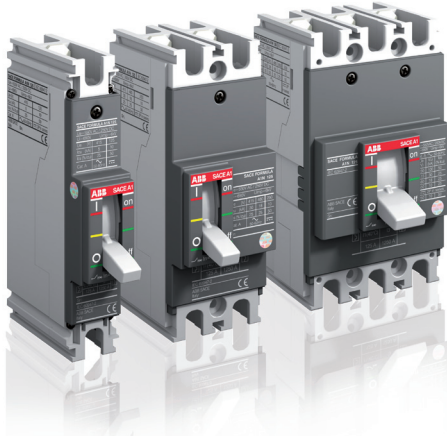


# FORMULA UL Molded Case Circuit Breakers A1 & A2 Frames

## A1 Frames



### General

ABB's FORMULA molded case circuit breaker line offers simplicity and quality in some of the smallest dimensions available. The FORMULA A1 breaker frame size ranges in amperes from 15 through 100 with protection trip units that have fixed thermal and magnetic threshold values. The frame is available in a fixed version with front terminals.

#### Standards

UL 489 & IEC 60947-2

#### Dimensions (w x d x h):

1 pole: 1.00" x 2.36" x 5.12"

2 pole: 2.00" x 2.36" x 5.12"

3 pole: 3.00" x 2.36" x 5.12"

#### Weight:

1 pole: 0.54 lbs

2 pole: 1.04 lbs

3 pole: 1.54 lbs

#### Available Accessories:

Shunt opening release (2p & 3p)

Undervoltage release (2p & 3p)

Auxiliary contacts (2p & 3p)

Termination kits (1p, 2p & 3p)

Padlocks (1p, 2p & 3p)

Direct and extended rotary handles (3p)

### A1 100A - Fixed (F) 1 pole - Front terminals (F) Thermomagnetic trip unit - TMF Icu (240 V)

Rating A	Magnetic trip A	Catalog number A (10kA)	Catalog number N (18kA)
15	400	A1A015TW-1	A1N015TW-1
20	400	A1A020TW-1	A1N020TW-1
25	400	A1A025TW-1	A1N025TW-1
30	400	A1A030TW-1	A1N030TW-1
40	400	A1A040TW-1	A1N040TW-1
50	500	A1A050TW-1	A1N050TW-1
60	600	A1A060TW-1	A1N060TW-1
70	700	A1A070TW-1	A1N070TW-1
80	800	A1A080TW-1	A1N080TW-1
90	900	A1A090TW-1	A1N090TW-1
100	1000	A1A100TW-1	A1N100TW-1

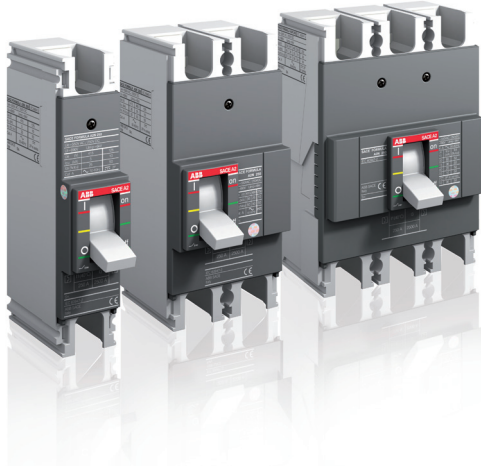
### A1 100A - Fixed (F) 2 pole - Front terminals (F) Thermomagnetic trip unit - TMF Icu (240 V)

Rating A	Magnetic trip A	Catalog number A (10kA)	Catalog number N (25kA)
15	400	A1A015TW-2	A1N015TW-2
20	400	A1A020TW-2	A1N020TW-2
25	400	A1A025TW-2	A1N025TW-2
30	400	A1A030TW-2	A1N030TW-2
40	400	A1A040TW-2	A1N040TW-2
50	500	A1A050TW-2	A1N050TW-2
60	600	A1A060TW-2	A1N060TW-2
70	700	A1A070TW-2	A1N070TW-2
80	800	A1A080TW-2	A1N080TW-2
90	900	A1A090TW-2	A1N090TW-2
100	1000	A1A100TW-2	A1N100TW-2

### A1 100A - Fixed (F) 3 pole - Front terminals (F) Thermomagnetic trip unit - TMF Icu (240 V)

Rating A	Magnetic trip A	Catalog number A (10kA)	Catalog number N (25kA)
15	300	A1A015TW	A1N015TW
20	300	A1A020TW	A1N020TW
25	300	A1A025TW	A1N025TW
30	300	A1A030TW	A1N030TW
40	400	A1A040TW	A1N040TW
50	500	A1A050TW	A1N050TW
60	600	A1A060TW	A1N060TW
70	700	A1A070TW	A1N070TW
80	800	A1A080TW	A1N080TW
90	900	A1A090TW	A1N090TW
100	1000	A1A100TW	A1N100TW

# A2 Frames



## General

ABB's FORMULA molded case circuit breaker line offers simplicity and quality in some of the smallest dimensions available. The FORMULA A2 breaker frame size ranges in amperes from 125 through 250 with protection trip units that have fixed thermal and magnetic threshold values. The frame is available in a fixed version with front terminals.

## Standards

UL 489 & IEC 60947-2

## Dimensions (w x d x h):

1 pole: 1.38" x 2.36" x 5.91"

2 pole: 2.76" x 2.36" x 5.91"

3 pole: 4.13" x 2.36" x 5.91"

## Weight:

1 pole: 0.82 lbs

2 pole: 1.61 lbs

3 pole: 2.43 lbs

## Available Accessories:

Shunt opening release (2p & 3p)

Undervoltage release (2p & 3p)

Auxiliary contacts (2p & 3p)

Termination kits (1p, 2p & 3p)

Padlocks (1p, 2p & 3p)

Direct and extended rotary handles (3p)

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Web: [www.abb.us/lowvoltage](http://www.abb.us/lowvoltage)

## A2 250A - Fixed (F) 1 pole - Front terminals (F)

### Thermomagnetic trip unit - TMF Icu (240 V)

Rating A	Magnetic trip A	Catalog number A (10kA)	Catalog number N (14kA)
125	1250	A2A125TW-1	A2N125TW-1
150	1500	A2A150TW-1	A2N150TW-1
175	1750	A2A175TW-1	A2N175TW-1
200	2000	A2A200TW-1	A2N200TW-1
225	2250	A2A225TW-1	A2N225TW-1
250	2500	A2A250TW-1	A2N250TW-1

## A2 250A - Fixed (F) 2 pole - Front terminals (F)

### Thermomagnetic trip unit - TMF Icu (240 V)

Rating A	Magnetic trip A	Catalog number A (10kA)	Catalog number N (25kA)
125	1250	A2A125TW-2	A2N125TW-2
150	1500	A2A150TW-2	A2N150TW-2
175	1750	A2A175TW-2	A2N175TW-2
200	2000	A2A200TW-2	A2N200TW-2
225	2250	A2A225TW-2	A2N225TW-2
250	2500	A2A250TW-2	A2N250TW-2

## A2 250A - Fixed (F) 3 pole - Front terminals (F)

### Thermomagnetic trip unit - TMF Icu (240 V)

Rating A	Magnetic trip A	Catalog number A (10kA)	Catalog number N (25kA)
125	1250	A2A125TW	A2N125TW
150	1500	A2A150TW	A2N150TW
175	1750	A2A175TW	A2N175TW
200	2000	A2A200TW	A2N200TW
225	2250	A2A225TW	A2N225TW
250	2500	A2A250TW	A2N250TW