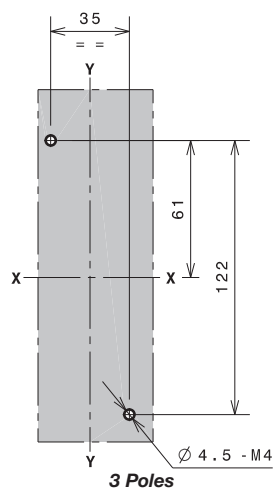


- ★ Mounting bracket
- ± Optional wiring ducts
- § Optional front cover for DIN Rail
- ⬢ Required 25 mm insulating phase barriers provided

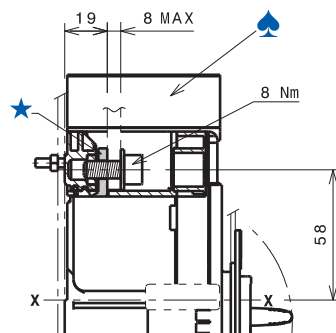
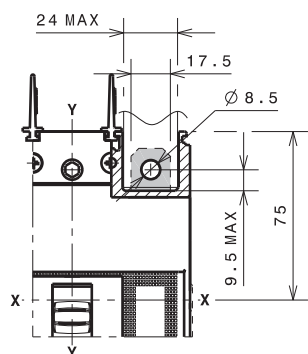
# Molded Case Circuit Breakers

Approximate Dimensions — 225 A, I-Frame

## Drilling Template for Molded Case Circuit Breaker Mounting

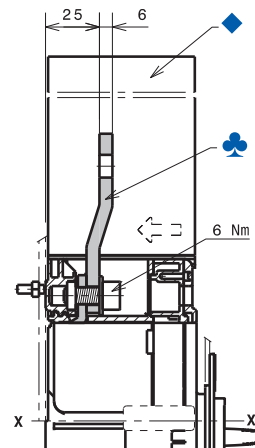
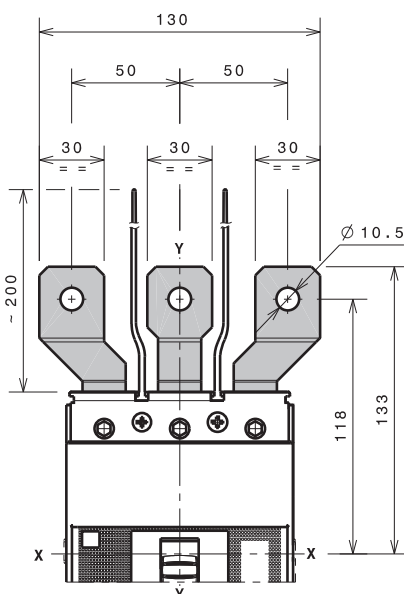
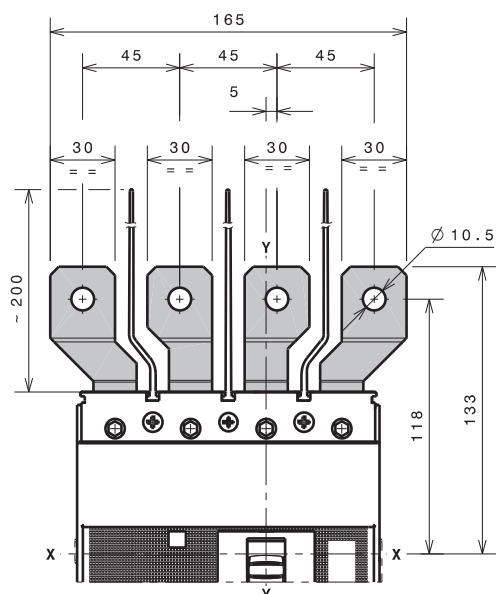


## Cat. Nos. 140G-I-ECM, -ECM4 Terminals



- ★ Front terminals for busbar connection
- ‡ Required 25 mm insulating phase barriers provided

