



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
Interrupting Rating [kA]									
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
Breaking Capacity [I_{cu} (kA)]									
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	—	—	—
Protection Type									
Thermal Magnetic	✓	✓	✓	✓	✓	✓	—	—	—
Electronic	—	✓	—	✓	✓	✓	✓	✓	✓
Molded Case Switch	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internal Accessories									
Auxiliary Contact	✓	✓	✓	✓	✓	✓	✓	✓	✓
Alarm Contact	✓	✓	✓	✓	✓	✓	✓	✓	✓
AX/AL Combo	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trip Unit Contact	—	✓	—	✓	—	—	✓	✓	✓
Shunt Trip	✓	✓	✓	✓	✓	✓	✓	✓	✓
Shunt Close	—	—	—	—	—	—	✓	✓	✓
UV Relay	✓	✓	✓	✓	✓	✓	✓	✓	✓
Field Installable	✓	✓	✓	✓	✓	✓	✓	✓	✓
External Accessories									
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 — 800 A, M-Frame

Complete Circuit Breaker Assemblies — 800 A, M-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 – M 6 K 3 – D60 – SD – AA

a b c d e f g

a

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

b

Frame/Rating	
Code	Description
M	800 A

c

Interrupting Rating/Breaking Capacity (based on I_c at 480V)	
Code	Description
5	50 kA
6	65 kA
0	100 kA
T	Trip unit

d

Protection Type	
Code	Description
F	Adjust thermal/ adjust magnetic
H	Electronic LSI -long, short, instant
I	Electronic LSI -long, short, instant & ground fault
K	Electronic LSI -long, short, instant, ground fault & MM
X	Breaker frame
S	Molded case switch (isolator)

e

Poles	
Code	Description
3	3 poles
4	4 poles

f

Current Range	
Code	Description
D60	e.g., 600 A
D63	e.g., 630 A
D80	e.g., 800 A
Blank	Frame only

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
SC	Shunt Trip, 480...525V AC
UJ	Undervoltage Release, 24...30V AC/DC
UR	Undervoltage Release, 48V AC/DC
UY	Undervoltage Release, 60V 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, Trip Units	
Code	Description
AA	1 Aux., 1 Alarm Contact, 250V
CA	3 Aux., 1 Alarm Contact, 250V
FB	2 Aux. Contacts, 400V
AB	1 Aux., 1 Alarm Contact, 400V
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.

Breaker Frames & Trip Units



Breaker Frames, 800 A Rated Current

Interrupting Rating (50/60 Hz), UL 489/CSA C22.2-5, No. 5-02 [kA]				Breaking Capacity (50/60 Hz), IEC 60947-2						Breaking Capacity (DC), IEC 60947-2 §		Cat. No.	
			3-Pole in series	220V ★		415V		690V		750V DC (3-pole in series)			
240V	480V	600V	600V DC	I_{CU} [kA]	I_{CS} [% I_{CU}]	I_{CU} [kA]	I_{CS} [% I_{CU}]	I_{CU} [kA]	I_{CS} [% I_{CU}]	I_{CU} [kA]	I_{CS} [% I_{CU}]	3 Poles	4 Poles
100	50	25	20	85	100	50	100	22	75	16	75	140G-M5X3	140G-M5X4
200	65	35	35	100	100	70	100	25	75	36	75	140G-M6X3	140G-M6X4
200	100	42	50	200	75	100	75	30	75	50	75	140G-M0X3	140G-M0X4

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

‡ See table below for Cat. No. selection

§ DC rating is applicable for thermal-magnetic trip unit only.

Trip Units, Thermal-Magnetic

Rated Current I_n [A]	Thermal Trip [A] $I_r = I_n$	Magnetic Trip [A] I_m	Protection Type	Cat. No.	
				3 Poles	4 Poles
600	420...630	3000...6000	F (Adjustable Thermal/ Adjustable Magnetic)	140G-MTF3-D60	140G-MTF3-D60
800	560...800	4000...8000	F (Adjustable Thermal/ Adjustable Magnetic)	140G-MTF3-D80	140G-MTF4-D80

Trip Units, Electronic LSI (Long, Short, Instantaneous)

Rated Current I_n [A]	Protection Type				Cat. No.	
	L		S		I	
	$I_1 = 0.4...1 \times I_n$	$t_1 = \text{sec.}$	$I_2 = 0.6...10 \times I_n$	$t_2 = \text{sec.}$	$I_3 = 1.5...12 \times I_n$	
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	

Trip Units, Electronic LSIG (Long, Short, Instantaneous, Ground Fault)

Rated Current I_n [A]	Protection Type						Cat. No.	
	L		S		I		3 Poles	4 Poles
	$I_1 = 0.4...1 \times I_n$	$t_1 = \text{sec.}$	$I_2 = 0.6...10 \times I_n$	$t_2 = \text{sec.}$	$I_3 = 1.5...12 \times I_n$	$I_4 = 0.2...1 \times I_n$		
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	120...600	140G-MTI3-D60	140G-MTI4-D60
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	160...800	140G-MTI3-D80	140G-MTI4-D80

Trip Units, Electronic LSIG-MM (Long, Short, Instantaneous, Ground Fault - Maintenance Mode)

Rated Current I_n [A]	Protection Type						Cat. No.	
	L		S		I		3 Poles	4 Poles
	$I_1 = 0.4...1 \times I_n$	$t_1 = \text{sec.}$	$I_2 = 0.6...10 \times I_n$	$t_2 = \text{sec.}$	$I_3 = 1.5...12 \times I_n$	$I_4 = 0.2...1 \times I_n$		
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	120...600	140G-MTK3-D60	140G-MTK4-D60
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	160...800	140G-MTK3-D80	140G-MTK4-D80

Assembled molded case circuit breakers found on pages 28...30

Molded Case Circuit Breakers

Product Selection — 800 A, M-Frame



Assembled Molded Case Circuit Breakers — 800 A M-Frame

Interrupting Rating/Breaking Capacity — Thermal-Magnetic Circuit Breakers

Interrupting Rating (50/60 Hz), UL 489/CSA C22.2-5, No. 5-02 [kA]				Breaking Capacity (50/60 Hz), IEC 60947-2						Breaking Capacity (DC), IEC 60947-2		Interrupting Code†
240V	480V	600V	3-Pole in series	220V★		415V		690V		750V DC (3-pole in series)		
			600V DC	I_{cu} [kA]	I_{cs} [% I_{cu}]	I_{cu} [kA]	I_{cs} [% I_{cu}]	I_{cu} [kA]	I_{cs} [% I_{cu}]	I_{cu} [kA]	I_{cs} [% I_{cu}]	
100	50	25	20	85	100	50	100	22	75	16	75	M5
200	65	35	35	100	100	70	100	25	75	36	75	M6
200	100	42	50	200	75	100	75	30	75	50	75	M0

