



2021 Product Catalog

Molded Case Circuit Breakers

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MOLDED CASE CIRCUIT BREAKERS

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R2CB SERIES

Molded-Case Circuit Breaker UL 489 Listed

The Benshaw R2CB Series of Molded Case Circuit Breakers is designed to provide overload and short-circuit protection for industrial electrical equipment. Available in seven different compact frame sizes, the Benshaw MCCB is a safe, reliable solution for applications from 15 to 1200 Amps.

STANDARD FEATURES:

- High short-circuit interrupting ratings - up to 100kA @ 480V
- Fixed Thermal trip settings
- Mechanical Lugs (Line and Load Side included)
- Mounting-Hardware (Screws included)
- Handle and cable ordered separately
- Suitable for reverse feed applications
- Compact frame
- 800-1200 Amp breakers have electronic trip (see page 24)

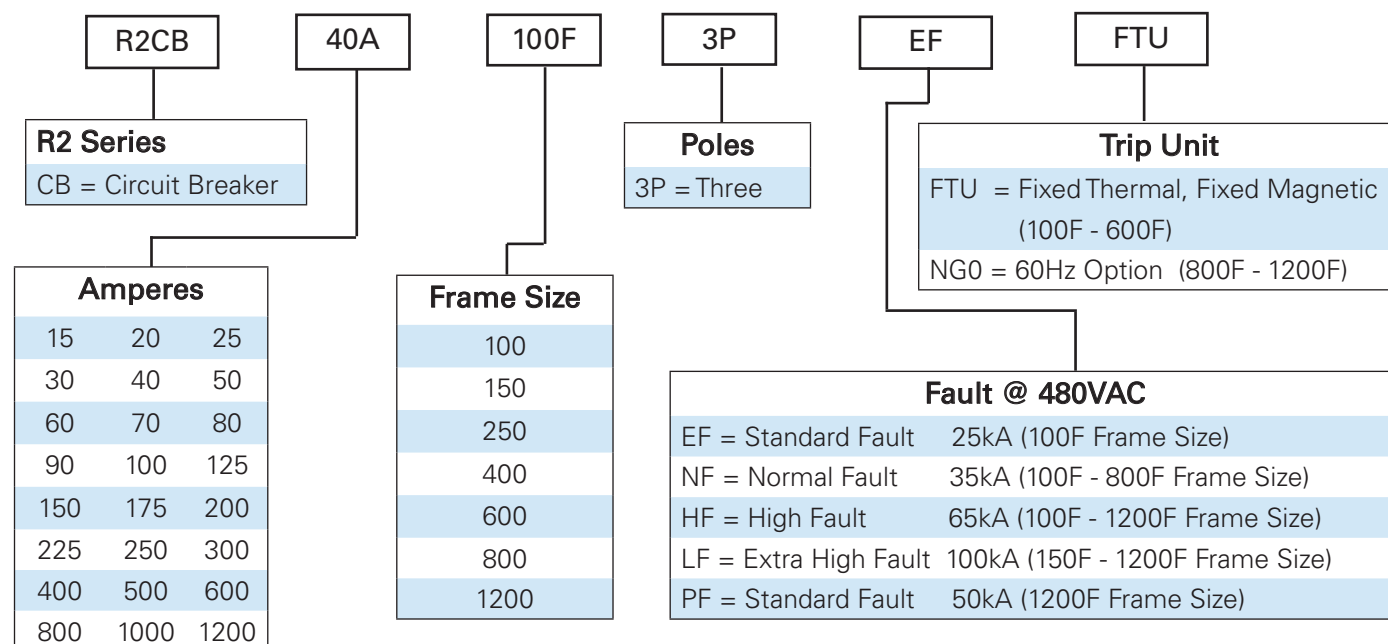
The following circuit breaker models have been tested to provide current limiting capabilities:

100F	E, N
150F	N, H, L
250F	N, H, L
400F	N, H, L

600F	N, H, L
800F	H, L
1200F	H, L



R2CB PART NUMBER ASSEMBLER



SERIES OVERVIEW

Molded-Case Circuit Breaker 100F, 150F, 250F



FRAME

Maximum Rated Current	
Number of Poles	
Breaker Type	
UL489/CSA C22.2	
Interrupting Capacity (kA rms)	120/240V
AC(50/60HZ)	240Vac
UL, CSA	480Vac
	600Vac
	600Y/347Vac
UL489 DC	
Interrupting Capacity	250V dc-2P
(kA) DC	500V dc-3P
UL, CSA	600V dc-3P
IEC 60947-2	
Ultimate Breaking Capacity, (kA rms) AC	220/240V
	380/415V
50/60Hz, Icu	480/500V
Service Breaking Capacity, Ics (%Icu)	
Insulation Voltage, UI	
Impulse Withstand Voltage, UImp	
Rated Short-Time Withstand Current (Icw)	
Utilization Category	

100F

100A	100A	30A
3	3	3
EF	NF	HF
100F		
50	65	100
50	65	100
25	35	65
	-	
14	18	35
100F		
16	25	-
25	35	-
	-	
100F		
50	65	65
25	35	35
	-	
100%		
750 Vac		
8 kVac		
-		
A		

150F

150A		
3		
NF	HF	LF
150F		
-	-	-
65	100	150
35	65	100
18	35	50
-	-	-
150F		
35	50	65
-	-	-
35	50	65
150F		
65	100	150
35	65	100
18	35	50
100%		
750 Vac		
8 kVac		
-		
A		

250F

250A		
3		
NF	HF	LF
250F		
-	-	-
65	100	150
35	65	100
18	35	50
-	-	-
250F		
35	50	65
-	-	-
35	50	65
250F		
65	100	150
35	65	100
18	35	50
100%		
750 Vac		
8 kVac		
-		
A		

SERIES OVERVIEW

Accessories Overview for Circuit Breaker 100F, 150F, 250F



FRAME

	100F			150F			250F		
Unit Mounted (allows for direct connection to busbar)	std			std			std		
Mechanical Line and Load Lugs	std			std			std		
Busbar Connectors	opt			opt			opt		
Terminal Shields	std			std			std		
Shunt Trip	opt			opt			opt		
Auxiliary Switch	opt			opt			opt		
Flange Cable Handle and Mechanism	opt			opt			opt		
NEMA-Door-Mounted Rotary Operating Handle and Mechanism	opt			opt			opt		
Mechanical Interlocking Device	opt			opt			opt		
Weight Lbs. (kg)	2.33(1.06)			3.95(1.79)			4.49(2.04)		
Dimensions Inches (mm) W x H x D	W	H	D	W	H	D	W	H	D
	2.99 (76)	5.12 (130)	3.44 (87.5)	4.13 (105)	6.50 (165)	3.44 (87.5)	4.13 (105)	7.48 (190)	3.44 (87.5)

UL MOLDED CASE CIRCUIT BREAKERS

Molded-Case Circuit Breaker 400F, 600F



FRAME

Maximum Rated Current	
Number of Poles	
Breaker Type	
UL489/CSA C22.2	
Interrupting Capacity (kA rms) AC(50/60HZ) UL, CSA	120/240V
	240V ac
	480V ac
	600V ac
600Y/347Vac	
UL489 DC	
Interrupting Capacity	250V dc-2P
(kA) DC	600V dc-3P
UL, CSA	600V dc-3P
IEC 60947-2	
Ultimate Breaking Capacity,	220/240V
(kA rms) AC	380/415V
50/60Hz, Icu	480/500V
Service Breaking Capacity, Ics (%Icu)	
Insulation Voltage, Ui	
Impulse Withstand Voltage, UImp	
Rated Short-Time Withstand Current (Icw)	
Utilization Category	

400F

400A		
3		
NF	HF	LF
400F		
-	-	-
65	100	150
35	65	100
18	35	50
-	-	-
400F		
35	50	65
-	-	-
35	50	65
400F		
65	100	150
35	65	100
18	35	50
100%		
750 Vac		
8kVac		
-		
A		

600F

600A		
3		
NF	HF	LF
600F		
-	-	-
65	100	150
35	65	100
18	35	50
-	-	-
600F		
35	50	65
-	-	-
35	50	65
600F		
65	100	150
35	65	100
18	35	50
100%		
750 Vac		
8 kVac		
-		
A		

UL MOLDED CASE CIRCUIT BREAKERS

Accessories Overview for Circuit Breaker 400F, 600F



FRAME

Unit Mounted (allows for direct connection to busbar)
Mechanical Line and Load Lugs
Busbar Connectors
Terminal Shields
Shunt Trip
Auxiliary Switch
Flange Cable Handle and Mechanism
NEMA-Door-Mounted Rotary Operating Handle and Mechanism
Mechanical Interlocking Device
Weight Lbs. (kg)
Dimensions Inches (mm) W x H x D

400F

std
std
opt
std
opt
opt
opt
opt
13.89(6.30)
W H D
5.51(140) 11.42(290) 4.33(110)

600F

std
std
opt
std
opt
opt
opt
opt
15.79(7.16)
W H D
5.51(140) 13.39(340) 4.33(110)

UL MOLDED CASE CIRCUIT BREAKERS

Molded-Case Circuit Breaker 800F, 1200F



FRAME

Maximum Rated Current	
Number of Poles	
Breaker Type	
UL489/CSA C22.2	
Interrupting Capacity (kA rms)	120/240V
AC(50/60HZ)	240V ac
UL, CSA	480V ac
	600V ac
	600Y/347Vac
UL489 DC	
Interrupting Capacity	250V dc-2P
(kA) DC	500V dc-3P
UL, CSA	600V dc-3P
IEC 60947-2	
Ultimate Breaking Capacity,	220/240V
(kA rms) AC	380/415V
50/60Hz, Icu	480/500V
Service Breaking Capacity, Ics (%Icu)	
Insulation Voltage, Ui	
Impulse Withstand Voltage, UImp	
Rated Short-Time Withstand Current (Icw)	
Utilization Category	

800F

800A		
3		
NF	HF	LF
800F		
-	-	-
65	100	150
35	65	100
18	35	50
-	-	-
800F		
-		
-		
-		
800F		
65	100	150
35	65	100
18	35	50
100%		
1000 Vac		
8 kVac		
18kA	-	-
B	A	A

1200F

1200A		
3		
PF	HF	LF
1200F		
-	-	-
65	100	150
50	65	100
50	25	35
-	-	-
1200F		
-		
-		
-		
1200F		
65	100	150
50	65	100
50	35	50
100%		
1000 Vac		
8 kVac		
25kA	-	-
B	A	A

UL MOLDED CASE CIRCUIT BREAKERS

Accessories Overview for Circuit Breaker 800F, 1200F



FRAME

Unit Mounted (allows for direct connection to busbar)
Mechanical Line and Load Lugs
Busbar Connectors
Terminal Shields
Shunt Trip
Auxiliary Switch
Flange Cable Handle and Mechanism
NEMA-Door-Mounted Rotary Operating Handle and Mechanism
Mechanical Interlocking Device
Weight Lbs. (kg)
Dimensions Inches (mm) W x H x D

800F

std
std
opt
std
opt
opt
opt
opt
opt
31.35(14.22)
W H D
8.27(210) 12.88(327.2) 6(152.5)

1200F

std
std
opt
std
opt
opt
opt
opt
opt
48.28 (18.27)
W H D
8.27(210) 16.26(413) 6(152.5)

R2CB SERIES CIRCUIT BREAKERS - FIXED THERMAL, FIXED MAGNETIC



100F Frame Standard Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-15A-100F-3P-EF-FTU	15	400A	50	25	N/A	\$276.00
R2CB-20A-100F-3P-EF-FTU	20	400A	50	25	N/A	\$276.00
R2CB-25A-100F-3P-EF-FTU	25	400A	50	25	N/A	\$276.00
R2CB-30A-100F-3P-EF-FTU	30	400A	50	25	N/A	\$276.00
R2CB-40A-100F-3P-EF-FTU	40	400A	50	25	N/A	\$276.00
R2CB-50A-100F-3P-EF-FTU	50	800A	50	25	N/A	\$276.00
R2CB-60A-100F-3P-EF-FTU	60	800A	50	25	N/A	\$276.00
R2CB-70A-100F-3P-EF-FTU	70	800A	50	25	N/A	\$276.00
R2CB-80A-100F-3P-EF-FTU	80	800A	50	25	N/A	\$276.00
R2CB-90A-100F-3P-EF-FTU	90	1000A	50	25	N/A	\$276.00
R2CB-100A-100F-3P-EF-FTU	100	1000A	50	25	N/A	\$276.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