## Cat. Nos. 140G-J-EXS3, -EXS4 Terminals

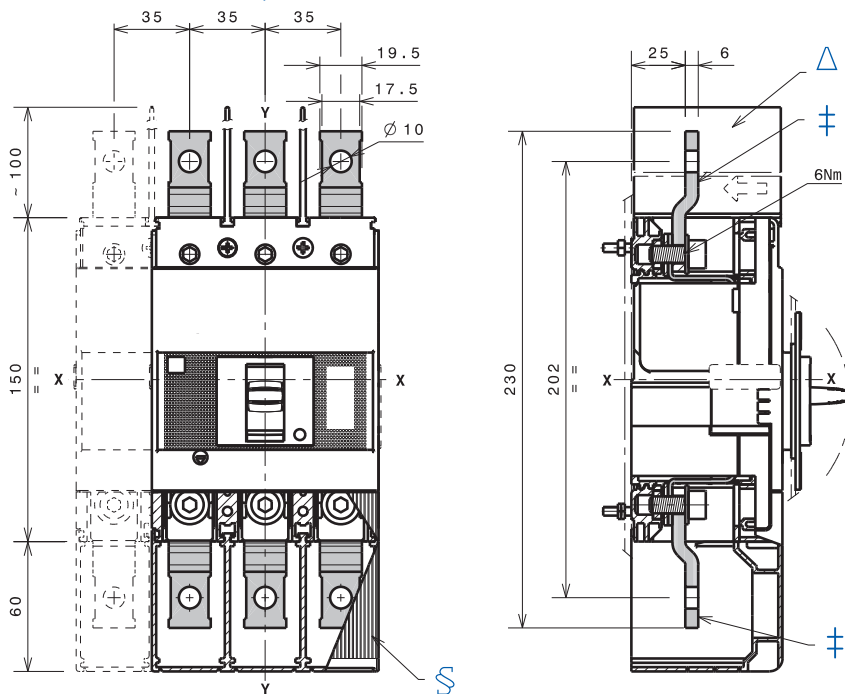


- ◆ Extended spread terminals
- ◆ Required 200 mm insulating phase barriers provided

# Molded Case Circuit Breakers

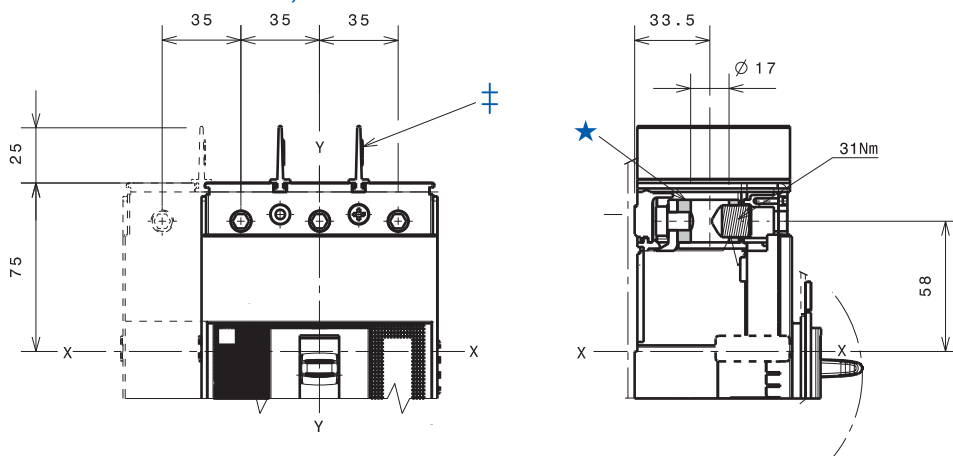
Approximate Dimensions — 225 A, I-Frame

## Cat. Nos. 140G-I-EXT3, -EXT4 Extended Terminals



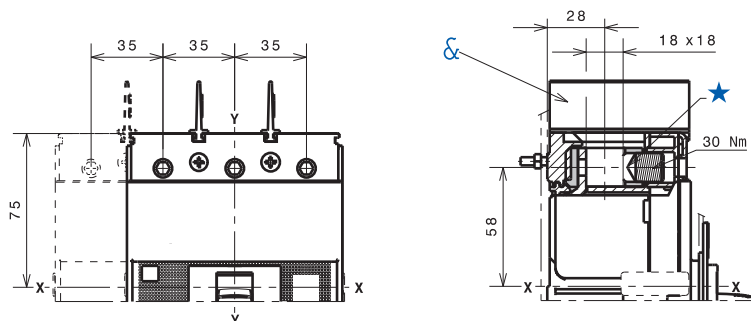
- + Extended terminals
- § Optional terminal covers with IP40 protection provided
- △ Required 100 mm insulating phase barriers provided