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

† See table below for Cat. No. selection

Thermal-Magnetic, Adjustable & Adjustable

Rated Current I_n [A]	Thermal Trip [A] $I_r = I_n$	Magnetic Trip [A] I_m	Protection Type	Interrupting Code M5		Interrupting Code M6		Interrupting Code M0	
				Cat. No.		Cat. No.		Cat. No.	
				3 Poles	4 Poles	3 Poles	4 Poles	3 Poles	4 Poles
600	420...630	3000...6000	F (Adjustable Thermal/ Adjustable Magnetic)	140G-M5F3-D60	140G-M5F4-D60	140G-M6F3-D60	140G-M6F4-D60	140G-M0F3-D60	140G-M0F4-D60
630 §	441...630	3150...6300		140G-M5F3-D63	140G-M5F4-D63	140G-M6F3-D63	140G-M6F4-D63	140G-M0F3-D63	140G-M0F4-D63
800	560...800	4000...8000		140G-M5F3-D80	140G-M5F4-D80	140G-M6F3-D80	140G-M6F4-D80	140G-M0F3-D80	140G-M0F4-D80

§ IEC only.



Interrupting Rating/Breaking Capacity — Electronic Circuit Breakers

Interrupting Rating (50/60 Hz), UL 489/CSA C22.2-5, No. 5-02 [kA]				Breaking Capacity (50/60 Hz), IEC 60947-2						Breaking Capacity (DC), IEC 60947-2		Interrupting Code†
240V	480V	600V	3-Pole in series 600V DC	220V★		415V		690V		750V DC (3-pole in series)		
				<i>I</i> _{cu} [kA]	<i>I</i> _{cs} [% <i>I</i> _{cu}]	<i>I</i> _{cu} [kA]	<i>I</i> _{cs} [% <i>I</i> _{cu}]	<i>I</i> _{cu} [kA]	<i>I</i> _{cs} [% <i>I</i> _{cu}]	<i>I</i> _{cu} [kA]	<i>I</i> _{cs} [% <i>I</i> _{cu}]	
100	50	25	20	85	100	50	100	22	75	16	75	M5
200	65	35	35	100	100	70	100	25	75	36	75	M6
200	100	42	50	200	75	100	75	30	75	50	75	M0

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

† See table below for Cat. No. selection

Electronic LSI (Long, Short, Instantaneous)

Rated Current I_n [A]	Protection Type					Interrupting Code M5		Interrupting Code M6	
	L		S		I	Cat. No.		Cat. No.	Cat. No.
	$I_1=0.4...1 \times I_n$	$t_1=sec.$	$I_2=1...10 \times I_n$	$t_2=sec.$	$I_3=1...10 \times I_n$	3 Poles	4 Poles	4 Poles	3 Poles
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	140G-M5H3-D60	140G-M5H4-D60	140G-M6H3-D60	140G-M6H4-D60
630 §	252...630	3, 6, 9, 18	378...6300	0.05, 0.1, 0.25, 0.5	945...7560	140G-M5H3-D63	140G-M5H4-D63	140G-M6H3-D63	140G-M6H4-D63
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	140G-M5H3-D80	140G-M5H4-D80	140G-M6H3-D80	140G-M6H4-D80

§ IEC only.

Rated Current <i>I_n</i> [A]	Protection Type					Interrupting Code M0	
	L		S		I	Cat. No.	
	<i>I</i> ₁ =0.4...1 x <i>I_n</i>	<i>t</i> ₁ =sec.	<i>I</i> ₂ =1...10 x <i>I_n</i>	<i>t</i> ₂ =sec.	<i>I</i> ₃ =1...10 x <i>I_n</i>	3 Poles	4 Poles
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	140G-M0H3-D60	140G-M0H4-D60
630 §	252...630	3, 6, 9, 18	378...6300	0.05, 0.1, 0.25, 0.5	945...7560	140G-M0H3-D63	140G-M0H4-D63
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	140G-M0H3-D80	140G-M0H4-D80

§ IEC only.

Electronic LSIG (Long, Short, Instantaneous, Ground Fault)

Rated Current I_n [A]	Protection Type						Interrupting Code M5		Interrupting Code M6		
	L		S		I	G		Cat. No.		Cat. No.	
	$I_1=0.4...1 \times I_n$	$t_1=sec.$	$I_2=1...10 \times I_n$	$t_2=sec.$	$I_3=1...10 \times I_n$	$I_4=0.2...1 \times I_n$	$t_4=sec.$	3 Poles	4 Poles	3 Poles	4 Poles
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	120...600	0.1, 0.2, 0.4, 0.8	140G-M5I3-D60	140G-M5I4-D60	140G-M6I3-D60	140G-M6I4-D60
630 §	252...630	3, 6, 9, 18	378...6300	0.05, 0.1, 0.25, 0.5	945...7560	126...630	0.1, 0.2, 0.4, 0.8	140G-M5I3-D63	140G-M5I4-D63	140G-M6I3-D63	140G-M6I4-D63
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	160...800	0.1, 0.2, 0.4, 0.8	140G-M5I3-D80	140G-M5I4-D80	140G-M6I3-D80	140G-M6I4-D80

§ IEC only.

Rated Current I_n [A]	Protection Type							Interrupting Code M0	
	L		S		I	G		Cat. No.	
	$I_1=0.4...1 \times I_n$	$t_1=sec.$	$I_2=1...10 \times I_n$	$t_2=sec.$	$I_3=1...10 \times I_n$	$I_4=0.2...1 \times I_n$	$t_4=sec.$	3 Poles	4 Poles
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	120...600	0.1, 0.2, 0.4, 0.8	140G-M0I3-D60	140G-M0I4-D60
630 §	252...630	3, 6, 9, 18	378...6300	0.05, 0.1, 0.25, 0.5	945...7560	126...630	0.1, 0.2, 0.4, 0.8	140G-M0I3-D63	140G-M0I4-D63
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	160...800	0.1, 0.2, 0.4, 0.8	140G-M0I3-D80	140G-M0I4-D80

§ IEC only.

