

Molded Case Circuit Breakers

Product Selection — 250 A, J-Frame

Assembled Molded Case Circuit Breakers — 250 A J-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‡
			220V★		415V		440V★		690V		250V DC (2-pole in series)		500V DC (3-pole in series)		
			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}]	I_{cu} [kA]	I_{cs} [% I_{cu}]	I_{cu} [kA]	I_{cs} [% I_{cu}]	
240V	480V	600V	65	100	36	100	36	100	10	100	36	100	36	100	J2
100	35	18	85	100	50	100	50	100	12	100	50	100	50	100	J3
150	65	25	100	100	70	100	65	100	15	100	70	100	70	100	J6
200	100	35	150	100	120	100	100	100	20	100	85	100	85	100	J0

★ 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.

Thermal-Magnetic, Fixed & Adjustable

Rated Current I_n [A]	Thermal Trip [A] $I_r = I_n$ (Fixed)	Magnetic Trip [A] I_m	Interrupting Code J2		Interrupting Code J3	
			Cat. No.		Cat. No.	
			3 Poles	4 Poles	3 Poles	4 Poles
25	25	400	140G-J2C3-C25	140G-J2C4-C25	140G-J3C3-C25	140G-J3C4-C25
30	30	400	140G-J2C3-C30	140G-J2C4-C30	140G-J3C3-C30	140G-J3C4-C30
32	32	400	140G-J2C3-C32	140G-J2C4-C32	140G-J3C3-C32	140G-J3C4-C32
35	35	400	140G-J2C3-C35	140G-J2C4-C35	140G-J3C3-C35	140G-J3C4-C35
40	40	400	140G-J2C3-C40	140G-J2C4-C40	140G-J3C3-C40	140G-J3C4-C40
50	50	500	140G-J2C3-C50	140G-J2C4-C50	140G-J3C3-C50	140G-J3C4-C50
60	60	600	140G-J2C3-C60	140G-J2C4-C60	140G-J3C3-C60	140G-J3C4-C60
63	63	630	140G-J2C3-C63	140G-J2C4-C63	140G-J3C3-C63	140G-J3C4-C63
70	70	700	140G-J2C3-C70	140G-J2C4-C70	140G-J3C3-C70	140G-J3C4-C70
80	56...80	400...800	140G-J2F3-C80	140G-J2F4-C80	140G-J3F3-C80	140G-J3F4-C80
90	63...90	450...900	140G-J2F3-C90	140G-J2F4-C90	140G-J3F3-C90	140G-J3F4-C90
100	70...100	500...1000	140G-J2F3-D10	140G-J2F4-D10	140G-J3F3-D10	140G-J3F4-D10
110	77...110	550...1100	140G-J2F3-D11	140G-J2F4-D11	140G-J3F3-D11	140G-J3F4-D11
125	87.5...125	625...1250	140G-J2F3-D12	140G-J2F4-D12	140G-J3F3-D12	140G-J3F4-D12
150	105...150	750...1500	140G-J2F3-D15	140G-J2F4-D15	140G-J3F3-D15	140G-J3F4-D15
160	112...160	800...1600	140G-J2F3-D16	140G-J2F4-D16	140G-J3F3-D16	140G-J3F4-D16
175	122.5...175	875...1750	140G-J2F3-D17	140G-J2F4-D17	140G-J3F3-D17	140G-J3F4-D17
200	140...200	1000...2000	140G-J2F3-D20	140G-J2F4-D20	140G-J3F3-D20	140G-J3F4-D20
225	157.5...225	1125...2250	140G-J2F3-D22	140G-J2F4-D22	140G-J3F3-D22	140G-J3F4-D22
250	175...250	1250...2500	140G-J2F3-D25	140G-J2F4-D25	140G-J3F3-D25	140G-J3F4-D25

Rated Current I_n [A]	Thermal Trip [A] $I_r = I_n$ (Fixed)	Magnetic Trip [A] I_m	Interrupting Code J6		Interrupting Code J0	
			Cat. No.		Cat. No.	
			3 Poles	4 Poles	3 Poles	4 Poles
25	25	400	140G-J6C3-C25	140G-J6C4-C25	140G-J0C3-C25	140G-J0C4-C25
30	30	400	140G-J6C3-C30	140G-J6C4-C30	140G-J0C3-C30	140G-J0C4-C30
32	32	400	140G-J6C3-C32	140G-J6C4-C32	140G-J0C3-C32	140G-J0C4-C32
35	35	400	140G-J6C3-C35	140G-J6C4-C35	140G-J0C3-C35	140G-J0C4-C35
40	40	400	140G-J6C3-C40	140G-J6C4-C40	140G-J0C3-C40	140G-J0C4-C40
50	50	500	140G-J6C3-C50	140G-J6C4-C50	140G-J0C3-C50	140G-J0C4-C50
60	60	600	140G-J6C3-C60	140G-J6C4-C60	140G-J0C3-C60	140G-J0C4-C60
63	63	630	140G-J6C3-C63	140G-J6C4-C63	140G-J0C3-C63	140G-J0C4-C63
70	70	700	140G-J6C3-C70	140G-J6C4-C70	140G-J0C3-C70	140G-J0C4-C70
80	56...80	400...800	140G-J6F3-C80	140G-J6F4-C80	140G-J0F3-C80	140G-J0F4-C80
90	63...90	450...900	140G-J6F3-C90	140G-J6F4-C90	140G-J0F3-C90	140G-J0F4-C90
100	70...100	500...1000	140G-J6F3-D10	140G-J6F4-D10	140G-J0F3-D10	140G-J0F4-D10
110	77...110	550...1100	140G-J6F3-D11	140G-J6F4-D11	140G-J0F3-D11	140G-J0F4-D11
125	87.5...125	625...1250	140G-J6F3-D12	140G-J6F4-D12	140G-J0F3-D12	140G-J0F4-D12
150	105...150	750...1500	140G-J6F3-D15	140G-J6F4-D15	140G-J0F3-D15	140G-J0F4-D15
160	112...160	800...1600	140G-J6F3-D16	140G-J6F4-D16	140G-J0F3-D16	140G-J0F4-D16
175	122.5...175	875...1750	140G-J6F3-D17	140G-J6F4-D17	140G-J0F3-D17	140G-J0F4-D17
200	140...200	1000...2000	140G-J6F3-D20	140G-J6F4-D20	140G-J0F3-D20	140G-J0F4-D20
225	157.5...225	1125...2250	140G-J6F3-D22	140G-J6F4-D22	140G-J0F3-D22	140G-J0F4-D22
250	175...250	1250...2500	140G-J6F3-D25	140G-J6F4-D25	140G-J0F3-D25	140G-J0F4-D25