## Cat. Nos. 140G-I-TLA1A3, -TLA1A4 Terminals



- ★ 30...150 mm<sup>2</sup> terminals
- + Required 25 mm insulating phase barriers provided

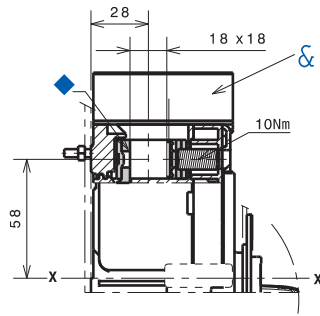
## Cat. Nos. 140G-I-TLA3, -TLA4 Terminals



- ★ 1x90...185 mm<sup>2</sup> terminal
- § Required 25 mm insulating phase barriers provided

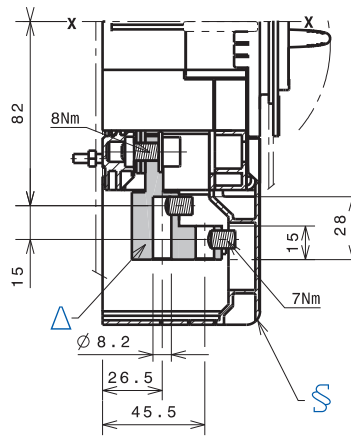
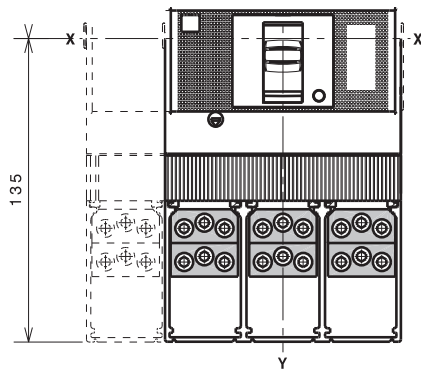


**Cat. Nos. 140G-I-TLC13, -TLC14 Terminals**



- ◆ Front terminals
- & Required 25 mm insulating phase barriers provided

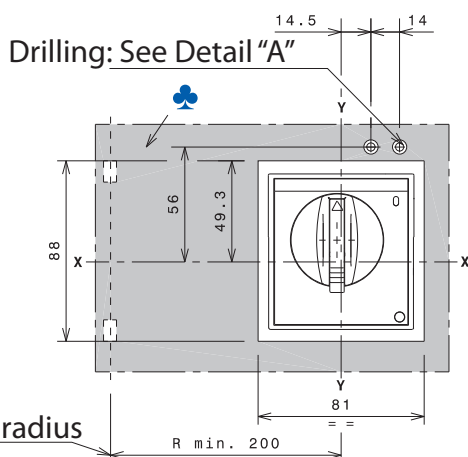
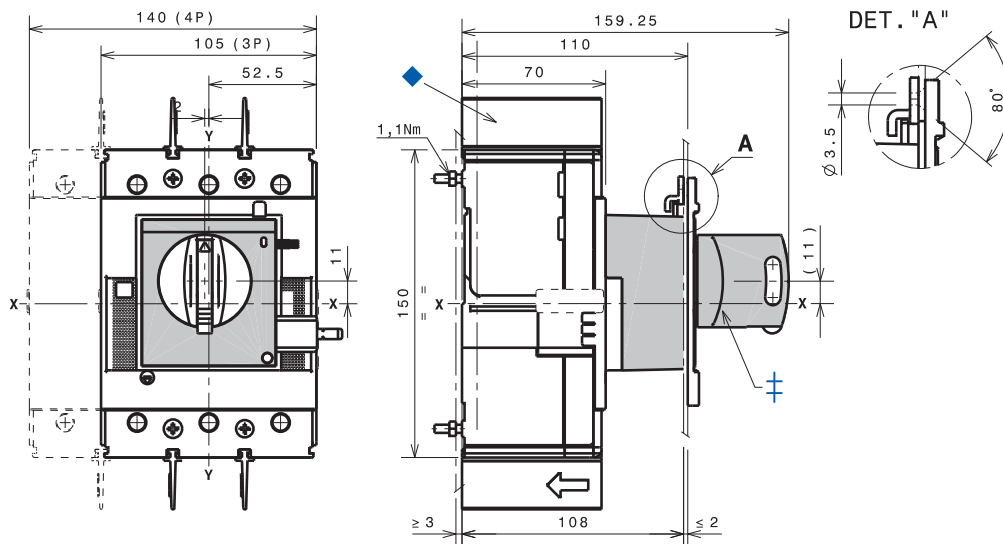
**Cat. Nos. 140G-I-MTL63, -MTL64 Terminals**