Molded Case Circuit Breakers

Product Selection — 800 A, M-Frame



Electronic LSIG-MM (Long, Short, Instantaneous, Ground Fault - Maintenance Mode)

Rated Current I_n [A]	Protection Type							Interrupting Code M5		Interrupting Code M6	
	L		S		I	G		Cat. No.		Cat. No.	
	$I_1=0.4...1 \times I_n$	$t_1=\text{sec.}$	$I_2=1...10 \times I_n$	$t_2=\text{sec.}$	$I_3=1...10 \times I_n$	$I_4=0.2...1 \times I_n$	$t_4=\text{sec.}$	3 Poles	4 Poles	3 Poles	4 Poles
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	120...600	0.1, 0.2, 0.4, 0.8	140G-M5K3-D60	140G-M5K4-D60	140G-M6K3-D60	140G-M6K4-D60
630 §	252...630	3, 6, 9, 18	378...6300	0.05, 0.1, 0.25, 0.5	945...7560	126...630	0.1, 0.2, 0.4, 0.8	140G-M5K3-D63	140G-M5K4-D63	140G-M6K3-D63	140G-M6K4-D63
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	160...800	0.1, 0.2, 0.4, 0.8	140G-M5K3-D80	140G-M5K4-D80	140G-M6K3-D80	140G-M6K4-D80

§ IEC only.

Rated Current I_n [A]	Protection Type							Interrupting Code M0	
	L		S		I	G		Cat. No.	
	$I_1=0.4...1 \times I_n$	$t_1=\text{sec.}$	$I_2=1...10 \times I_n$	$t_2=\text{sec.}$	$I_3=1...10 \times I_n$	$I_4=0.2...1 \times I_n$	$t_4=\text{sec.}$	3 Poles	4 Poles
600	240...600	3, 6, 9, 18	360...6000	0.05, 0.1, 0.25, 0.5	900...7200	120...600	0.1, 0.2, 0.4, 0.8	140G-M0K3-D60	140G-M0K4-D60
630 §	252...630	3, 6, 9, 18	378...6300	0.05, 0.1, 0.25, 0.5	945...7560	126...630	0.1, 0.2, 0.4, 0.8	140G-M0K3-D63	140G-M0K4-D63
800	320...800	3, 6, 9, 18	480...8000	0.05, 0.1, 0.25, 0.5	800...8400	160...800	0.1, 0.2, 0.4, 0.8	140G-M0K3-D80	140G-M0K4-D80

§ IEC only.

Maintenance Mode (MM)

Maintenance Mode (MM) offers a preset set of protection parameters. MM allows systems testing when the molded case circuit breaker is energized or ON. This feature is a manual adjustment on the molded case circuit breaker, via a DIP switch. The following table illustrates the preset values for Maintenance Mode.

Rated Current I_n [A]	L		S		I	G	MM	
	$I_1=1 \times I_n$	$t_1=\text{MAX sec.}$	$I_2=\text{OFF}$	$t_2=\text{OFF sec.}$	$I_3=4 \times I_n$	$I_4=\text{OFF}$	$t_4=\text{OFF sec.}$	$I_5=2.5 \times I_n$
600	600	18	—	—	2400	—	—	1500
630 §	630	18	—	—	2520	—	—	1575
800	800	18	—	—	3200	—	—	2000

§ IEC only.

Rated Current I_n [A]	Magnetic Trip I_m [A]	Cat. No.	
		3 Poles	4 Poles
800	10 000	140G-M6S3-D80	140G-M6S4-D80



Molded Case Switch — UL489

Molded Case Circuit Breakers

Accessories

Accessories Table of Contents

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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.

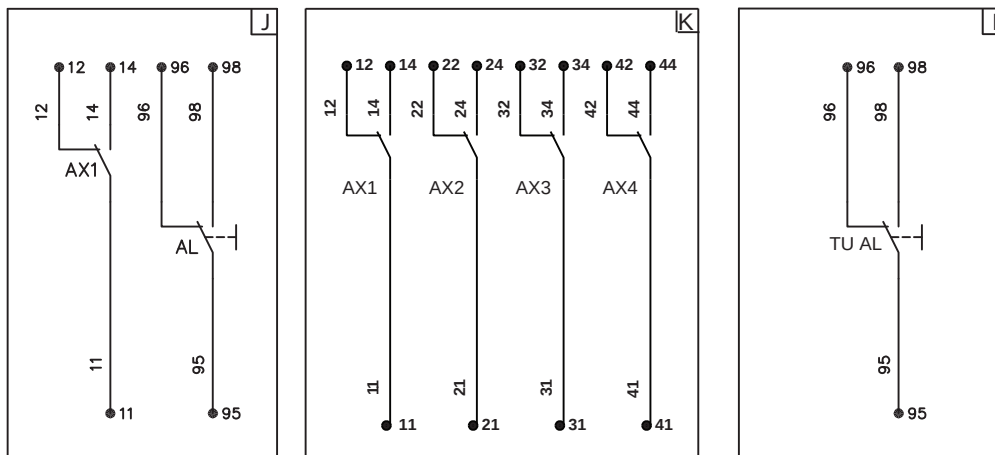
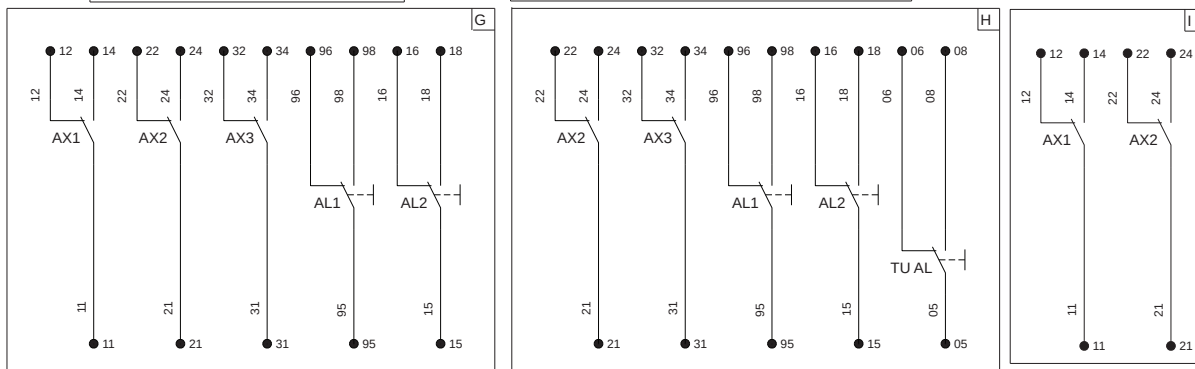
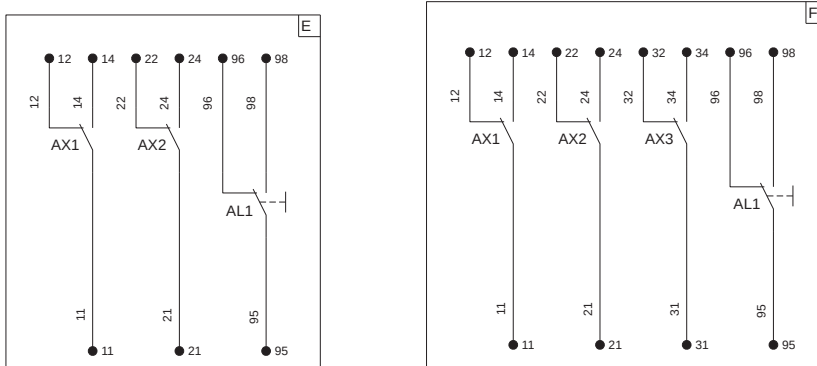
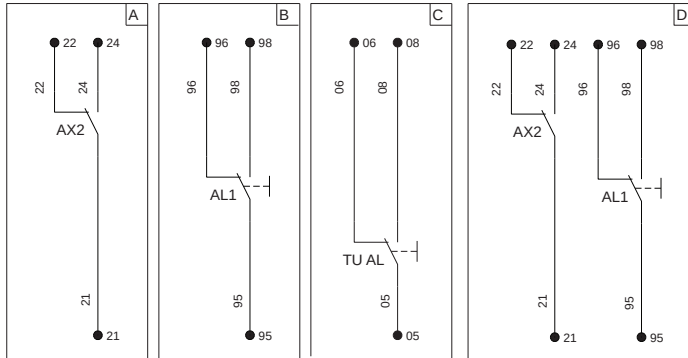
Description	Designation	Diagram	Frame Size	Cat. No.
(1) TU Alarm Contact 250V	TU AL	C	H, J	140G-H-EA1TA
(1) Auxiliary (1) Alarm Contact 250V	AX2/AL1	D	G, H, I, J	140G-G-EA1R1A
(2) Auxiliary (1) Alarm Contact 250V	AX1/AX2/AL1	E	G, H, I, J	140G-G-EA2R1A
(3) Auxiliary (1) Alarm Contact 250V	AX1/AX2/AX3/AL1	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