Molded Case Circuit Breakers

Catalog Number Explanation — 250 A, J-Frame

Complete Circuit Breaker Assemblies — 250 A, J-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, trip units, 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 – **J** **3** **C** **3** – **C60** – **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
J	250 A

c

Interrupting Rating/Breaking Capacity (based on I_c at 480V)	
Code	Description
2	25 kA
3	35 kA
6	65 kA
0	100 kA
T	Trip unit

d

Protection Type	
Code	Description
C	Fixed thermal/ fixed magnetic
E	Adjust thermal/ fixed magnetic
F	Adjust thermal/ adjust magnetic
H	Electronic LSI-long, short, instant
I	Electronic LSIg -long, short, instant & ground fault
X	Breaker frame
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
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
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
KA	1 Aux. Contact, 250V
TA	1 Alarm Contact, 250V
AA	1 Aux., 1 Alarm Contact, 250V
BA	2 Aux., 1 Alarm Contact, 250V
DA	1 Trip Unit Alarm Contact, 250V
FB	2 Aux. Contacts, 400V
AB	1 Aux., 1 Alarm Contact, 400V
AJ	1 Aux., 1 Alarm Contact, 24V
DJ	1 Trip Unit Alarm Contact, 24V

♦ Select up to two internal options: 1 for left side mounting, 1 for right. Consult your local Rockwell automation sales office or Allen-Bradley distributor for further assistance.



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

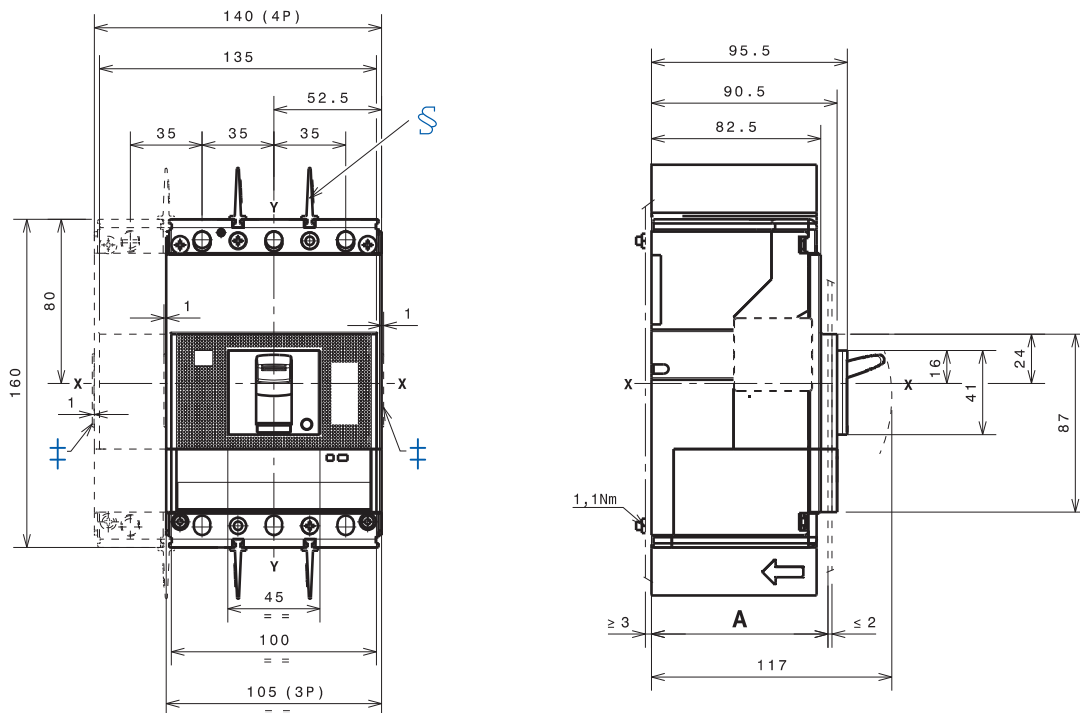
Frame Reference	G-Frame	H-Frame	I-Frame	J-Frame	K-Frame	M-Frame	N-Frame	NS-Frame	R-Frame
Rated Current I_n	125 A	125 A	225 A	250 A	400 A	800 A	1200 A	1200 A	3000 A
No. of Poles	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4
Interrupting Rating [kA]									
240V	50 65 100	65 100 150 200 200	50 65	65 100 150 200	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