100F Frame Normal Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-15A-100F-3P-NF-FTU	15	400A	65	35	N/A	\$276.00
R2CB-20A-100F-3P-NF-FTU	20	400A	65	35	N/A	\$276.00
R2CB-25A-100F-3P-NF-FTU	25	400A	65	35	N/A	\$276.00
R2CB-30A-100F-3P-NF-FTU	30	400A	65	35	N/A	\$276.00
R2CB-40A-100F-3P-NF-FTU	40	400A	65	35	N/A	\$276.00
R2CB-50A-100F-3P-NF-FTU	50	800A	65	35	N/A	\$276.00
R2CB-60A-100F-3P-NF-FTU	60	800A	65	35	N/A	\$276.00
R2CB-70A-100F-3P-NF-FTU	70	800A	65	35	N/A	\$276.00
R2CB-80A-100F-3P-NF-FTU	80	800A	65	35	N/A	\$276.00
R2CB-90A-100F-3P-NF-FTU	90	1000A	65	35	N/A	\$276.00
R2CB-100A-100F-3P-NF-FTU	100	1000A	65	35	N/A	\$276.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

100F Frame High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-15A-100F-3P-HF-FTU	15	400A	100	65	N/A	\$390.00
R2CB-20A-100F-3P-HF-FTU	20	400A	100	65	N/A	\$390.00
R2CB-25A-100F-3P-HF-FTU	25	400A	100	65	N/A	\$390.00
R2CB-30A-100F-3P-HF-FTU	30	400A	100	65	N/A	\$390.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

R2CB SERIES CIRCUIT BREAKERS - FIXED THERMAL, FIXED MAGNETIC



150F Frame Normal Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-40A-150F-3P-NF-FTU	40	500A	65	35	18	\$448.00
R2CB-50A-150F-3P-NF-FTU	50	500A	65	35	18	\$448.00
R2CB-60A-150F-3P-NF-FTU	60	800A	65	35	18	\$448.00
R2CB-70A-150F-3P-NF-FTU	70	800A	65	35	18	\$448.00
R2CB-80A-150F-3P-NF-FTU	80	800A	65	35	18	\$448.00
R2CB-90A-150F-3P-NF-FTU	90	1000A	65	35	18	\$448.00
R2CB-100A-150F-3P-NF-FTU	100	1000A	65	35	18	\$448.00
R2CB-125A-150F-3P-NF-FTU	125	1250A	65	35	18	\$448.00
R2CB-150A-150F-3P-NF-FTU	150	1500A	65	35	18	\$448.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

150F Frame High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-40A-150F-3P-HF-FTU	40	500A	100	65	35	\$498.00
R2CB-50A-150F-3P-HF-FTU	50	500A	100	65	35	\$498.00
R2CB-60A-150F-3P-HF-FTU	60	800A	100	65	35	\$498.00
R2CB-70A-150F-3P-HF-FTU	70	800A	100	65	35	\$498.00
R2CB-80A-150F-3P-HF-FTU	80	800A	100	65	35	\$498.00
R2CB-90A-150F-3P-HF-FTU	90	1000A	100	65	35	\$498.00
R2CB-100A-150F-3P-HF-FTU	100	1000A	100	65	35	\$498.00
R2CB-125A-150F-3P-HF-FTU	125	1250A	100	65	35	\$498.00
R2CB-150A-150F-3P-HF-FTU	150	1500A	100	65	35	\$498.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

150F Extra High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-40A-150F-3P-LF-FTU	40	500A	150	100	50	\$582.00
R2CB-50A-150F-3P-LF-FTU	50	500A	150	100	50	\$582.00
R2CB-60A-150F-3P-LF-FTU	60	800A	150	100	50	\$582.00
R2CB-70A-150F-3P-LF-FTU	70	800A	150	100	50	\$582.00
R2CB-80A-150F-3P-LF-FTU	80	800A	150	100	50	\$582.00
R2CB-90A-150F-3P-LF-FTU	90	1000A	150	100	50	\$582.00
R2CB-100A-150F-3P-LF-FTU	100	1000A	150	100	50	\$582.00
R2CB-125A-150F-3P-LF-FTU	125	1250A	150	100	50	\$582.00
R2CB-150A-150F-3P-LF-FTU	150	1500A	150	100	50	\$582.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

R2CB SERIES CIRCUIT BREAKERS - FIXED THERMAL, FIXED MAGNETIC



250F Frame Normal Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-150A-250F-3P-NF-FTU	150	1500A	65	35	18	\$633.00
R2CB-175A-250F-3P-NF-FTU	175	1750A	65	35	18	\$633.00
R2CB-200A-250F-3P-NF-FTU	200	2000A	65	35	18	\$633.00
R2CB-225A-250F-3P-NF-FTU	225	2250A	65	35	18	\$633.00
R2CB-250A-250F-3P-NF-FTU	250	2500A	65	35	18	\$633.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

250F Frame High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-150A-250F-3P-HF-FTU	150	1500A	100	65	35	\$710.00
R2CB-175A-250F-3P-HF-FTU	175	1750A	100	65	35	\$710.00
R2CB-200A-250F-3P-HF-FTU	200	2000A	100	65	35	\$710.00
R2CB-225A-250F-3P-HF-FTU	225	2250A	100	65	35	\$710.00
R2CB-250A-250F-3P-HF-FTU	250	2500A	100	65	35	\$710.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

250F Frame Extra High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-150A-250F-3P-LF-FTU	150	1500A	150	100	50	\$875.00
R2CB-175A-250F-3P-LF-FTU	175	1750A	150	100	50	\$875.00
R2CB-200A-250F-3P-LF-FTU	200	2000A	150	100	50	\$875.00
R2CB-225A-250F-3P-LF-FTU	225	2250A	150	100	50	\$875.00
R2CB-250A-250F-3P-LF-FTU	250	2500A	150	100	50	\$875.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

R2CB SERIES CIRCUIT BREAKERS - FIXED THERMAL, FIXED MAGNETIC



400F Frame Normal Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-250A-400F-3P-NF-FTU	250	2500A	65	35	18	\$1,223.00
R2CB-300A-400F-3P-NF-FTU	300	3000A	65	35	18	\$1,223.00
R2CB-400A-400F-3P-NF-FTU	400	4000A	65	35	18	\$1,223.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

400F Frame High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-250A-400F-3P-HF-FTU	250	2500A	100	65	35	\$1,370.00
R2CB-300A-400F-3P-HF-FTU	300	3000A	100	65	35	\$1,370.00
R2CB-400A-400F-3P-HF-FTU	400	4000A	100	65	35	\$1,370.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

400F Frame Extra High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-250A-400F-3P-LF-FTU	250	2500A	150	100	50	\$1,684.00
R2CB-300A-400F-3P-LF-FTU	300	3000A	150	100	50	\$1,684.00
R2CB-400A-400F-3P-LF-FTU	400	4000A	150	100	50	\$1,684.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

R2CB SERIES CIRCUIT BREAKERS - FIXED THERMAL, FIXED MAGNETIC



600F Frame Normal Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-500A-600F-3P-NF-FTU	500	5000A	65	35	18	\$1,840.00
R2CB-600A-600F-3P-NF-FTU	600	6000A	65	35	18	\$1,840.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

600F Frame High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-500A-600F-3P-HF-FTU	500	5000A	100	65	35	\$2,126.00
R2CB-600A-600F-3P-HF-FTU	600	6000A	100	65	35	\$2,126.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

600F Frame Extra High Fault Rating

Model Number	Thermal Setting	Magnetic Setting	Short Circuit Interrupting Capacity (kA)			List Price
	Amps	Amps	240VAC	480VAC	600VAC	
R2CB-500A-600F-3P-LF-FTU	500	5000A	150	100	50	\$2,802.00
R2CB-600A-600F-3P-LF-FTU	600	6000A	150	100	50	\$2,802.00

Note: Line and load lugs and mounting hardware (screws) included as standard.

R2CB SERIES CIRCUIT BREAKERS - NORMAL TYPE TRIP UNIT



800F Frame Normal Fault Rating

Model Number	Thermal Setting	Instantaneous Trip	Short Circuit Interrupting Capacity (kA)			List Price
	Amps		240VAC	480VAC	600VAC	
R2CB-600A-800F-3P-NF-NG0	600	Adjustable - (2 - 15) x Rated Current	65	35	18	\$2,351.00
R2CB-800A-800F-3P-NF-NG0	800	Adjustable - (2 - 15) x Rated Current	65	35	18	\$2,351.00

Note: Line and load lugs and mounting hardware included as standard.
NG0 is for a 60Hz supply only.
Consult factory for 50Hz applications.

800F Frame High Fault Rating

Model Number	Thermal Setting	Instantaneous Trip	Short Circuit Interrupting Capacity (kA)			List Price
	Amps		240VAC	480VAC	600VAC	
R2CB-600A-800F-3P-HF-NG0	600	Adjustable - (2 - 15) x Rated Current	100	65	35	\$2,821.00
R2CB-800A-800F-3P-HF-NG0	800	Adjustable - (2 - 15) x Rated Current	100	65	35	\$2,821.00

Note: Line and load lugs and mounting hardware included as standard.
NG0 is for a 60Hz supply only.
Consult factory for 50Hz applications.

800F Frame Extra High Fault Rating

Model Number	Thermal Setting	Instantaneous Trip	Short Circuit Interrupting Capacity (kA)			List Price
	Amps		240VAC	480VAC	600VAC	
R2CB-600A-800F-3P-LF-NG0	600	Adjustable - (2 - 15) x Rated Current	150	100	50	\$3,103.00
R2CB-800A-800F-3P-LF-NG0	800	Adjustable - (2 - 15) x Rated Current	150	100	50	\$3,103.00

Note: Line and load lugs and mounting hardware included as standard.
NG0 is for a 60Hz supply only.
Consult factory for 50Hz applications.

R2CB SERIES CIRCUIT BREAKERS - NORMAL TYPE TRIP UNIT



1200F Frame Standard Fault Rating

Model Number	Thermal Setting	Instantaneous Trip	Short Circuit Interrupting Capacity (kA)			List Price
	Amps		240VAC	480VAC	600VAC	
R2CB-1000A-1200F-3P-PF-NG0	1000	Adjustable - (2 - 15) x Rated Current	65	50	50	\$3,103.00
R2CB-1200A-1200F-3P-PF-NG0	1200	Adjustable - (2 - 15) x Rated Current	65	50	50	\$3,103.00

Note: Line and load lugs and mounting hardware included as standard.
NG0 is for a 60Hz supply only.
Consult factory for 50Hz applications.

1200F Frame High Fault Rating

Model Number	Thermal Setting	Instantaneous Trip	Short Circuit Interrupting Capacity (kA)			List Price
	Amps		240VAC	480VAC	600VAC	
R2CB-1000A-1200F-3P-HF-NG0	1000	Adjustable - (2 - 15) x Rated Current	100	65	25	\$3,178.00
R2CB-1200A-1200F-3P-HF-NG0	1200	Adjustable - (2 - 15) x Rated Current	100	65	25	\$3,178.00

Note: Line and load lugs and mounting hardware included as standard.
NG0 is for a 60Hz supply only.
Consult factory for 50Hz applications.

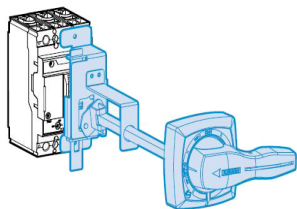
1200F Frame Extra High Fault Rating

Model Number	Thermal Setting	Instantaneous Trip	Short Circuit Interrupting Capacity (kA)			List Price
	Amps		240VAC	480VAC	600VAC	
R2CB-1000A-1200F-3P-LF-NG0	1000	Adjustable - (2 - 15) x Rated Current	150	100	35	\$4,058.00
R2CB-1200A-1200F-3P-LF-NG0	1200	Adjustable - (2 - 15) x Rated Current	150	100	35	\$4,058.00

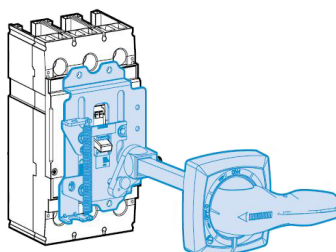
Note: Line and load lugs and mounting hardware included as standard.
NG0 is for a 60Hz supply only.
Consult factory for 50Hz applications.