- § Optional terminal covers with IP40 protection provided
- Δ Multi-cable terminal lugs

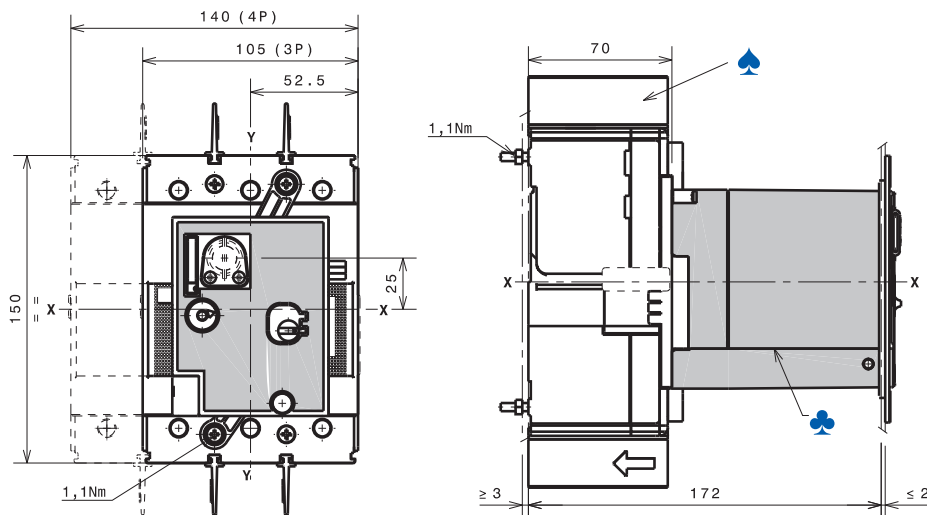
**Molded Case Circuit Breakers**

Approximate Dimensions — 225 A, I-Frame

**Cat. No. 140G-G-RMB, -RMY Direct Rotary Operating Handle (For I- and G-Frame Molded Case Circuit Breaker)**

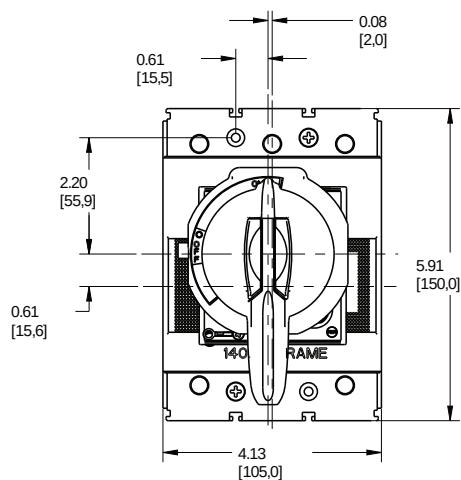
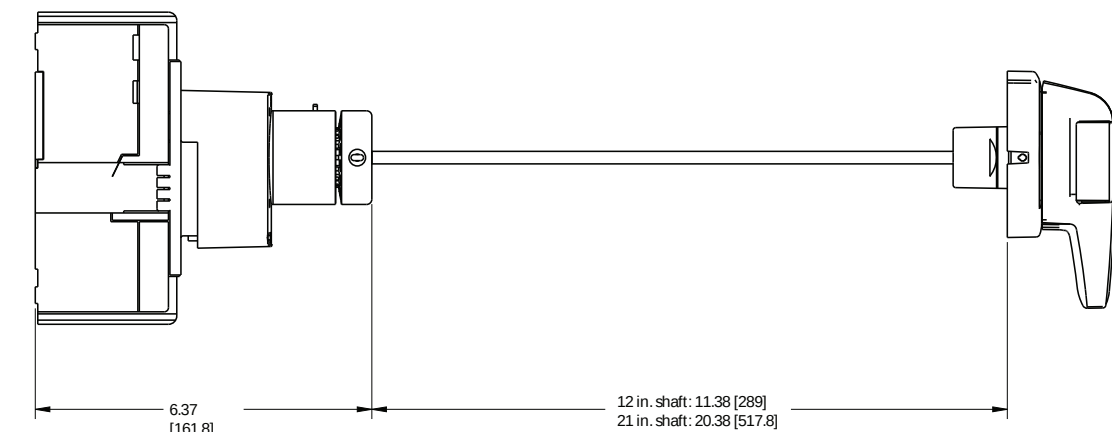
Min. door rotation radius