Approximate Dimensions — 250 A, J-Frame

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

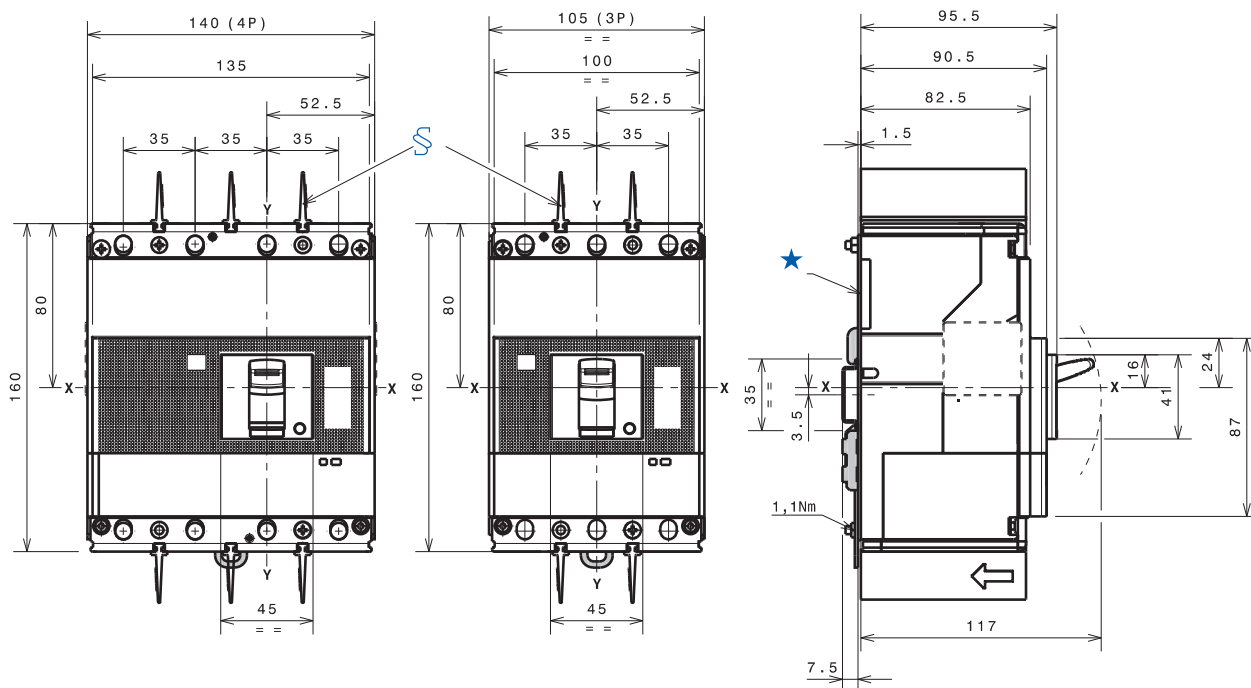
Panel Mounted Molded Case Circuit Breaker



± Overall dimensions of optional wiring ducts.
§ Required 25 mm insulating phase barriers provided.

Description	No. of Poles	A
With flange	3...4	86
Without flange	3...4	83.5
	3...4	91.5

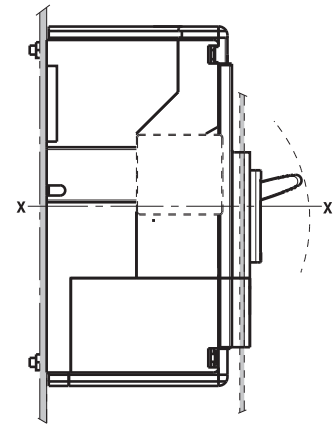
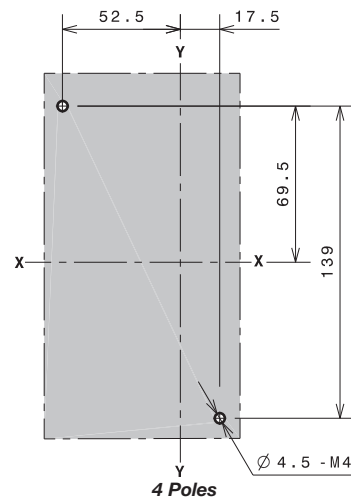
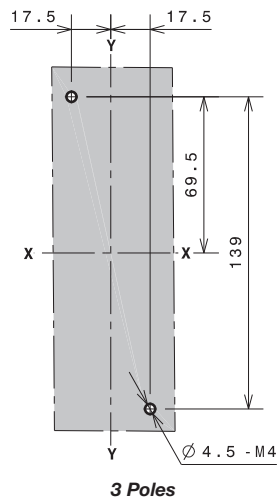
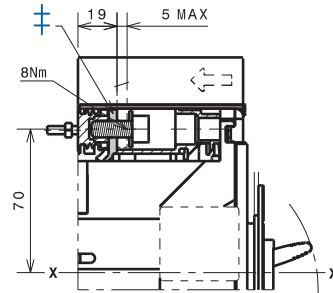
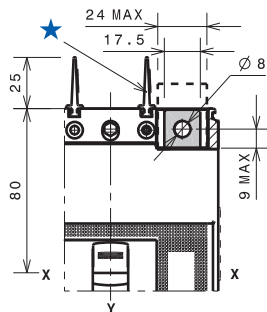
DIN Rail Mounted Molded Case Circuit Breaker