R2CB SERIES CIRCUIT BREAKERS - ACCESSORIES

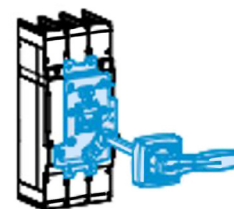
Rotary Operator and Shaft Extension



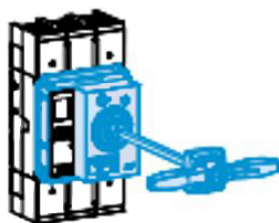
R2CB-EH [V0C12, X0C12]



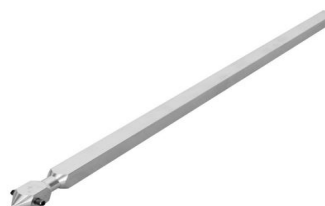
R2CB-EH [V212, X212]



R2CB-EH [V312, X312]



R2CB-EH [V512, X512]

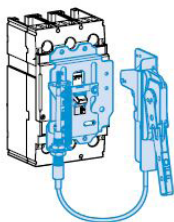


R2CB-ESHAFTXX

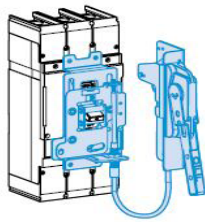
Model Number	Description	Frame	List Price
R2CB-EHV0C12	Front Mount Rotary Operator, NEMA Type: 3, 3R, 4, 12inch Shaft	100F	\$109.00
R2CB-EHX0C12	Front Mount Rotary Operator, NEMA Type: 3, 4, 4X, 12inch Shaft	100F	\$124.00
R2CB-EHV212	Front Mount Rotary Operator, NEMA Type: 3, 3R, 4, 12inch Shaft	150F / 250F	\$139.00
R2CB-EHX212	Front Mount Rotary Operator, NEMA Type: 3, 4, 4X, 12inch Shaft	150F / 250F	\$154.00
R2CB-EHV312	Front Mount Rotary Operator, NEMA Type: 3, 3R, 4, 12inch Shaft	400F / 600F	\$159.00
R2CB-EHX312	Front Mount Rotary Operator, NEMA Type: 3, 4, 4X, 12inch Shaft	400F / 600F	\$179.00
R2CB-EHV512	Front Mount Rotary Operator, NEMA Type: 3, 3R, 4, 12inch Shaft	800F / 1200F	\$323.00
R2CB-EHX512	Front Mount Rotary Operator, NEMA Type: 3, 4, 4X, 12inch Shaft	800F / 1200F	\$348.00
R2CB-ESHAFT16-100	Shaft for Extended Rotary Handle, 16inch Shaft	100F	\$21.00
R2CB-ESHAFT24-100	Shaft for Extended Rotary Handle, 24inch Shaft	100F	\$31.00
R2CB-ESHAFT16-600	Shaft for Extended Rotary Handle, 16inch Shaft	150F - 600F	\$31.00
R2CB-ESHAFT24-600	Shaft for Extended Rotary Handle, 24inch Shaft	150F - 600F	\$47.00
R2CB-ESHAFT16-1200	Shaft for Extended Rotary Handle, 16inch Shaft	800F / 1200F	\$52.00
R2CB-ESHAFT24-1200	Shaft for Extended Rotary Handle, 24inch Shaft	800F / 1200F	\$78.00

R2CB SERIES CIRCUIT BREAKERS - ACCESSORIES

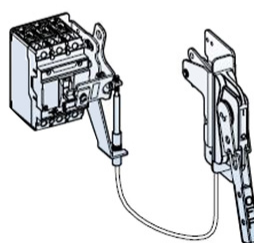
Flange Handle, Operating Mechanism and Cable



R2CB-FH [U2,X2]



R2CB-FH [U3,X3]



R2CB-FH [US,XS]

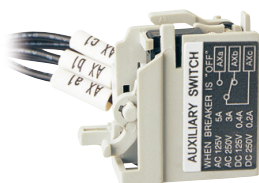


R2CB-FH [2,3,5]

Model Number	Description	Frame	List Price
R2CB-FHUS*	Flange Handle with Cable Operating Mechanism, NEMA Type: 1,12, 3, 3R, 4	100F	\$397.00
R2CB-FHXS*	Flange Handle with Cable Operating Mechanism, NEMA Type: 4, 4X	100F	\$422.00
R2CB-FHU2*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 1,12, 3, 3R, 4	150F / 250F	\$298.00
R2CB-FHX2*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 4, 4X	150F / 250F	\$323.00
R2CB-FHU3*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 1,12, 3, 3R, 4	400F / 600F	\$298.00
R2CB-FHX3*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 4, 4X	400F / 600F	\$323.00
R2CB-FHUL*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 1,12, 3, 3R, 4	800F / 1200F	\$646.00
R2CB-FHXL*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 4, 4X	800F / 1200F	\$685.00
R2CB-FH2-36	Max Flex Cable 36inch	100F - 250F	\$105.00
R2CB-FH2-48	Max Flex Cable 48inch	100F - 250F	\$115.00
R2CB-FH3-36	Max Flex Cable 36inch	400F / 600F	\$125.00
R2CB-FH3-48	Max Flex Cable 48inch	400F / 600F	\$136.00
R2CB-FH3-60	Max Flex Cable 60inch	400F / 600F	\$146.00
R2CB-FH5-60	Max Flex Cable 60inch	800F / 1200F	\$157.00
R2CB-FH5-84	Max Flex Cable 84inch	800F / 1200F	\$183.00
R2CB-FH5-120	Max Flex Cable 128inch	800F / 1200F	\$235.00

* Flange cable sold separately.

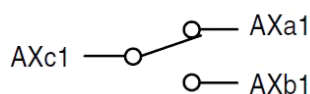
Auxiliary Switch



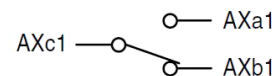
R2CB-AX-UTE100-R



R2CB-AX-UTSXX



On

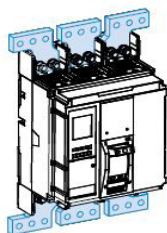


Off/Trip

Model Number	Description	Frame	List Price
R2CB-AX-UTE100-R	Aux 1 Form C (1no/1nc) for Frame 100 CB Left Pole Installation	100F	\$21.00
R2CB-AX-UTS600	Aux 1 Form C (1no/1nc) for Frame 150 - 600 CB	150 - 600F	\$21.00
R2CB-AX-UTS1200	Aux 1 Form C (1no/1nc) for Frame 800/1200 CB Right Pole Installation	800 / 1200F	\$21.00

R2CB SERIES CIRCUIT BREAKERS - ACCESSORIES

Bus Bar Connector



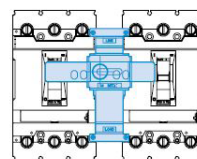
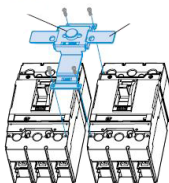
R2CB-SPXX

Model Number	Description	List Price
R2CB-SP03A	Bus Bar Connections Accessory for Frame 100, 3 Piece Set	\$16.00
R2CB-SP2A3A	Bus Bar Connections Accessory for Frame 150, 3 Piece Set	\$18.00
R2CB-SP2B3A	Bus Bar Connections Accessory for Frame 250, 3 Piece Set	\$24.00
R2CB-SP33A	Bus Bar Connections Accessory for Frame 400/600, 3 Piece Set	\$302.00
R2CB-SP53A	Bus Bar Connections Accessory for Frame 800/1200, 3 Piece Set	\$446.00

Mechanical Interlock



R2CB-MITXX



Model Number	Description	List Price
R2CB-MIT03	Mechanical Interlock Frame 100	\$73.00
R2CB-MIT23	Mechanical Interlock Frame 150/250	\$78.00
R2CB-MIT33	Mechanical Interlock Frame 400/600	\$84.00
R2CB-MIT53	Mechanical Interlock Frame 800/1200	\$89.00

Shunt Trip



R2CB-SHT-UTE100-120



R2CB-SHT-UTS600-120



R2CB-SHT-UTS1200-120

Model Number	Description	List Price
R2CB-SHT-UTE100-120	Shunt Trip for Frame 100 CB AC/DC 100-130vac Right Pole Installation	\$42.00
R2CB-SHT-UTS600-120	Shunt Trip for Frame 150 - 600 CB AC/DC 100-130vac Left Pole Installation	\$52.00
R2CB-SHT-UTS1200-120	Shunt Trip for Frame 800/1200 CB AC/DC 100-130vac Right Pole Installation	\$105.00

R2CB SERIES

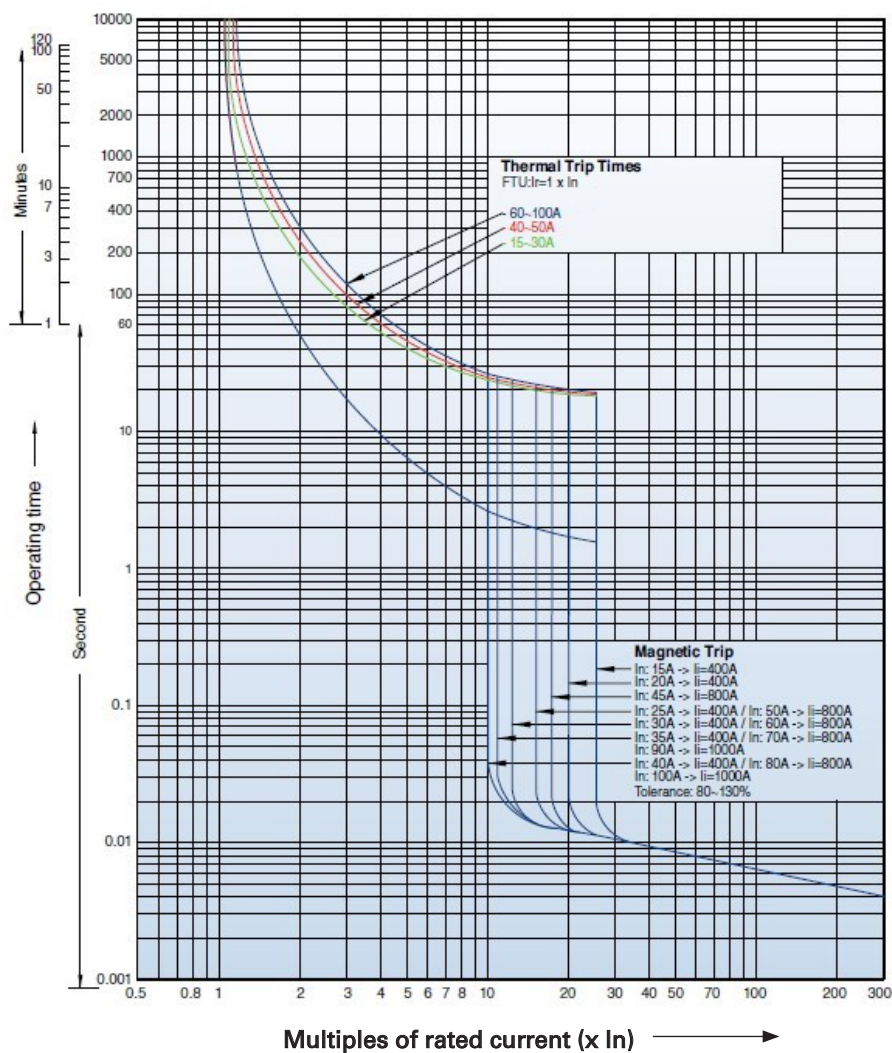
Molded-Case Circuit Breakers

Frame 100 Trip Curves

This curve is to be used for application and coordination purposes only.
All time/current characteristic curve data is based on 40°C ambient cold start.