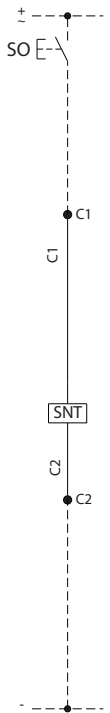


Molded Case Circuit Breakers

Accessories

Shunt Trip (SNT)

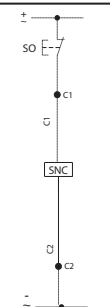
- Allows for remote tripping of the MCCB by applying control voltage to the shunt trip coil.
- Frames G, H, I, J, K, and M are supplied with pig-tail wiring (each terminal wire is marked).
- Frame N, NS, and R are wired internal to the breaker and terminated for connection using a 3-pin quick connector.

Description		Diagram	Frame Size	Cat. No.
 Representative Photo	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
	480...525V AC		140G-G-SNC	
 Representative Photo	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
	480...525V AC		140G-K-SNC	
 Representative Photo	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)

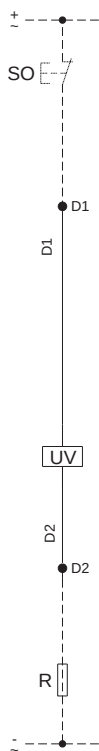
- For use with motorized versions of the NS- and R-Frame MCCB.
- Allows for remote closing of the MCCB when the spring motor is charged.

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.
 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.
 Representative Photo	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
 Representative Photo	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
 Representative Photo	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

 Representative Photo	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



Representative Photo

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)
 Representative Photo	Cu wire, MCCB only (1) 14...1/0 AWG or 2.5...70 mm ²	G	140G-G-TLC13	140G-G-TLC14
	Cu wire, MCP only (1) 14...1/0 AWG or 1.5...70 mm ²		140G-G-TLC13A	—
	Multiple cable - Cu wire (6) 14...2 AWG or 2.5...35 mm ²		140G-G-MTL63	140G-G-MTL64
	Cu wire only (1) 14...1/0 AWG or 2.5...95 mm ²	H	140G-H-TLC13	140G-H-TLC14
	Multiple cable - Cu wire (6) 14...2 AWG or 2.5...35 mm ²		140G-H-MTL63	140G-H-MTL64
 Representative Photo	Al or Cu wire (1) 14...1/0 AWG or 2.5...50 mm ²	I	140G-I-TLA13	140G-I-TLA14
	Al or Cu wire (1) 4...300 MCM or 25...150 mm ²		140G-I-TLA1A3	140G-I-TLA1A4
	Cu wire only (1) 10...250 MCM or 6...185 mm ²		140G-I-TLC13	140G-I-TLC14
	Multiple cable - Cu wire (6) 12...2 AWG or 2.5...35 mm ²		140G-I-MTL63	140G-I-MTL64
 Representative Photo	Al or Cu wire (1) 14...1/0 AWG or 2.5...50 mm ²	J	140G-J-TLA13	140G-J-TLA14
	Al or Cu wire (1) 4...300 MCM or 25...150 mm ²		140G-J-TLA1A3	140G-J-TLA1A4
	Al or Cu wire (1) 6 (Al)/10 (Cu)...350 MCM or 2.5...185 mm ² (Al)		140G-J-TLA1B3	140G-J-TLA1B4
	Cu wire only (1) 10...350 MCM or 6...185 mm ²		140G-J-TLC13	140G-J-TLC14
	Multiple cable - Cu wire (6) 12...2 AWG or 2.5...35 mm ²		140G-J-MTL63	140G-J-MTL64
 Representative Photo	Al or Cu wire (1) 250...500 MCM or 120...240 mm ²	K	140G-K-TLA13	140G-K-TLA14
	Al or Cu wire (2) 2/0...250 MCM or 95...120 mm ²		140G-K-TLA23	140G-K-TLA24
	Cu wire only (1) 250...500 MCM or 120...240 mm ²		140G-K-TLC13	140G-K-TLC14
	Cu wire only (2) 2/0...250 MCM or 95...120 mm ²		140G-K-TLC23	140G-K-TLC24
	Multiple cable - Cu wire (6) 6...1/0 AWG or 16...50 mm ²		140G-K-MTL63	140G-K-MTL64
 Representative Photo	Al or Cu wire (2) 250...500 MCM or 120...240 mm ²	M	140G-M-TLA23	140G-M-TLA24
	Al or Cu wire (3) 2/0...400 MCM or 70...185 mm ²		140G-M-TLA33	140G-M-TLA34
	Cu wire only (2) 3/0...350 MCM or 85...185 mm ²		140G-M-TLC23	140G-M-TLC24
	Cu wire only (3) 2/0...350 MCM or 70...185 mm ²		140G-M-TLC33	140G-M-TLC34
 Representative Photo	Al or Cu wire (4) 4/0...500 MCM or 70...240 mm ²	N, NS	140G-N-TLA43	140G-N-TLA44
	Cu wire only (4) 4/0...500 MCM or 70...240 mm ²		140G-N-TLC43	140G-N-TLC44
	Al or Cu wire (6) 1/0...750 MCM or 50...400 mm ²	R	140G-R-TLA63	—
	Cu wire only (6) 1/0...750 MCM or 50...400 mm ²		140G-R-TLC63	—