★ Mounting bracket
§ Required 25 mm insulating phase barriers provided

Molded Case Circuit Breakers

Approximate Dimensions — 250 A, J-Frame

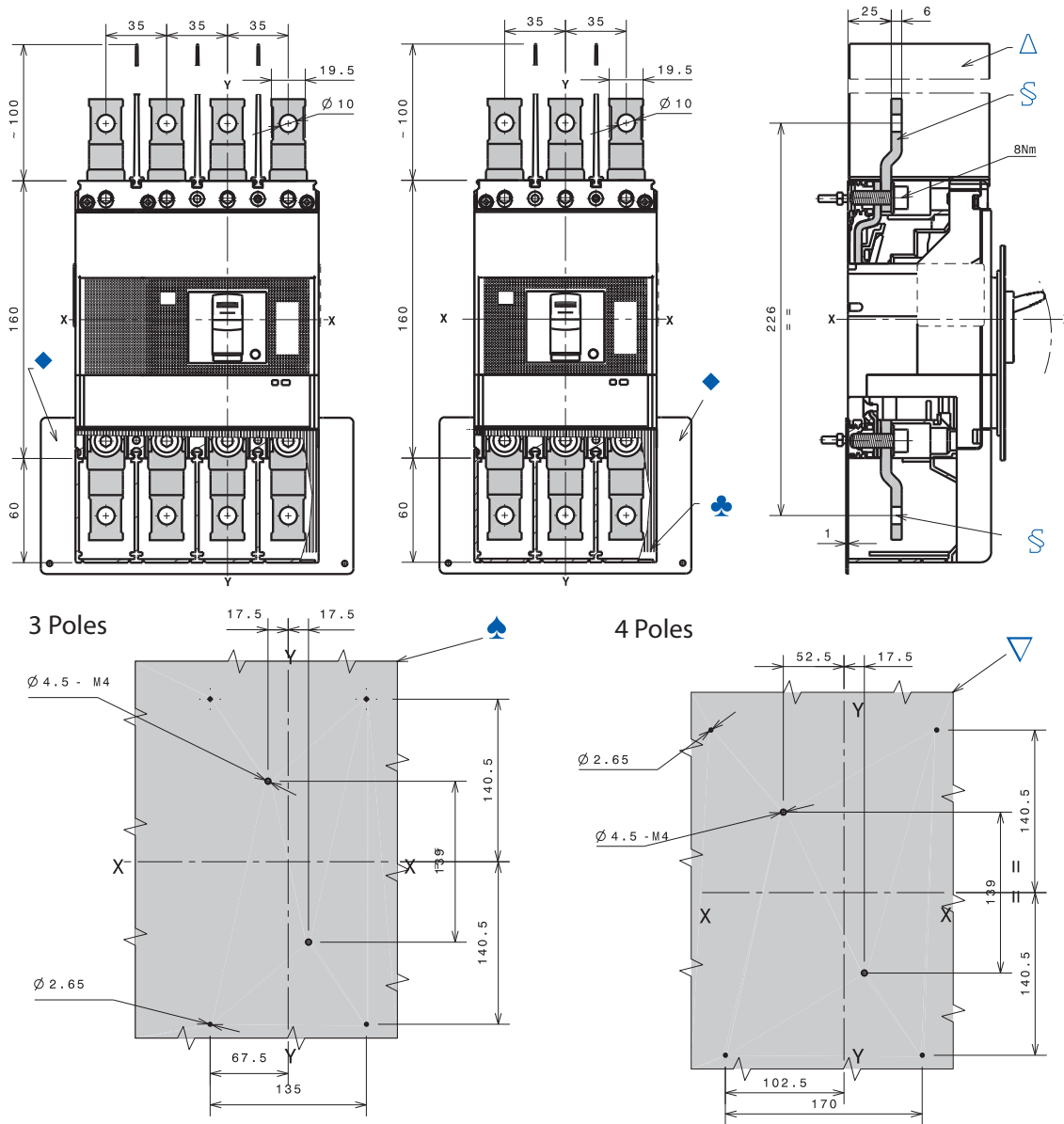
Drilling Template for Molded Case Circuit Breaker Mounting**Cat. Nos. 140G-J-ECM, -ECM4 Terminals**

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

Molded Case Circuit Breakers

Approximate Dimensions — 250 A, J-Frame

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



§ Extended terminals

♣ Optional terminal covers with IP40 protection provided

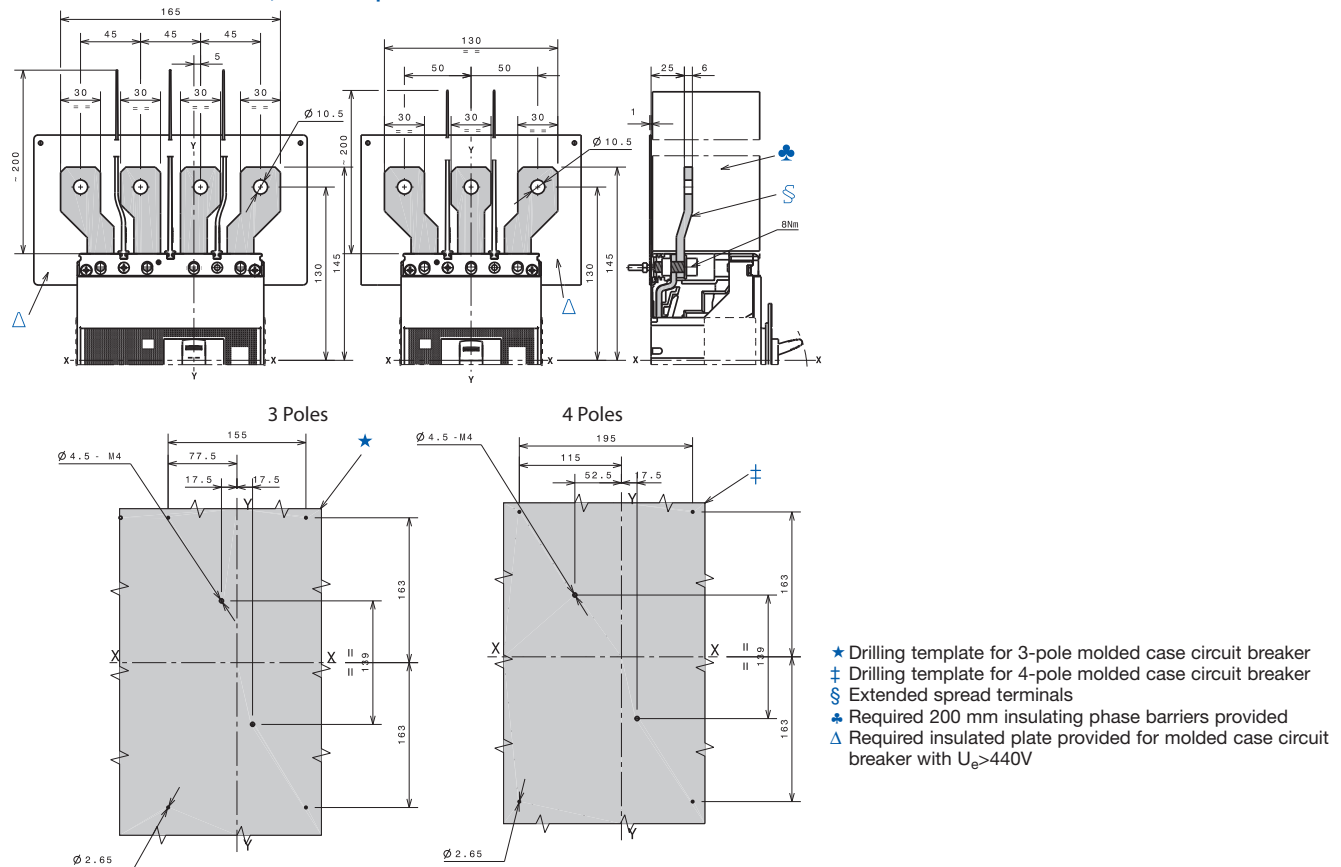
△ Required 100 mm insulating phase barriers provided