100F FTU (15~100A)

Rating	FTU	
100F	3P	Mag Trip (80%~130%)
15	•	400A
20	•	
25	•	
30	•	
35	•	
40	•	800A
45	•	
50	•	
60	•	
70	•	
80	•	1000A
90	•	
100	•	



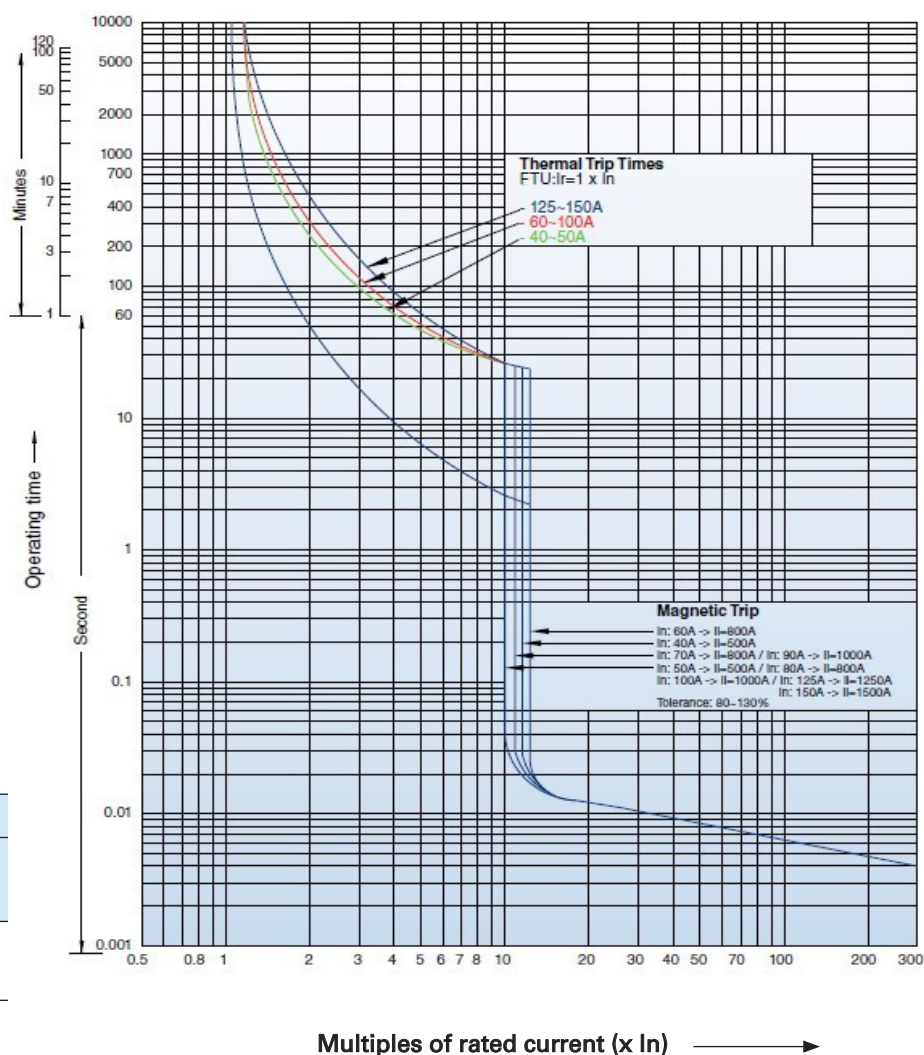
R2CB SERIES

Molded-Case Circuit Breakers

Frame 150 Trip Curves

This curve is to be used for application and coordination purposes only.
All time/current characteristic curve data is based on 40°C ambient cold start.

150F FTU (40~150A)



Rating	FTU	
150F	3P	Mag Trip (80%~130%)
40	•	500A
50	•	
60	•	
70	•	800A
80	•	
90	•	
100	•	1000A
125	•	1250A
150	•	1500A

R2CB SERIES

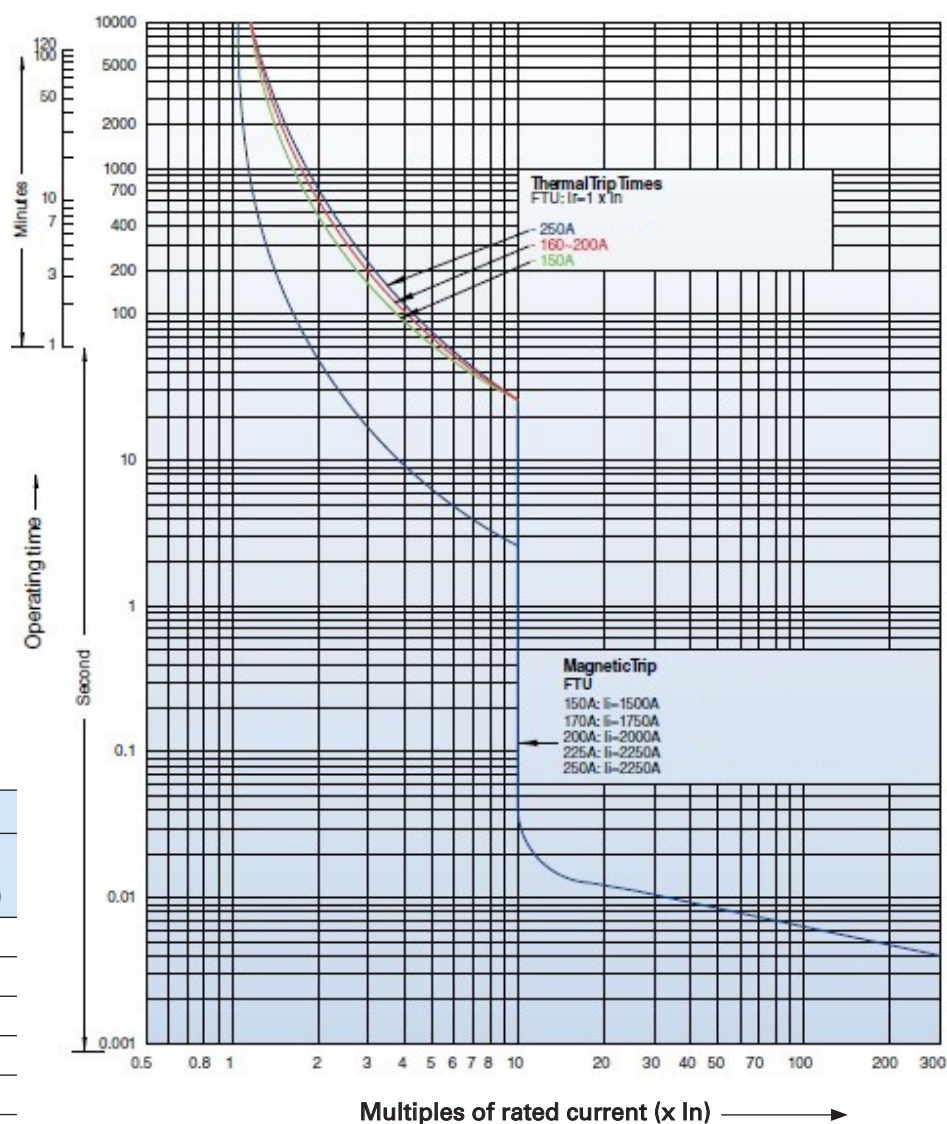
Molded-Case Circuit Breakers

Frame 250 Trip Curves

This curve is to be used for application and coordination purposes only.
All time/current characteristic curve data is based on 40°C ambient cold start.

250F FTU (150~250A)

Rating	FTU	
250F	3P	Mag Trip (80%~130%)
150	•	1500A
175	•	1750A
200	•	2000A
225	•	2250A
250	•	2500A



R2CB SERIES

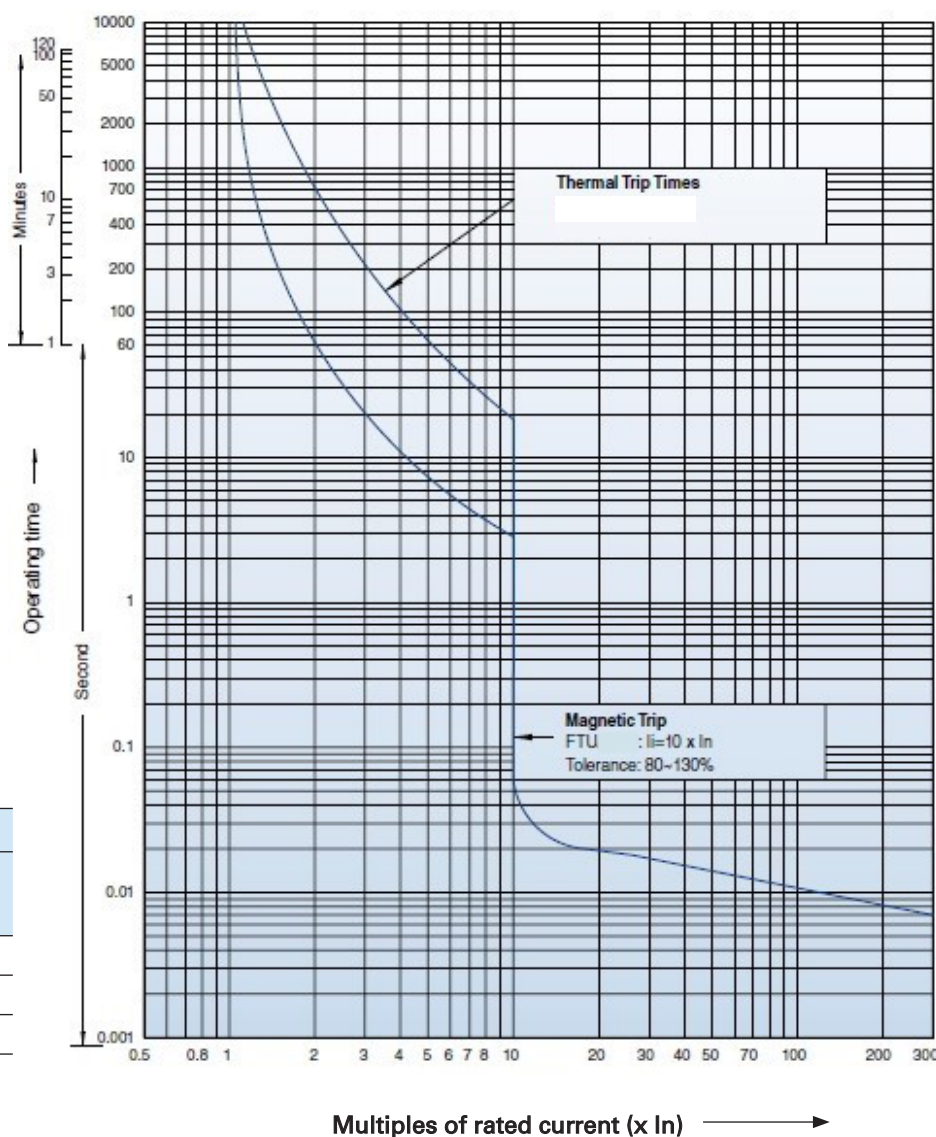
Molded-Case Circuit Breakers

Frame 400 Trip Curves

This curve is to be used for application and coordination purposes only.
All time/current characteristic curve data is based on 40°C ambient cold start.

400F FTU (250~400A)