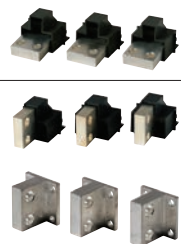
Extended Terminals

 Representative Photo	Description	Frame Size	3-Pole Cat. No. (Pkg. Qty. 3)	4-Pole Cat. No. (Pkg. Qty. 4)
	Extended Terminals for busbar or ring type connection - G- & I-frame supplied with 100 mm phase barrier - H- & J-frame supplied with insulator, 100 mm phase barrier, and terminal cover - K- & N-/NS-frame supplied with insulator and 100 mm phase barrier - M-frame terminals only	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

 Representative Photo	Description	Frame Size	3-Pole Cat. No. (Pkg. Qty. 3)	4-Pole Cat. No. (Pkg. Qty. 4)
	Spreader Terminals for busbar or ring type connection - G- & I-frame supplied with 200 mm phase barrier - H- & J-frame supplied with insulator, 100 mm phase barrier, and terminal cover - K- & N-/NS-frame supplied with insulator and 100 mm phase barrier - M- & R-frame terminals only	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
	Top Spreader Terminals for busbar or ring type connection M-frame terminals only	R	140G-R-EXS3	140G-R-EXS4
		M	140G-M-EXSLI3	—
 Representative Photo	Bottom Spreader Terminals for busbar or ring type connection N-/NS-frame supplied with insulator and 100 mm phase barrier	N, NS	140G-N-EXSLI3	—
		M	140G-M-EXSLO3	—
		N, NS	140G-N-EXSLO3	—

Rear Terminals

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

★ 2000 A and 2500 A MCCBs only.

Molded Case Circuit Breakers

Accessories

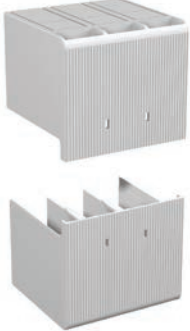
Phase Barriers

- 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.

 Representative Photo	Frame Size	Length	3-Pole Cat. No. (Pkg. Qty. 4)	4-Pole Cat. No. (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.

 Representative Photo  Representative Photo	Frame Size	Height	3-Pole Cat. No. (Pkg. Qty. 2)	4-Pole Cat. No. (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.
 Representative Photo	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
 Representative Photo	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.
 Representative Photo	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
 Representative Photo	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

 Representative Photo	Description	Handle Color	Frame Size	Cat. No.
	- P-style handle for G, H, I, and J frames - Medium handles for K, M, and N frames - Rated 3/3R/4/4X/12 - Accepts 3 padlocks	Black/Grey	G, H, I, J	140U-PB
		Red/Yellow		140U-PY
		Black/Grey	K, M, N	140U-HM4
		Red/Yellow		140U-HM4E

 Representative Photo	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

 Representative Photo	Description	Shaft Length	Frame Size	Cat. No.
	NFPA 79 internal operating handle with shaft 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

 Representative Photo	Description	Frame Size	Cat. No.
	Rotary, Variable Depth Operating Mechanism - Direct molded case circuit breaker mount - G, H, I, and J frame use 194R-S1 or 194R-S2 shafts (140G-N1 or 140G-N2 NFPA) - K, M, and N frames use 194R-R7 or 194R-R8 shafts (140G-R7 or 140G-R8 NFPA) - Shaft secured with set screw or cotter pin	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.
Support Bracket 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

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

Direct Rotary Operators

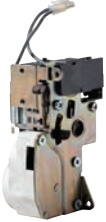
- Mount with direct handle operation of the MCCB.
- Lockable in OFF position (three padlocks max.).

 Representative Photo  Representative Photo	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.
 Representative Photo	24V DC	140G-G-EOPJ
	48...60V DC	140G-G-EOPKY
	110...125V AC/DC	140G-G-EOPD
	220...250V AC/DC	140G-G-EOPA
	380...440V AC	140G-G-EOPB
	480...525V AC	140G-G-EOPC
 Representative Photo	24V DC	140G-H-EOPJ
	48...60V DC	140G-H-EOPKY
	110...125V AC/DC	140G-H-EOPD
	220...250V AC/DC	140G-H-EOPA
	380...440V AC	140G-H-EOPB
	480...525V AC	140G-H-EOPC
 Representative Photo	24V DC	140G-K-EOPJ
	48...60V DC	140G-K-EOPKY
	110...125V AC/DC	140G-K-EOPD
	220...250V AC/DC	140G-K-EOPA
	380V AC	140G-K-EOPB
	24V DC	140G-M-EOPJ
	48...60V DC	140G-M-EOPKY
	110...125V AC/DC	140G-M-EOPD
	220...250V AC/DC	140G-M-EOPA
	380V AC	140G-M-EOPB

Description	Frame Size	Cat. No.
 Representative Photo	NS	140G-NS-SCMA
		140G-NS-SCMB
		140G-NS-SCMD
		140G-NS-SCMJ
		140G-NS-SCMKY
	R	140G-R-SCMA
		140G-R-SCMD
		140G-R-SCMJ
		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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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	1494V-M70
Allen-Bradley	400	140G-K	1494V-M71
Allen-Bradley	800, 1200	140G-M, N	1494V-M72

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

Operating Handle

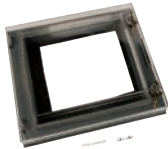
Handle Type	Description	Circuit Breaker Frame Size [A]	Operating Handle
			Cat. No.
Type 1, 3R, 4, 4X, 12	Nonmetallic	125, 150, 250, 400	1494F-P1
Type 1, 3R, 4, 12	Painted Metal	125, 150, 250, 400	1494F-M1
Type 4, 4X	Stainless Steel	125, 150, 250, 400	1494F-S1
Type 1, 3R, 4, 12	Painted Metal	800, 1200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