- ⚙ Rotary handle operating mechanism on molded case circuit breaker
- ♣ Door drilling template with direct rotary handle
- ◆ Required 25 mm insulating phase barriers provided

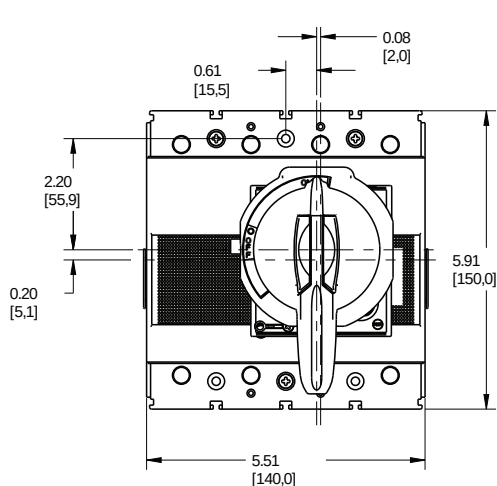
**Cat. No. 140G-G-EOP... Motor Operator (I-Frame)**

- ⚙ Motor operator
- ♣ Required 25 mm insulating phase barriers provided

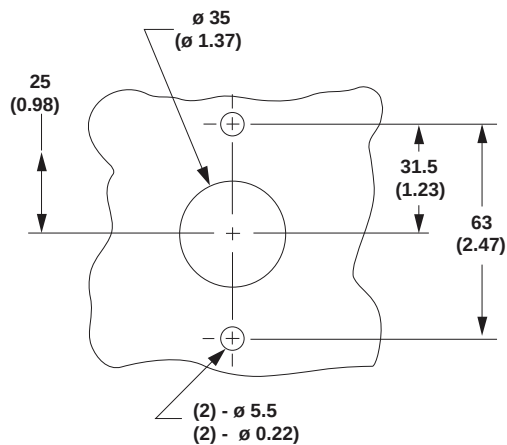
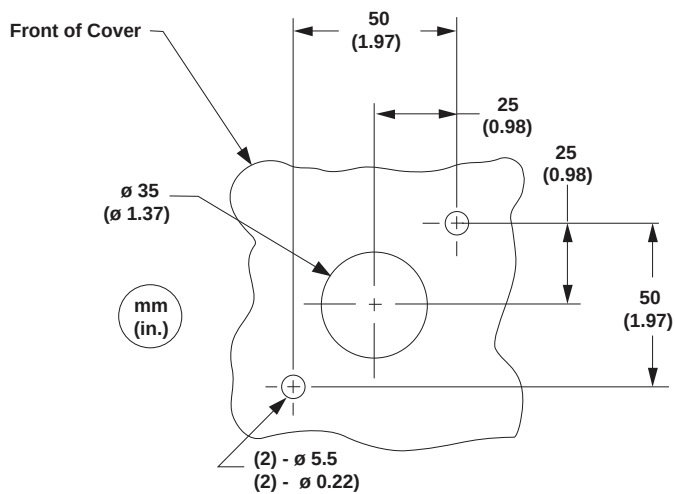
Cat. No. 140G-G-RVM... Variable Depth Rotary Handle Operating Mechanism (For I-Frame Molded Case Circuit Breaker)