Rating	FTU	
400F	3P	Mag Trip (80%~130%)
250	•	2500A
300	•	3000A
400	•	4000A



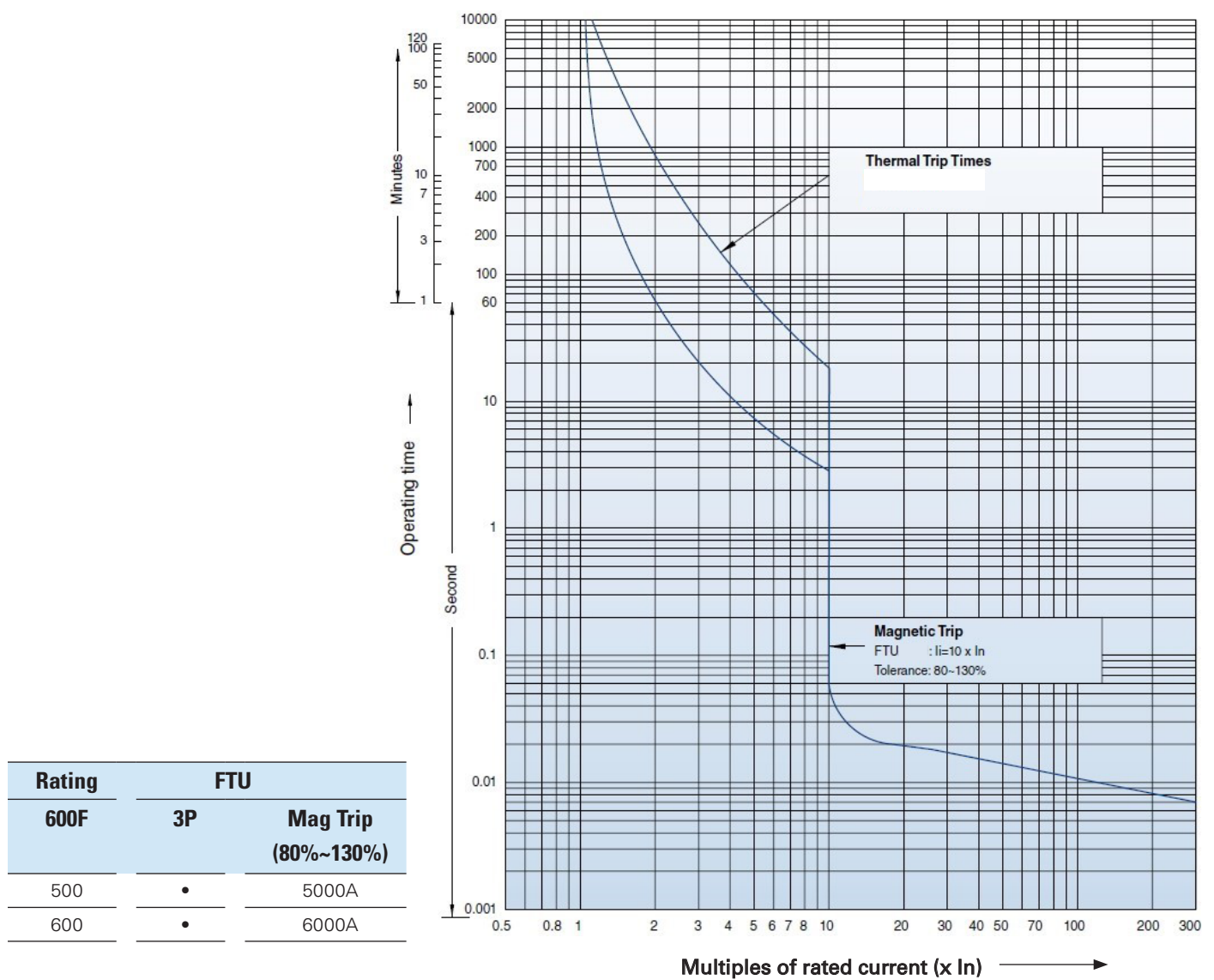
R2CB SERIES

Molded-Case Circuit Breakers

Frame 600 Trip Curves

This curve is to be used for application and coordination purposes only.
All time/current characteristic curve data is based on 40°C ambient cold start.

600F FTU (500~600A)



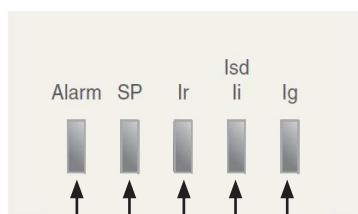
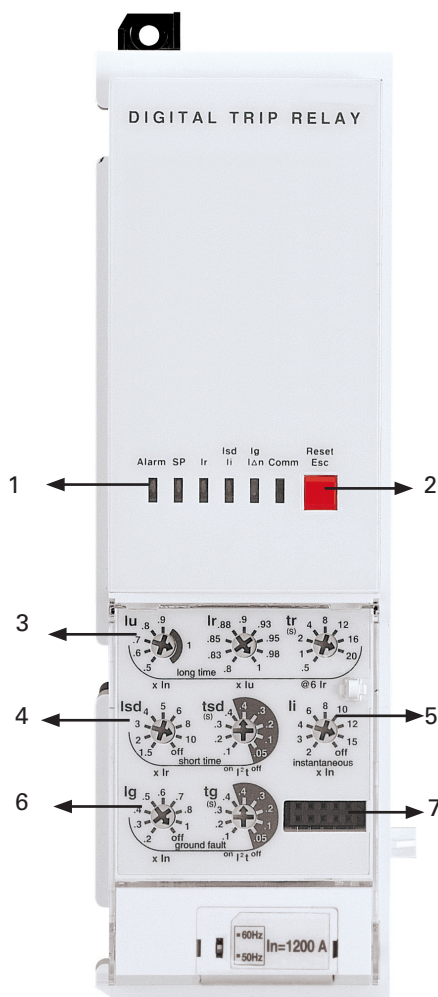
TRIP UNITS FOR 800F AND 1200F

The 800F and 1200F frame circuit breakers include factory-installed internal trip units. Each trip unit has various protective functions as follows.

N type: Normal type

- Optimized protection function
- OCR, OCGR function according to IEC60947-2
- Overload protection
 - Long-time delay
 - Thermal
- Short-circuit protection
 - Short-time delay / instantaneous
 - I^2t On/Off optional (for short-time delay)
- Ground fault protection
 - I^2t On/Off optional
- Self-Power

1 **LED:** Indication of trip info, and overload state



- **Ig:** LED indicating ground-fault
- **Isd / li:** LED indicating short-time or instantaneous tripping
- **Ir:** LED indicating long-time delay
- **SP:** Self-protection and battery test LED
- **Alarm:** LED indicating an overload (Turn on above 90%, Blink above 105%)

- 2 **Reset Key:** Fault reset or battery check
- 3 **Iu, Ir:** Long-time current setting, **tr:** Long-time tripping delay setting
- 4 **Isd:** Short-time current setting, **tsd:** Short-time tripping delay setting
- 5 **li:** Instantaneous current setting
- 6 **Ig:** Ground fault setting, **tg:** Ground fault tripping delay setting
- 7 **Test Terminal:** OCR test terminal (Connected with OCR tester)

R2CB SERIES

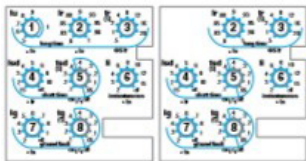
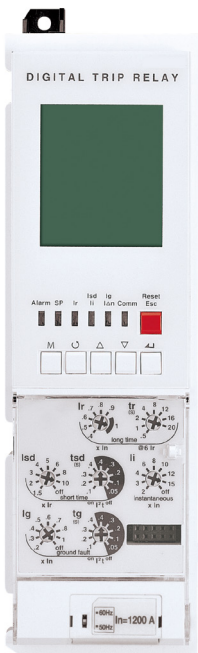
Molded-Case Circuit Breakers

Frame 800, 1200 Trip Curves

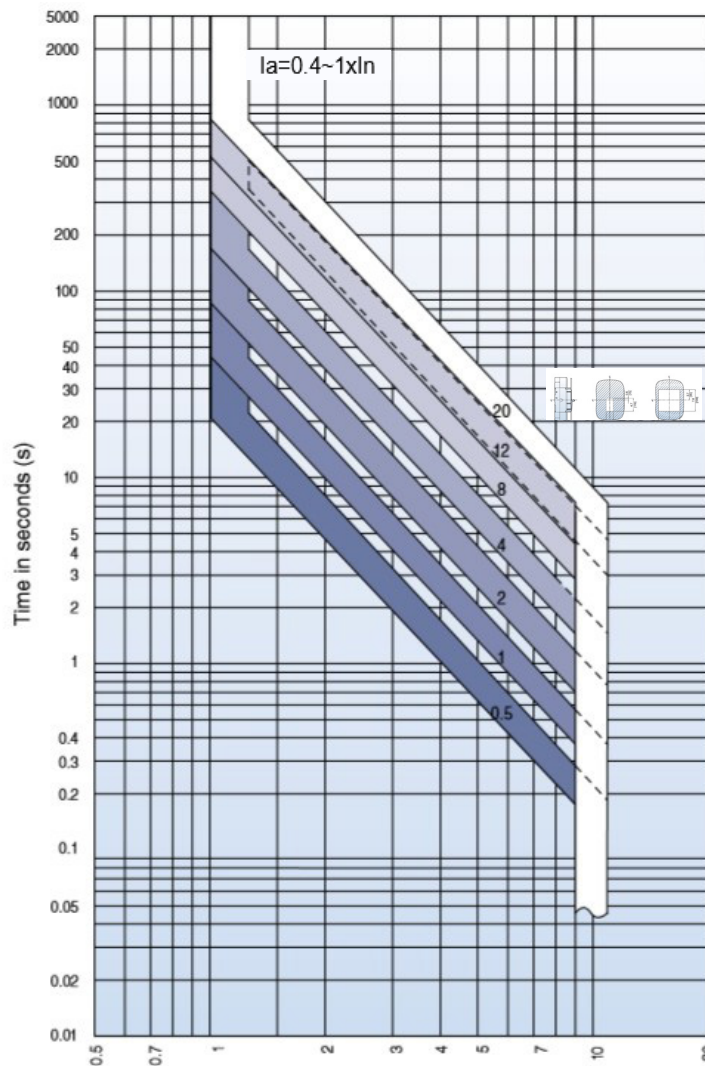
This curve is to be used for application and coordination purposes only.

Long-Time Delay (400~1200A)

Long-time pickup $0.4 \sim 1 \times I_a$
and delay $0.5 \sim 20s$



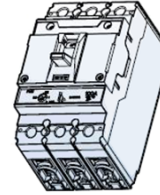
①, ②, ③ – Long-time setting



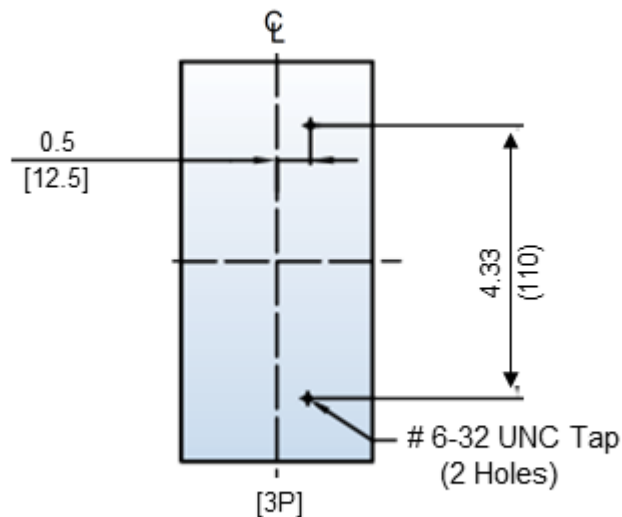
Multiples of current setting ($\times I_a$)
(I_a = Long time setting $\times I_n$)



100F Frame 3P Circuit Breaker [Lug Type]