◆ Required insulating plate provided for molded case circuit breaker with $U_0 > 440V$

♠ Drilling template for 3-pole molded case circuit breaker

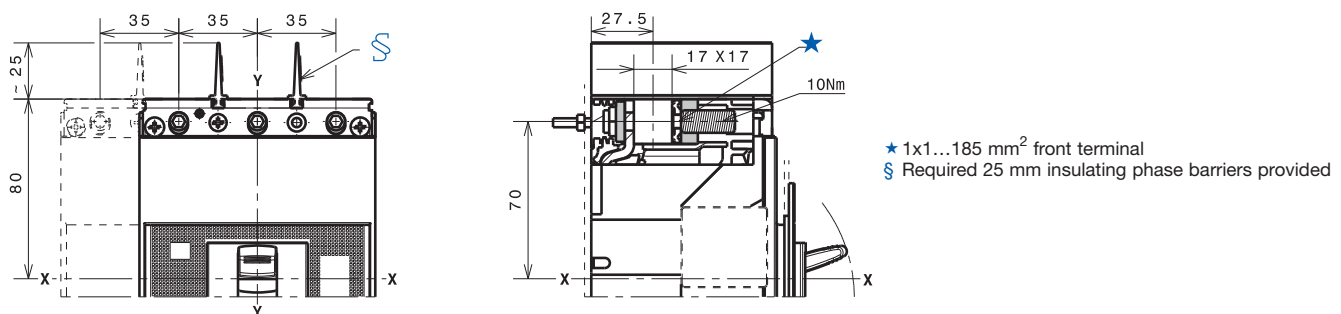
▽ Drilling template for 4-pole molded case circuit breaker

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



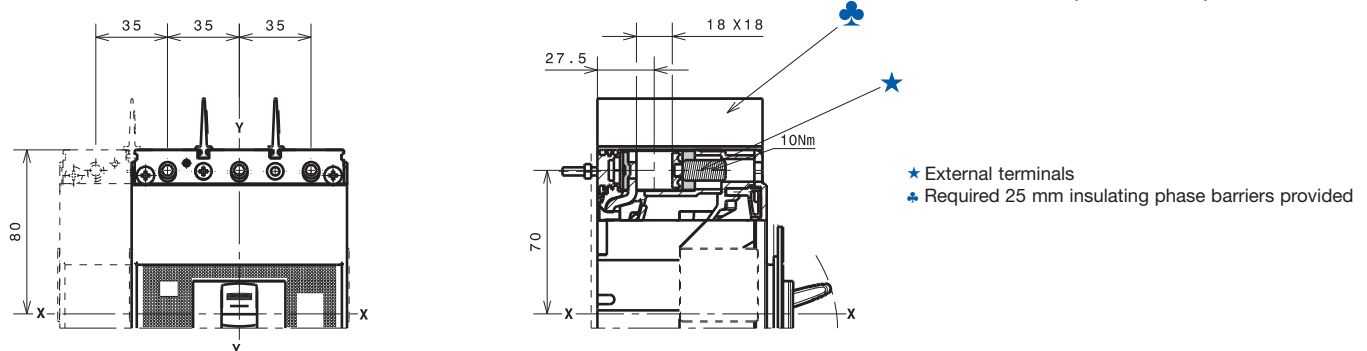
Cat. Nos. 140G-J-TLA13, -TLA14 Terminal Lugs

Aluminum Conductor: 6...350 MCM (2.5...185 mm)
 Copper Conductor: 10...350 MCM (6...185 mm)



Cat. Nos. 140G-J-TLC13, -TLC14 Terminal Lugs

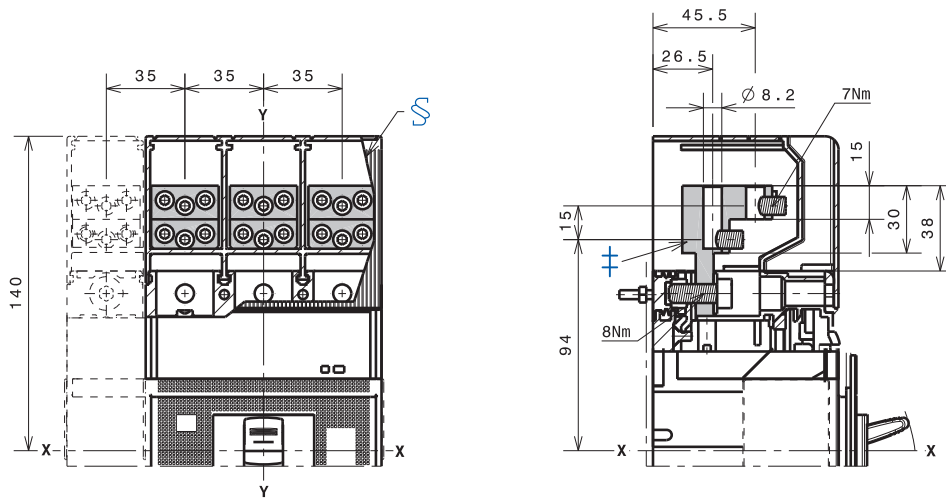
10...350 MCM (6...185 mm)