3-Pole



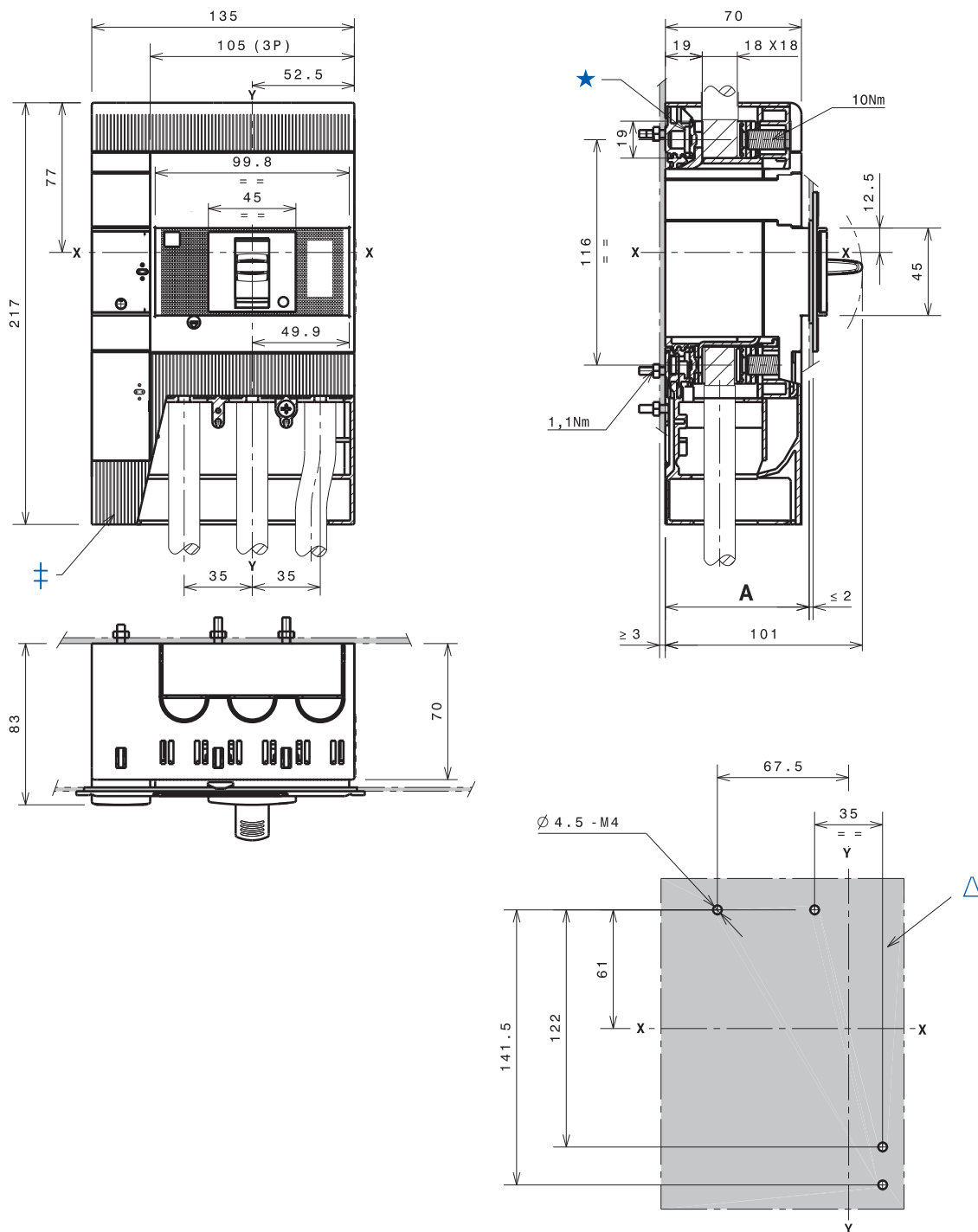
4-Pole



# Molded Case Circuit Breakers

Approximate Dimensions — 225 A, I-Frame

## Cat. No. 140G-I-ELP2503 Residual Current Release Module



| Description    | No. of Poles | A  |
|----------------|--------------|----|
| With flange    | 3            | 74 |
| Without flange | 3            | 71 |

★ Terminals for cable connection

‡ Terminal covers with IP40 protection

△ Drilling template — molded case circuit breaker mounting on mounting plate

[illegible]

- ★ Terminals for busbar connection
- ‡ Terminal covers with IP40 protection
- △ Drilling template — molded case circuit breaker mounting on mounting plate