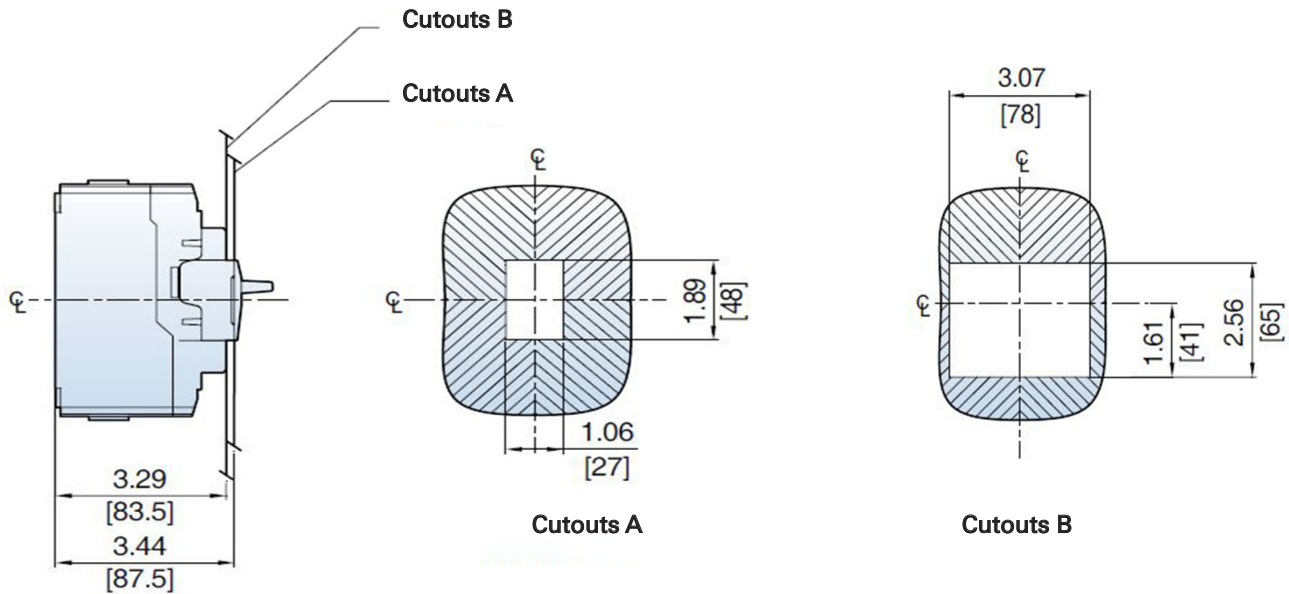


100F Frame Circuit Breaker Mounting

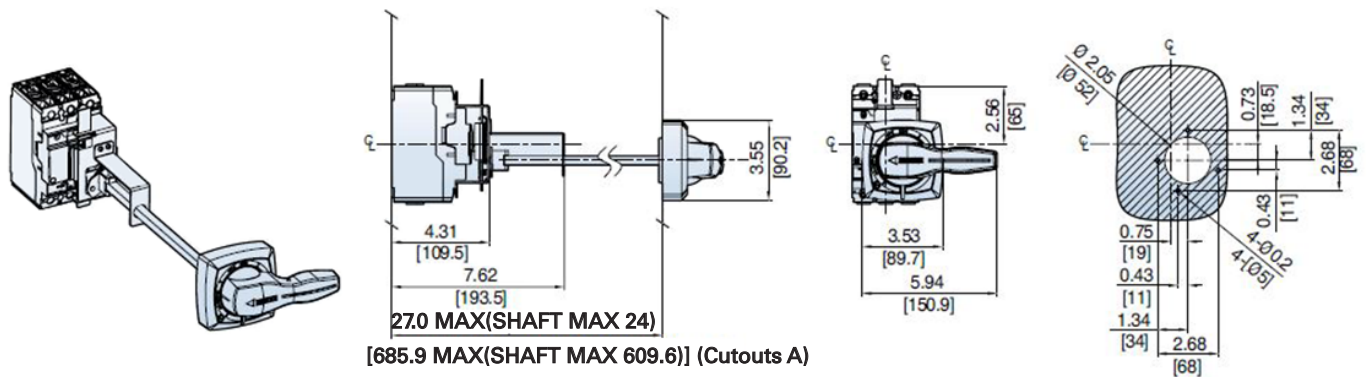


DIMENSIONS - 100F FRAME CIRCUIT BREAKERS

100F Frame Circuit Breaker Door Cutouts



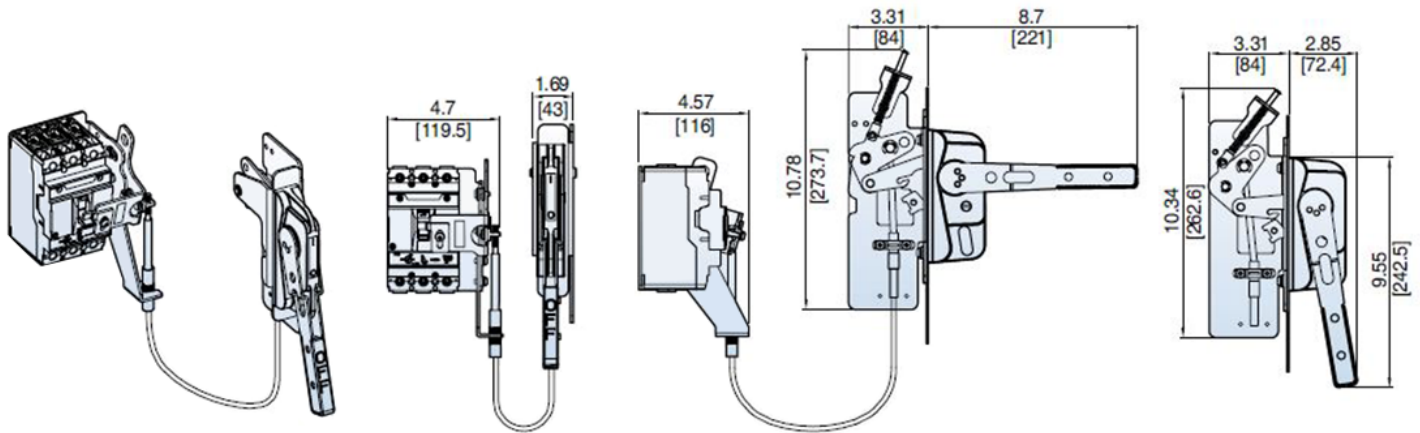
100F NEMA Door-Mounted Rotary Operating Handle R2CB-EH [V0C12, X0C12]





DIMENSIONS - 100F FRAME CIRCUIT BREAKERS

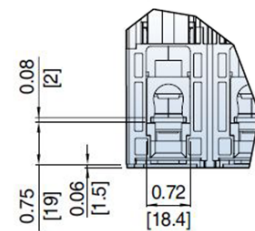
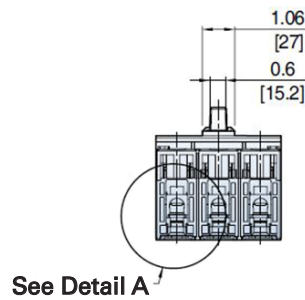
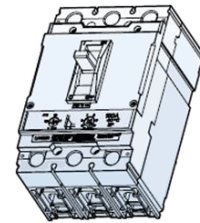
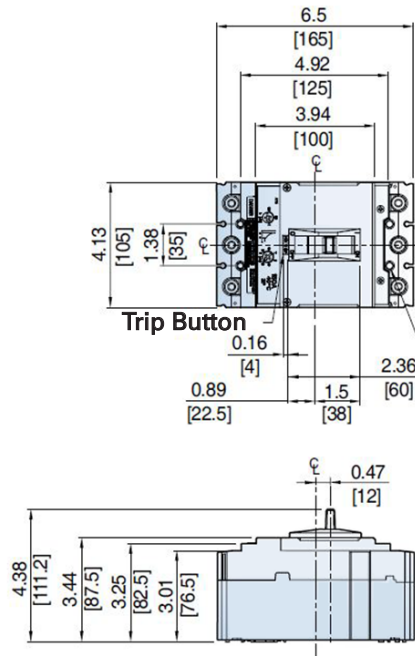
100F Flange-Mounted Cable Operating Handle R2CB-FH [US, XS]



Note: Flange cable sold separately.

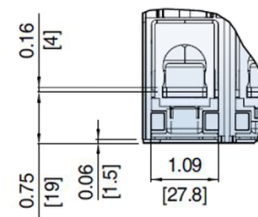
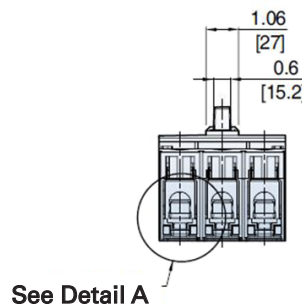
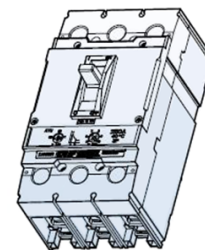
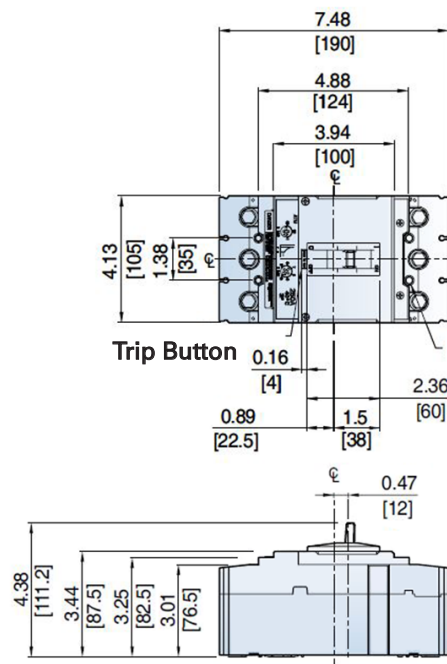
DIMENSIONS - 150F / 250F FRAME CIRCUIT BREAKERS

150F Frame 3P Circuit Breaker [Lug Type]



Detail A

250F Frame 3P Circuit Breaker [Lug Type]