Molded Case Circuit Breakers

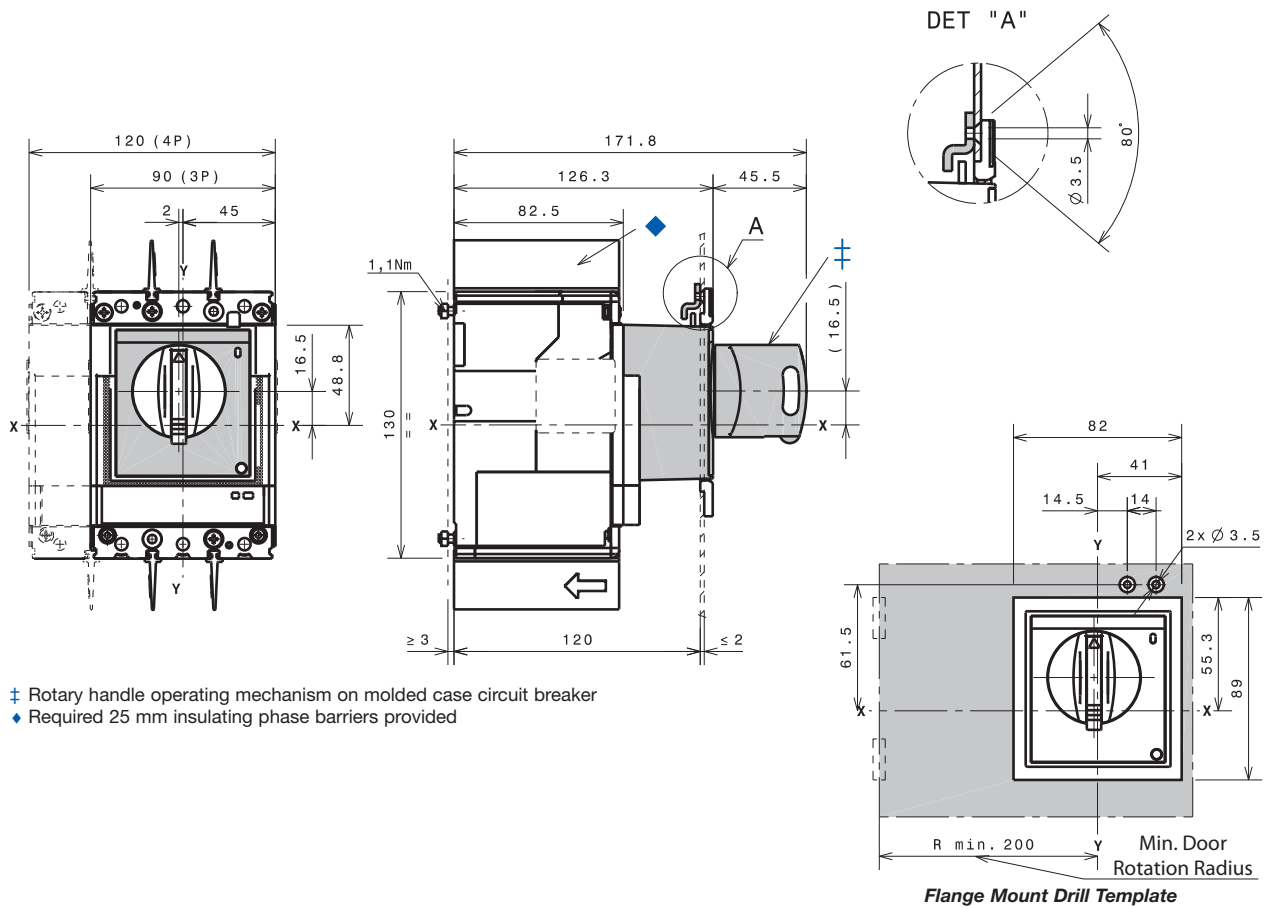
Approximate Dimensions — 250 A, J-Frame

Cat. Nos. 140G-J-MTL63, -MTL64 Terminals



† Multi-cable terminal lugs

§ Optional terminal covers with IP40 protection provided



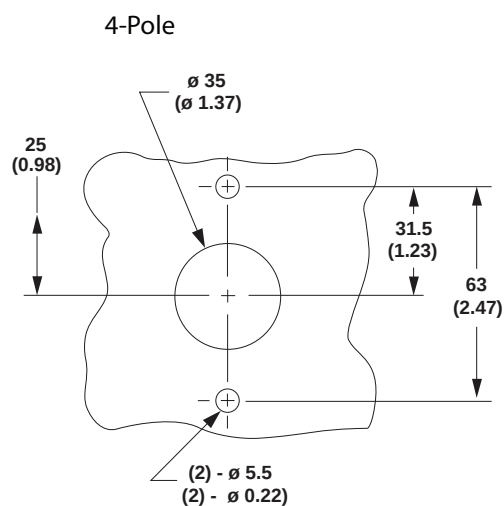
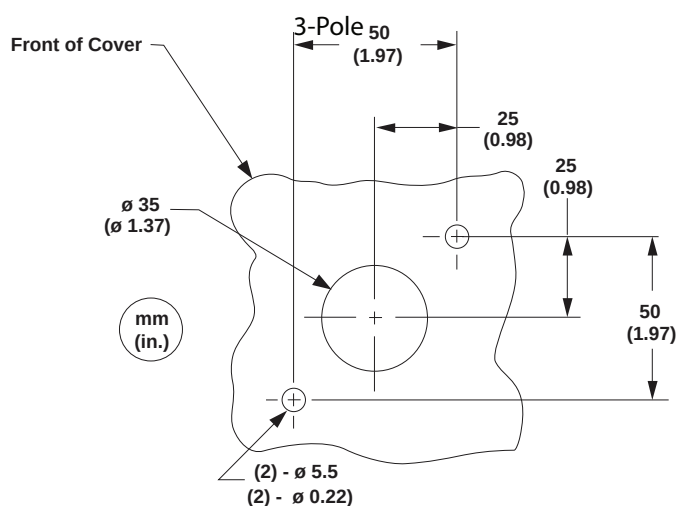
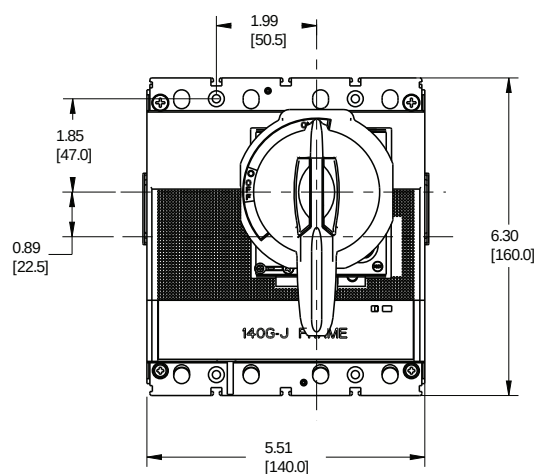
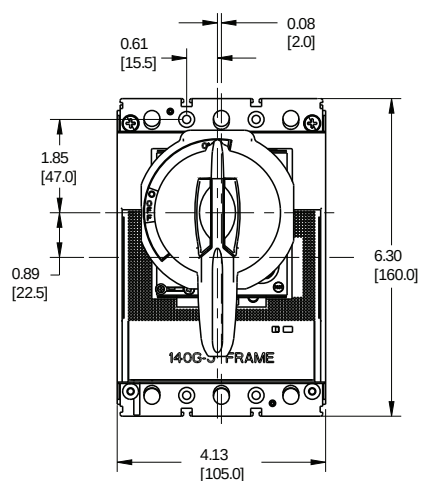