Auxiliary Contacts

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

Bulletin 140G
Molded Case Circuit Breakers
 Accessories

Additional Accessories

	Description	Frame Size	Cat. No.	
 <i>Representative Photo</i>	Trip Test Unit Padlockable Handle Block Padlocking Hasp 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	
 <i>Representative Photo</i>	Direct Mechanical Lock to Door	N, NS	140G-N-SINT	
	Description	Frame Size	3-Pole Cat. No.	4-Pole Cat. No.
 <i>Representative Photo</i>	Replacement Mounting Hardware 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
 <i>Representative Photo</i>	DIN Rail Adapter 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
 <i>Representative Photo</i>	Escutcheon Plates 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	
 <i>Representative Photo</i>	IP54 Door protection 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

 <i>Representative Photo</i>	Description	Frame Size	3-Pole Cat. No.	4-Pole Cat. No.
	Replacement End Cap Kits 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.	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
 <i>Representative Photo</i>	Insulators 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

Molded Case Circuit Breakers

Specifications — K- and M-Frame

		K-Frame				M-Frame		
Max. Rated Current	[A]	400				800		
Rated insulation voltage, U _i , IEC	[V]	1000				1000		
NEMA, UL, CSA								
Interrupting Rating Code		K3	K6	K0	K15	K5	K6	K0
240V AC, 50/60Hz	[kA]	100	150	200	200	100	200	200
480V AC, 50/60Hz	[kA]	35	65	100	150	50	65	100
600Y/347V AC, 50/60Hz	[kA]	—	—	—	—	—	—	—
600V AC, 50/60 Hz	[kA]	25	35	65	100	25	35	42
IEC 60947-2								
Rated ultimate short-circuit breaking capacity, I _{cu}								
220/230/240V AC, 50/60Hz	[kA]	85	100	200	200	85	100	200
380V AC, 50/60Hz	[kA]	50	70	120	200	50	70	100
415V AC, 50/60Hz	[kA]	50	70	120	200	50	70	100
440V AC, 50/60Hz	[kA]	40	65	100	180	45	50	80
500V AC, 50/60Hz	[kA]	30	50	85	150	35	50	65
525V AC, 50/60Hz	[kA]	—	—	—	—	—	—	—
690V AC, 50/60Hz	[kA]	25	40	70	80	22	25	30
250V DC, 2 Poles in Series	[kA]	—	—	—	—	—	—	—
500V DC, 2 Poles in Series	[kA]	36	50	70	100	—	—	—
500V DC, 3 Poles in Series	[kA]	—	—	—	—	—	—	—
750V DC, 3 Poles in Series	[kA]	25	36	70	70	20	36	50
Rated service short-circuit breaking capacity, I _{cs}								
220/230/240V AC, 50/60Hz	[kA]	100%	100%	100%	100%	100%	100%	75%
380V AC, 50/60Hz	[kA]	100%	100%	100%	100%	100%	100%	75%
415V AC, 50/60Hz	[kA]	100%	100%	100%	100%	100%	100%	75%
440V AC, 50/60Hz	[kA]	100%	100%	100%	100%	100%	100%	75%
500V AC, 50/60Hz	[kA]	100%	100%	100%	100%	100%	100%	75%
525V AC, 50/60Hz	[kA]	—	—	—	—	—	—	—
690V AC, 50/60Hz	[kA]	100%	100%	100%	100%	75%	75%	75%
250V DC, 2 Poles in Series	[kA]	—	—	—	—	—	—	—
500V DC, 2 Poles in Series	[kA]	100%	100%	100%	100%	—	—	—
500V DC, 3 Poles in Series	[kA]	—	—	—	—	—	—	—
750V DC, 3 Poles in Series	[kA]	100%	100%	100%	100%	75%	75%	75%
Mechanical Life	[No. Ops]	20000				20000		
	[Ops/hr]	120				120		
Electrical Life @ 415V AC	[No. Ops]	7000 (400 A) - 5000 (630 A)				7000 (630 A) - 5000 (800 A) - 4000 (1000 A)		
	[Ops/hr]	60				60		
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	[mm]	3 poles: 140x108.5x205				3 poles: 210x103.5x268		
[Width/Depth/Height]	[mm]	4 poles: 185x103.5x205				4 poles: 280x103.5x268		

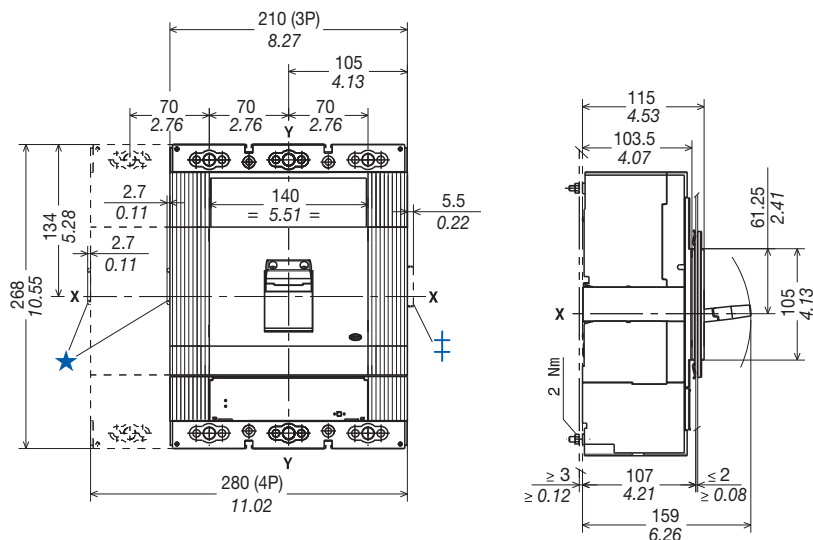


Molded Case Circuit Breakers

Approximate Dimensions — 800 A, M-Frame

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

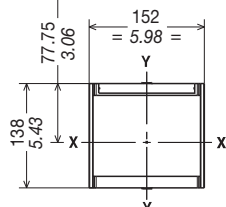
Panel Mounted Molded Case Circuit Breaker



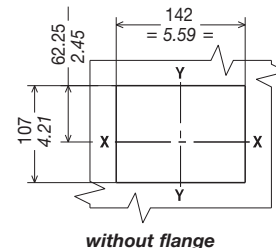
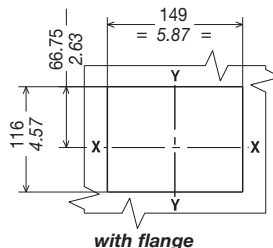
- ★ Overall dimensions with cabled accessories mounted
- ⊕ Overall dimensions with cabled auxiliary contacts mounted