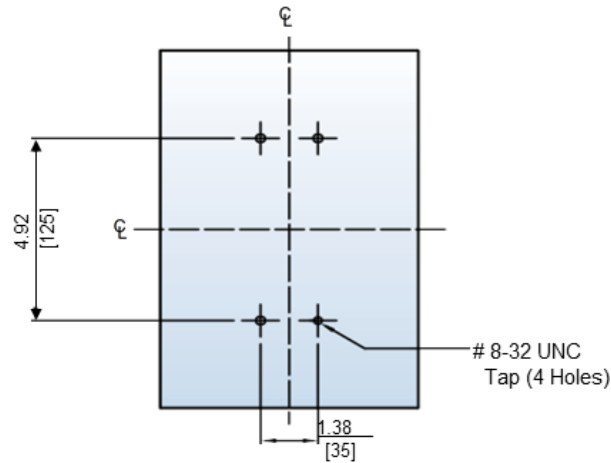


Detail A

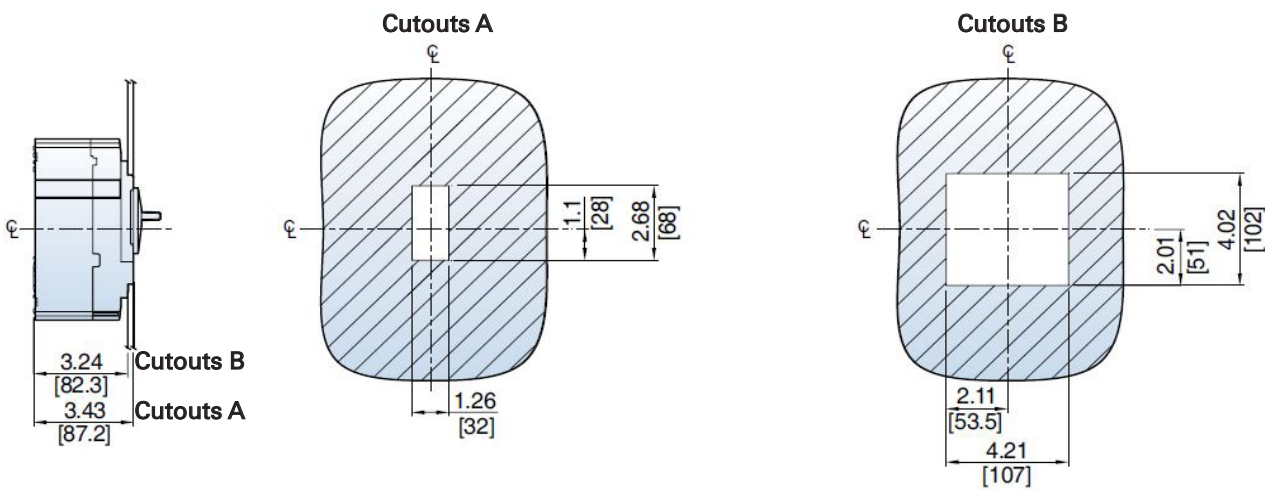


DIMENSIONS - 150F / 250F FRAME CIRCUIT BREAKERS

150F / 250F Circuit Breaker and Accessory Mounting

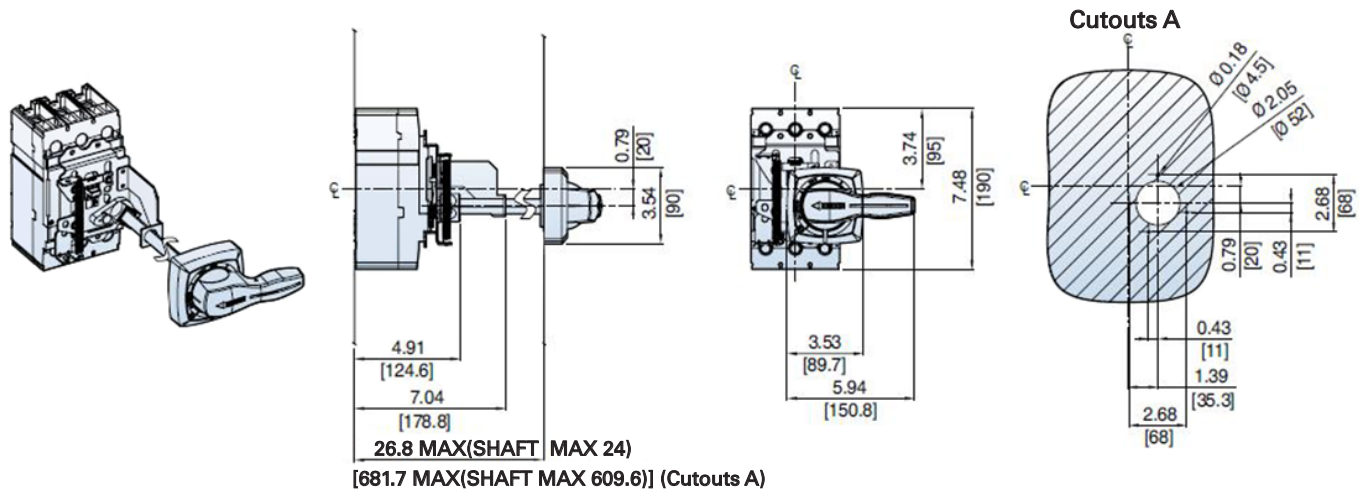


150F / 250F Circuit Breaker Door Cutouts

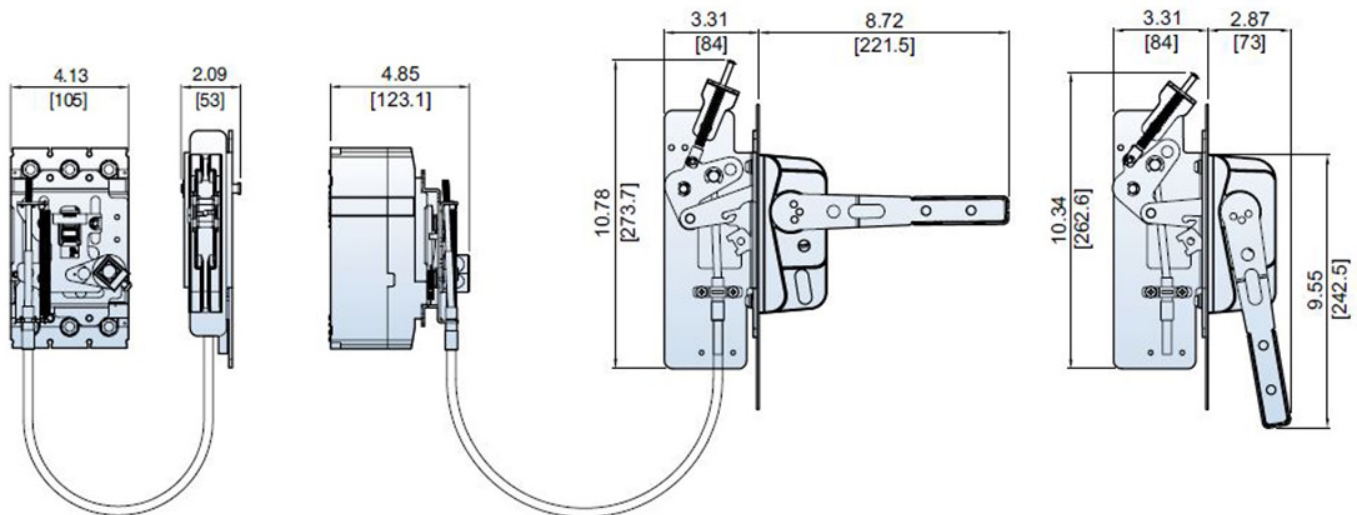


DIMENSIONS - 150F / 250F FRAME CIRCUIT BREAKERS

150F / 250F NEMA Door-Mounted Rotary Operating Handle R2CB-EH [V212, X212]



150F / 250F Flange-Mounted Cable Operating Handle R2CB-FH [U2, X2]

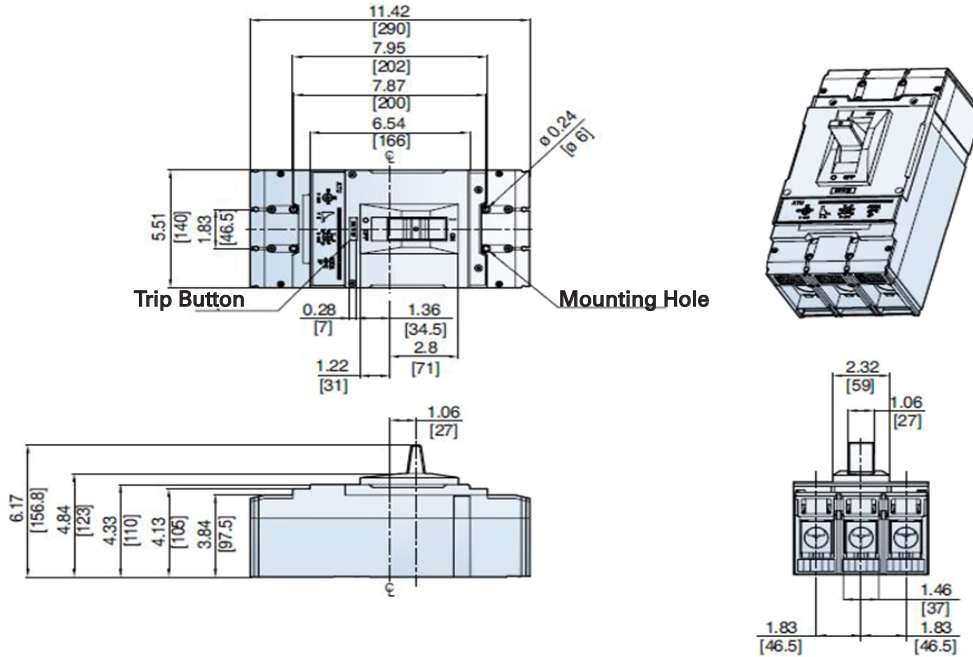


Note: Flange cable sold separately.

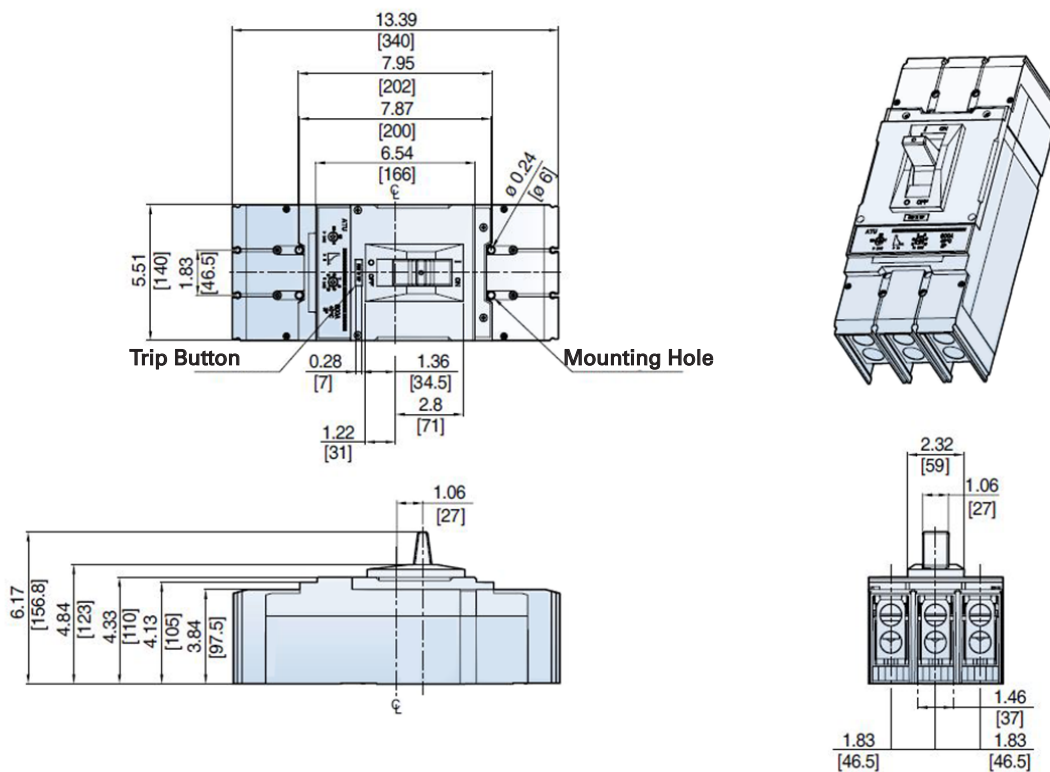


DIMENSIONS - 400F / 600F FRAME CIRCUIT BREAKERS

400F Frame 3P Circuit Breaker [Lug Type]

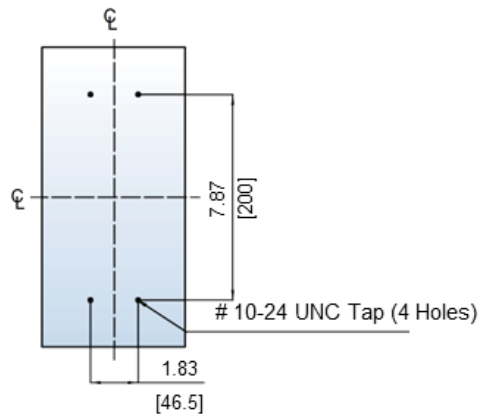


600F Frame 3P Circuit Breaker [Lug Type]

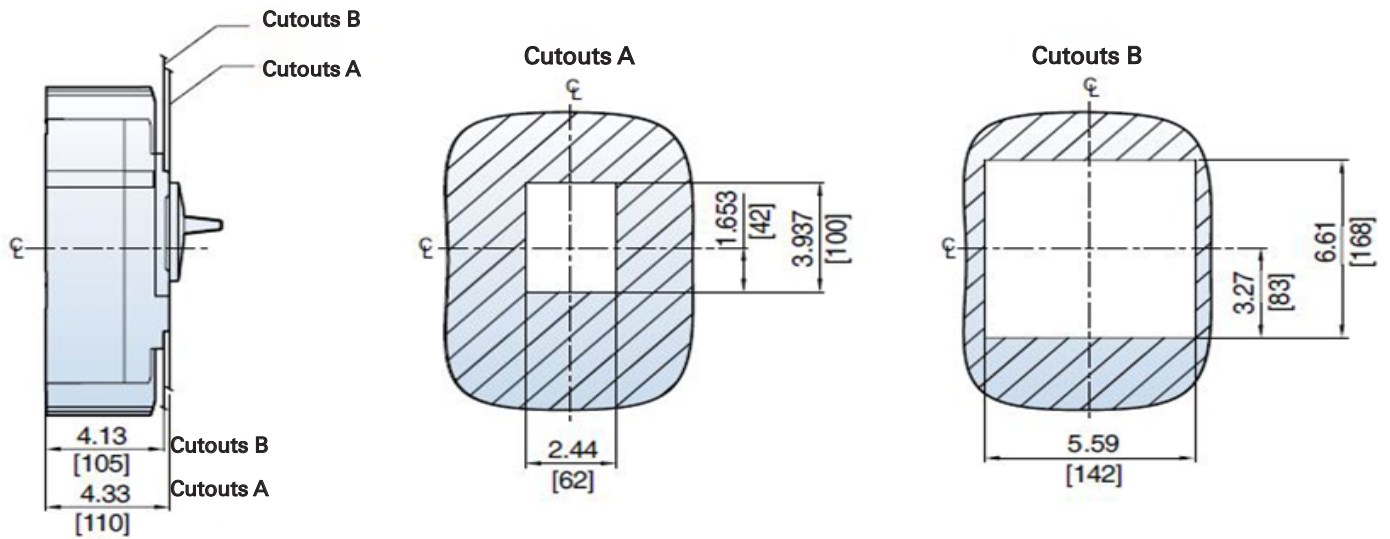


DIMENSIONS - 400F / 600F FRAME CIRCUIT BREAKERS

400F / 600F Circuit Breaker Mounting



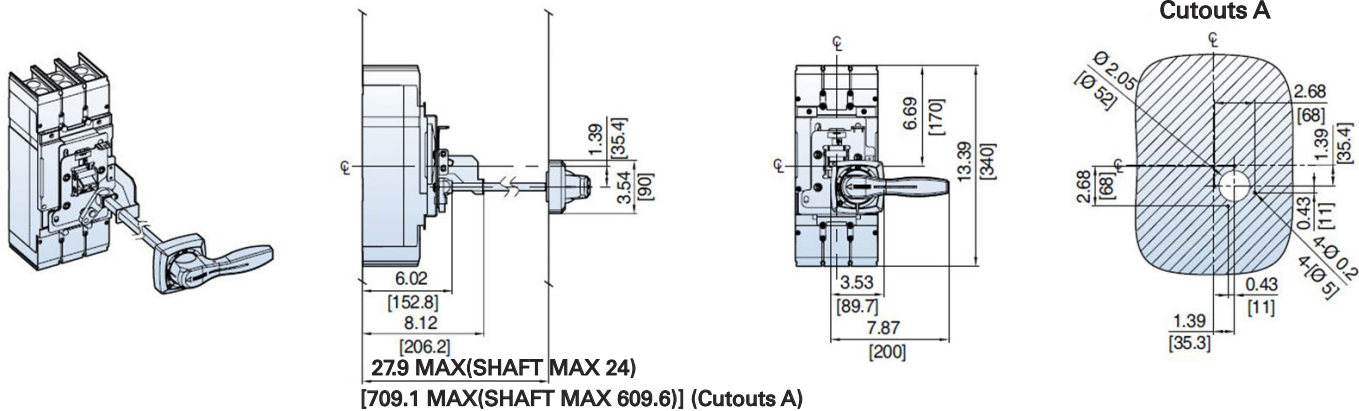
400F / 600F Circuit Breaker Door Cutouts