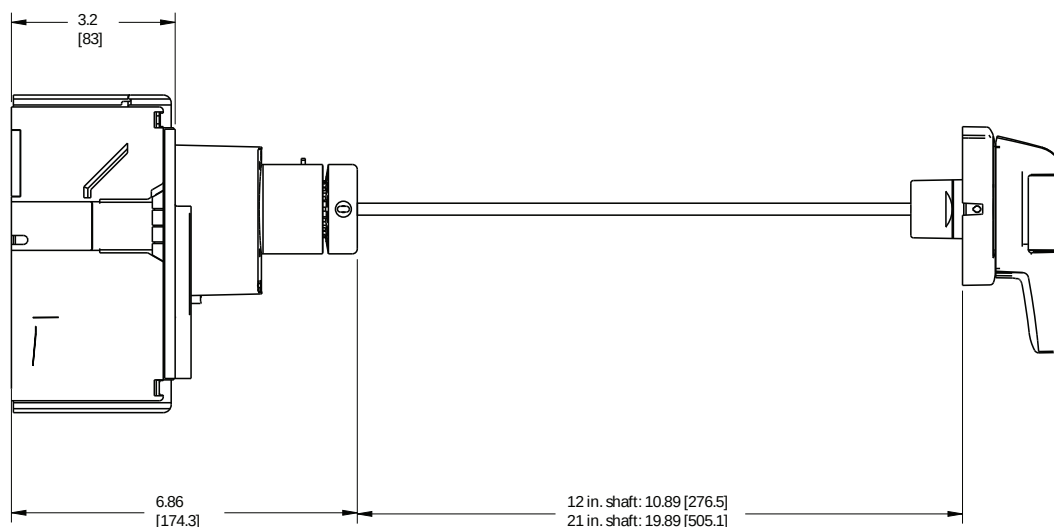
† Rotary handle operating mechanism on molded case circuit breaker

◆ Required 25 mm insulating phase barriers provided

Molded Case Circuit Breakers

Approximate Dimensions — 250 A, J-Frame

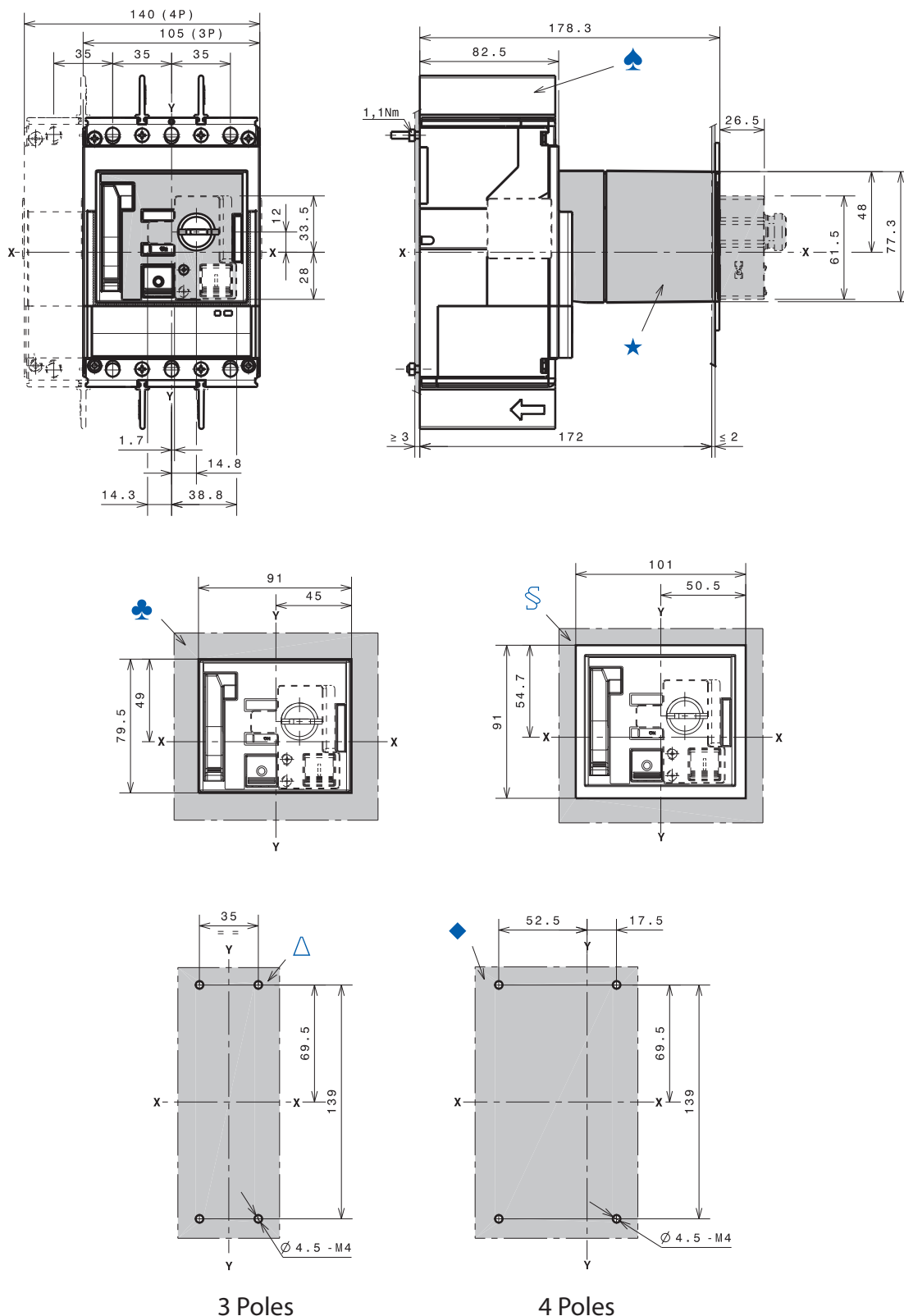
Cat. No. 140G-H-RVM... Variable Depth Rotary Handle Operating Mechanism (For J-Frame Molded Case Circuit Breaker)