Drilling Templates for Molded Case Circuit Breaker Mounting

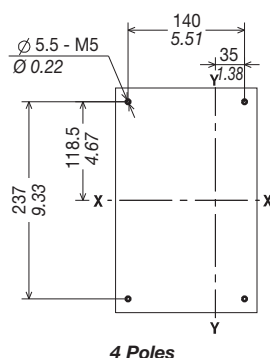
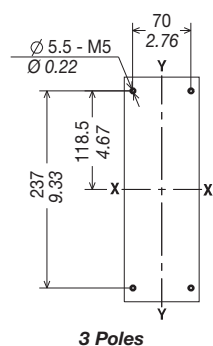
Flange for compartment door



Drilling template for compartment door



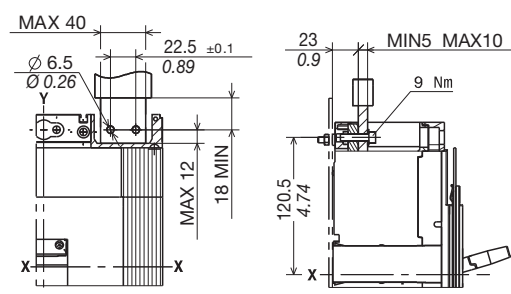
Drilling template for mounting plate



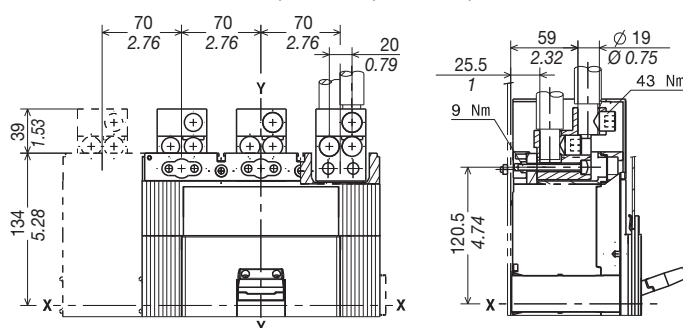
Molded Case Circuit Breakers

Approximate Dimensions — 800 A, M-Frame

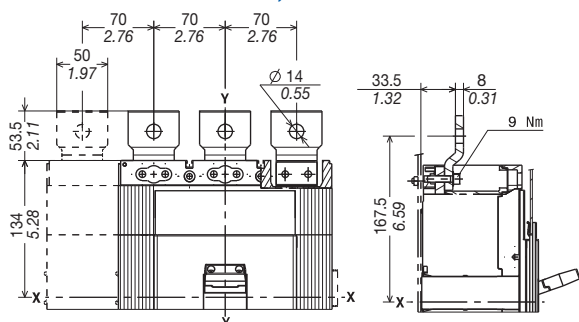
Cat. No. 140G-M-ECM Terminals



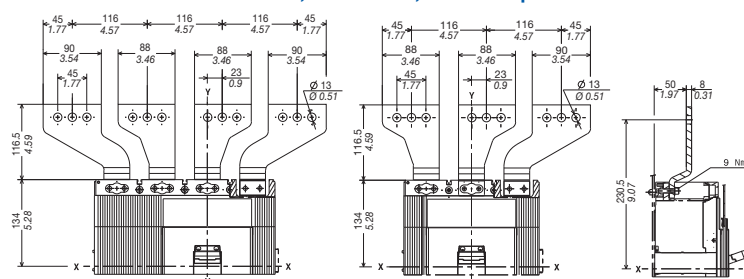
Cat. No. 140G-M-TLA23, -TLA24, -TLC23, -TLC24 Terminals



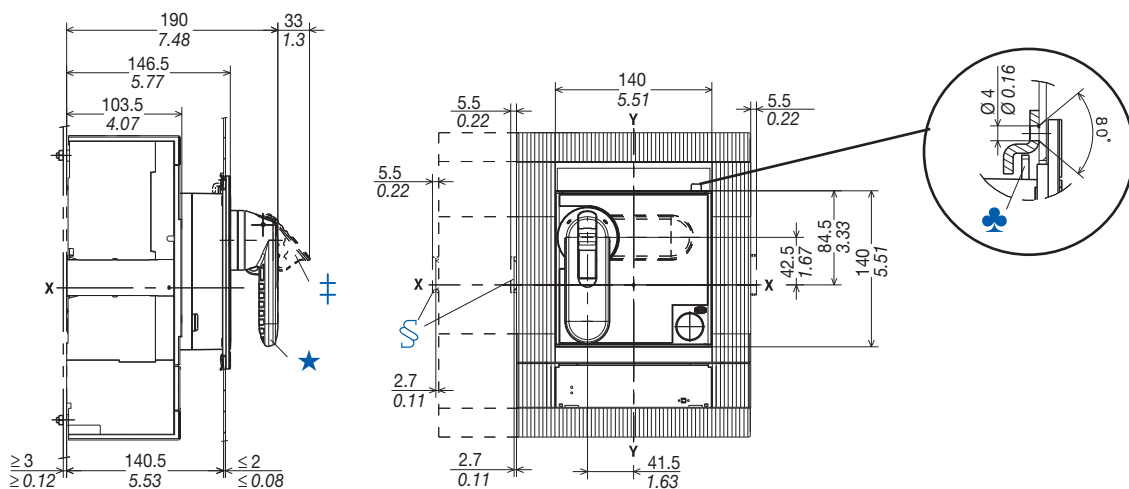
Cat. Nos. 140G-M-EXT3, -EXT4 Extended Terminals



Cat. Nos. 140G-M-EXSLI3, -EXSLO3, -EXS4 Spreader Terminals



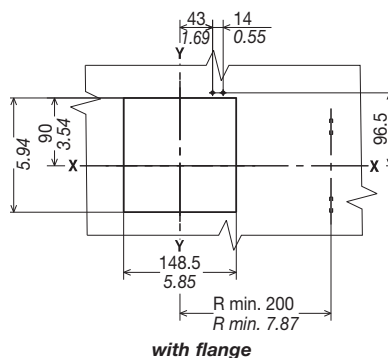
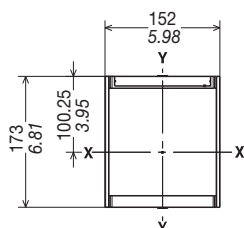
Cat. No. 140G-M-RMB, -RMY Rotary Handle Operating Mechanism — Door Mounted