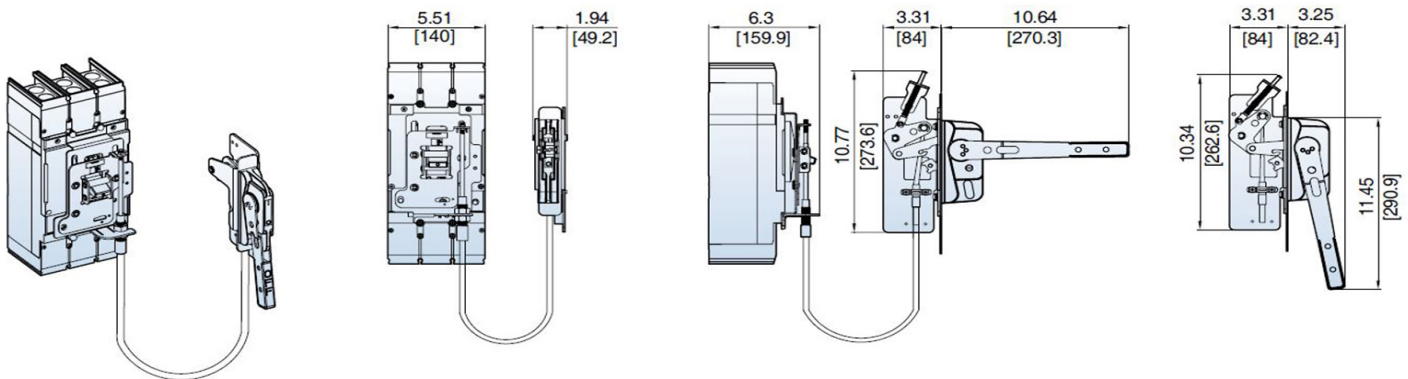


DIMENSIONS - 400F / 600F FRAME CIRCUIT BREAKERS

400F / 600F NEMA Door-Mounted Rotary Operating Handle R2CB-EH [V312, X312]



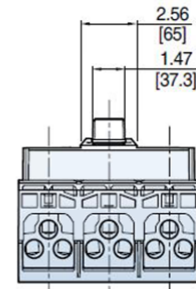
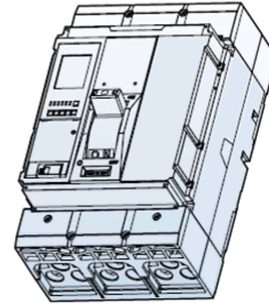
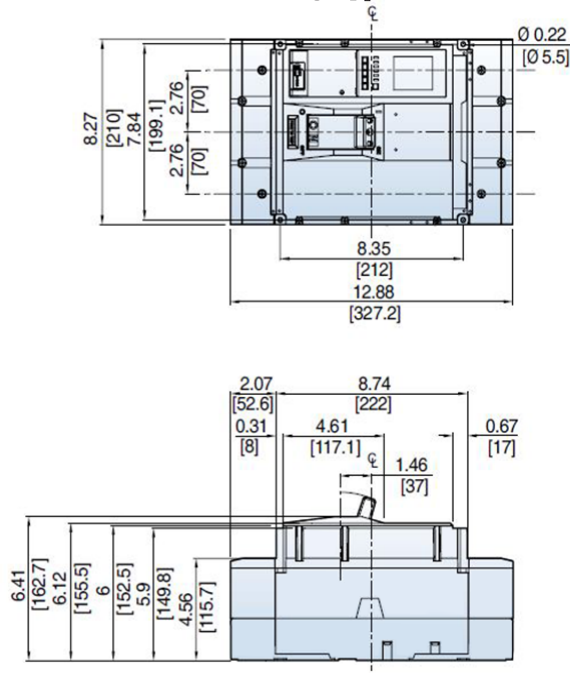
400F / 600F Flange-Mounted Cable Operating Handle R2CB-FH [U3, X3]



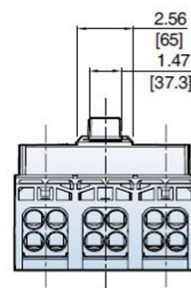
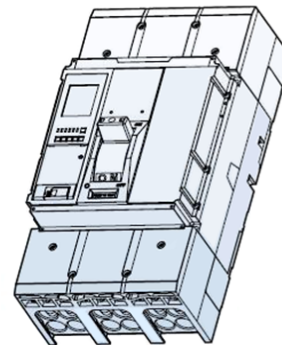
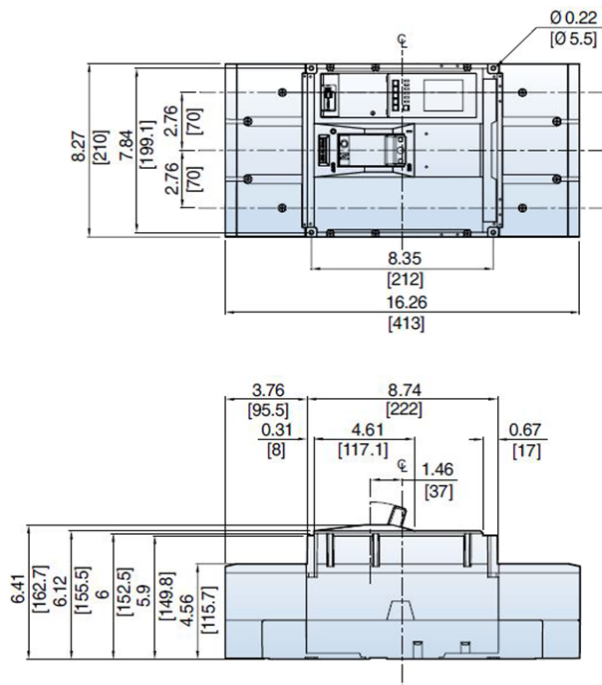
Note: Flange cable sold separately.

DIMENSIONS - 800F / 1200F FRAME CIRCUIT BREAKERS

800F Frame 3P Circuit Breaker [Lug Type]



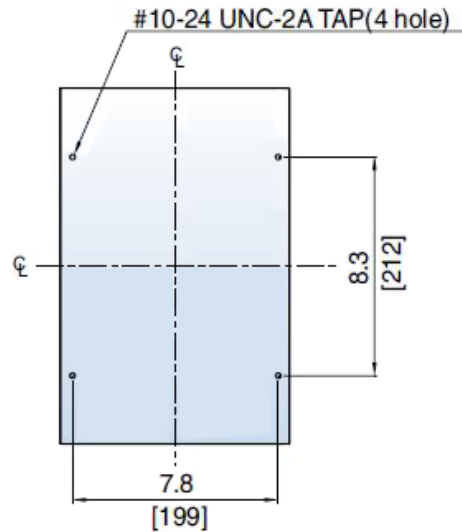
1200F Frame 3P Circuit Breaker [Lug Type]



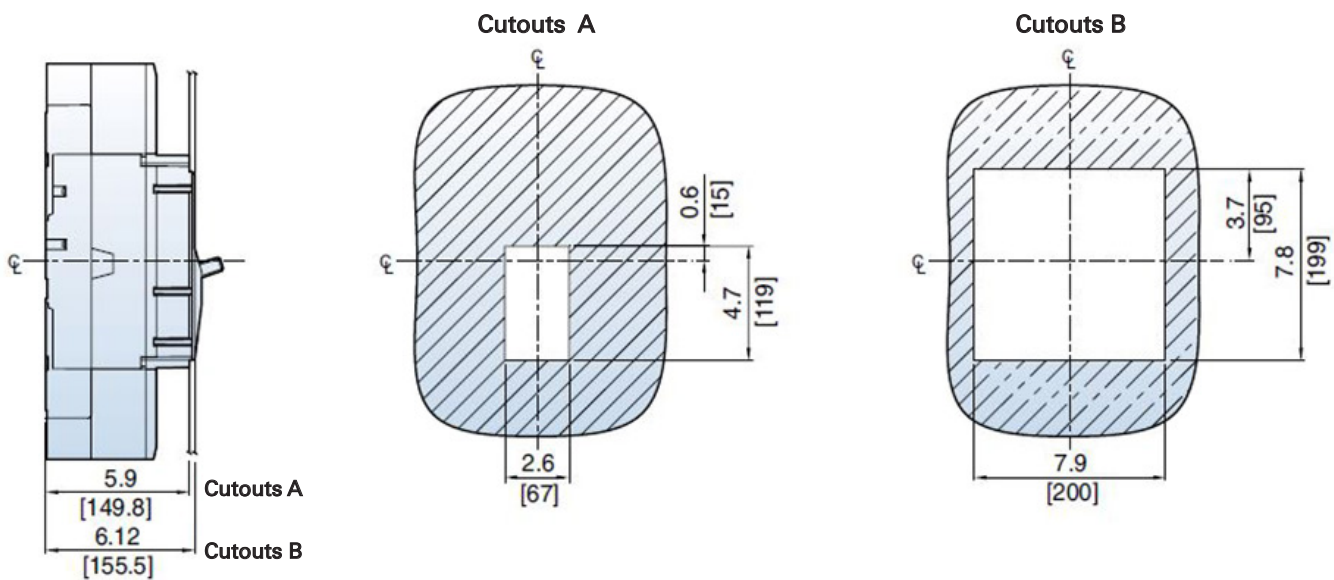


DIMENSIONS - 800F / 1200F FRAME CIRCUIT BREAKERS

800F / 1200F Circuit Breaker Mounting

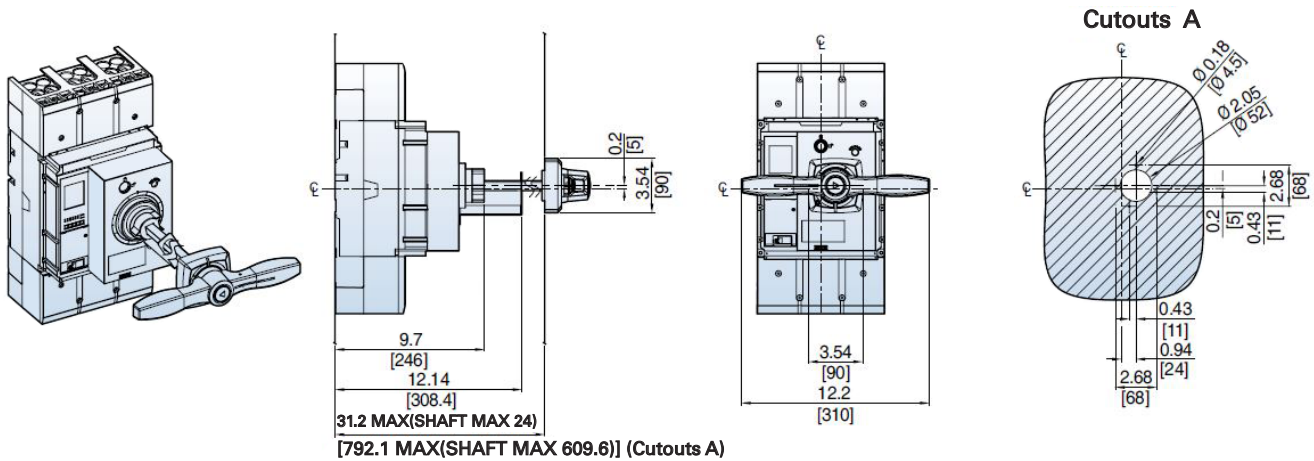


800F / 1200F Circuit Breaker Door Cutouts



DIMENSIONS - 800F / 1200F FRAME CIRCUIT BREAKERS

800F / 1200F NEMA Door-Mounted Rotary Operating Handle R2CB-EH [V512, X512]



24/7 Technical Support

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