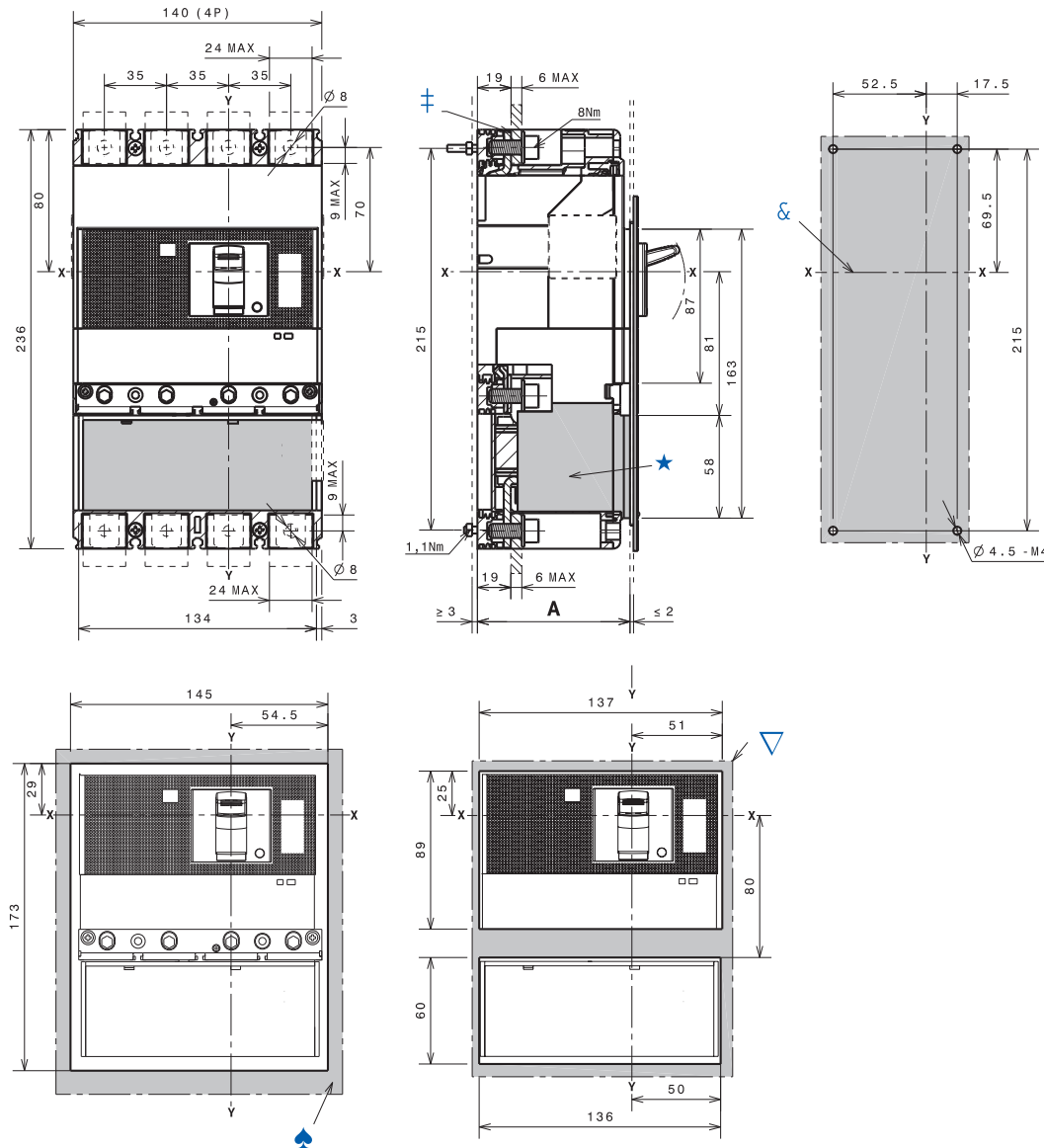
Molded Case Circuit Breakers

Approximate Dimensions — 250 A, J-Frame

Cat. No. 140G-H-EOP... Motor Operator – For H- & J-Frame Molded Case Circuit Breaker



Cat. No. 140G-J-EP2504 Residual Current Release Module for 4-Pole Molded Case Circuit Breakers



Description	No. of Poles	A
With flange	4	86
Without flange	4	83.5

- ★ Residual current module
- ‡ Front terminals
- ▲ Drilling template — door with direct rotary mechanism and flange
- ▼ Drilling template — door with direct rotary mechanism, without flange
- & Drilling template — molded case circuit breaker mounting on mounting plate

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 _i , 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 _{cu}							
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 _{cs}							
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