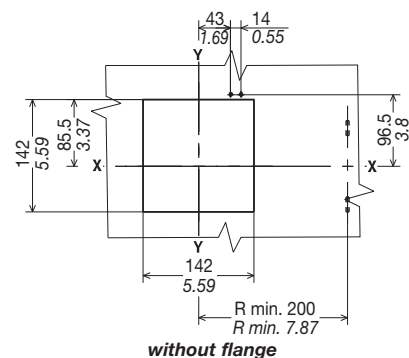
- ★ Rotary handle operating mechanism on molded case circuit breaker
- † Padlock device for open position (max. 3 padlocks; user provided)
- § Dimension with cabled early make contact
- ♣ Compartment door lock

Drilling template for compartment door

Flange for compartment door

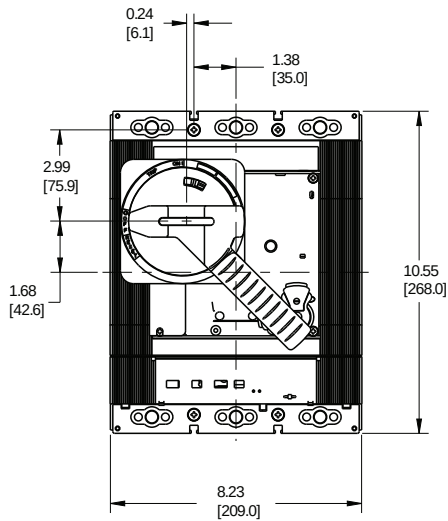
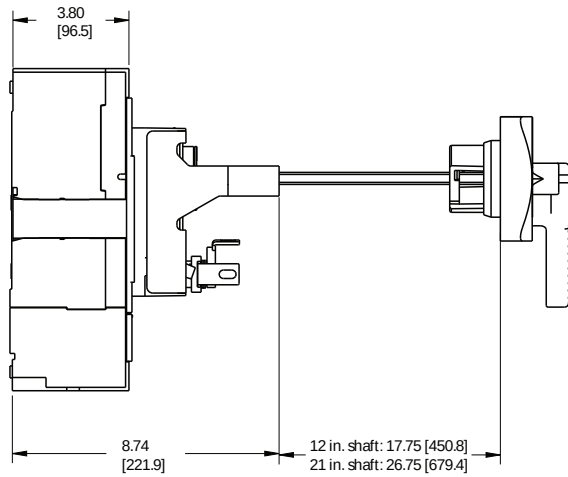


with flange

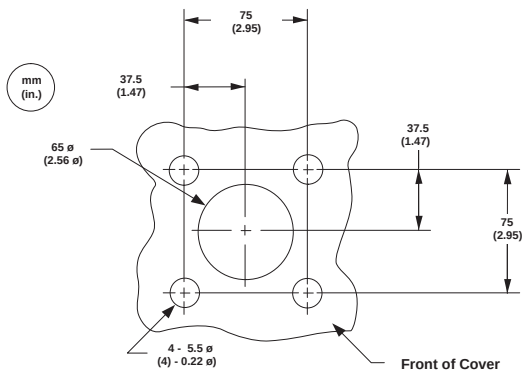


without flange

Cat. No. 140G-M-RVM... Variable Depth Rotary Handle Operating Mechanism



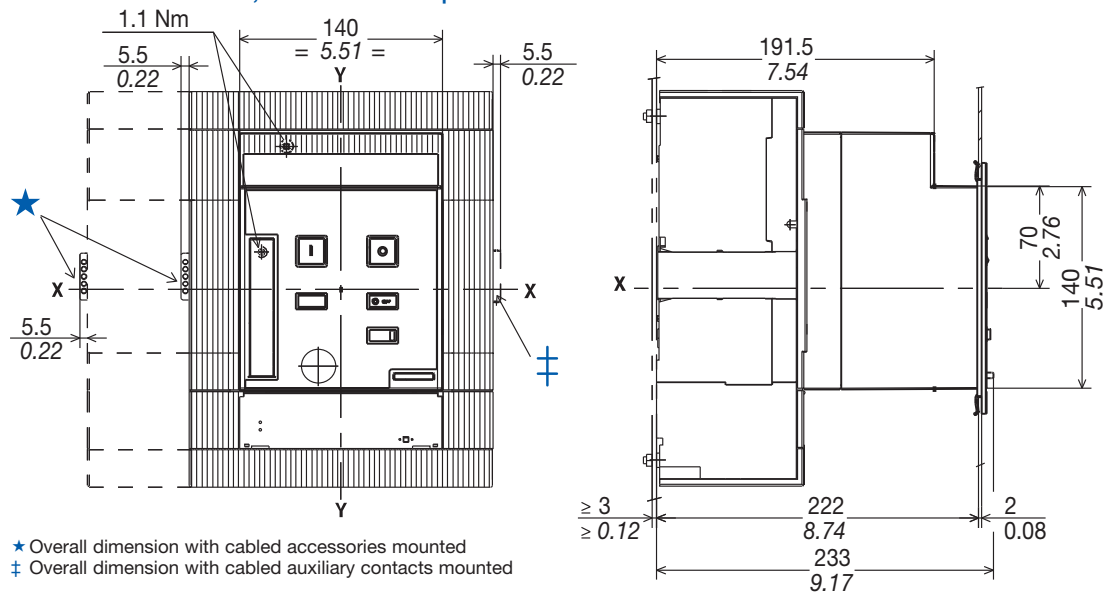
3-Pole



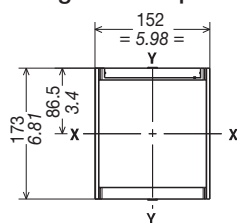
Molded Case Circuit Breakers

Approximate Dimensions — 800 A, M-Frame

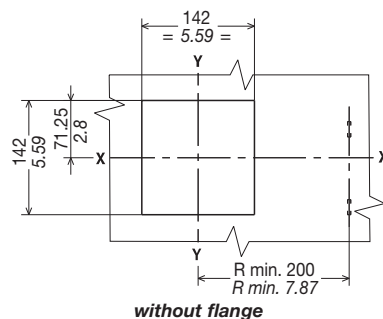
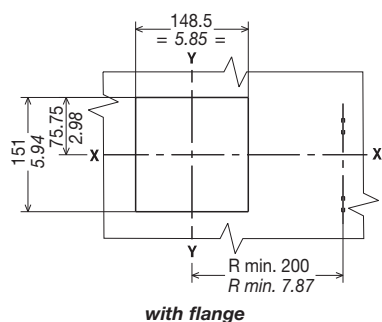
Cat. No. 140G-M-EOP, -ECOP Motor Operator



Flange for compartment door



Drilling template for compartment door



Drilling template for mounting plate

