



BENSHAW
Applied Motor Controls
AN AMCONEX GROUP COMPANY

Product Catalog



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Molded case Circuit Breakers

Rapid | Rugged | Global

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Introduction

Benshaw 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 26)



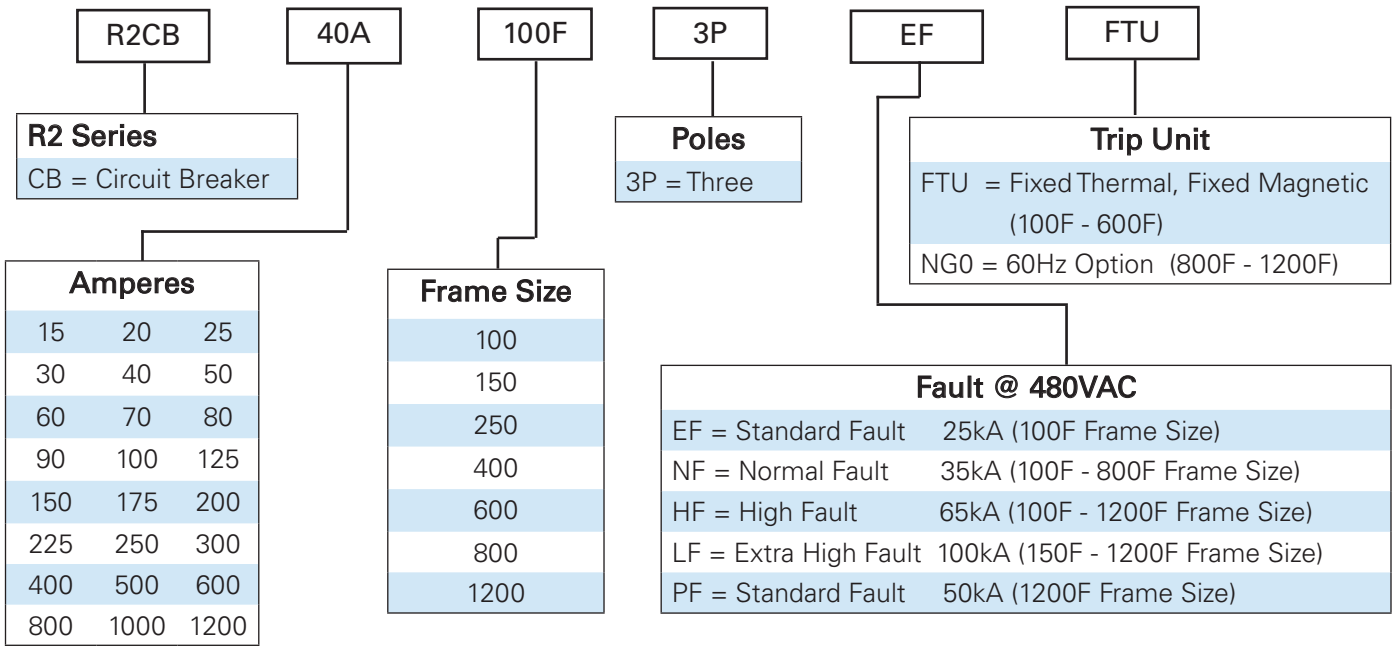
R2CB SERIES



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

100F	E, N	600F	N, H, L
150F	N, H, L	800F	H, L
250F	N, H, L	1200F	H, L
400F	N, H, L		

R2CB PART NUMBER ASSEMBLER



SERIES OVERVIEW

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



FRAME

100F

150F

250F

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,	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	

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		

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

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)	120/240V
AC(50/60HZ)	240V ac
UL, CSA	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, Ulmp	
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, (kA rms) AC	220/240V
50/60Hz, Icu	380/415V
	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	800F	1200F
Unit Mounted (allows for direct connection to busbar)	std	std
Mechanical Line and Load Lugs	std	std
Busbar Connectors	opt	opt
Terminal Shields	std	std
Shunt Trip	opt	opt
Auxiliary Switch	opt	opt
Flange Cable Handle and Mechanism	opt	opt
NEMA-Door-Mounted Rotary Operating Handle and Mechanism	opt	opt
Mechanical Interlocking Device	opt	opt
Weight Lbs. (kg)	31.35(14.22)	48.28 (18.27)
Dimensions Inches (mm)	W H D	W H D
	8.27(210) 12.88(327.2) 6(152.5)	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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-15A-100F3P-EF-FTU	15	400A	50	25	N/A
R2CB-20A-100F3P-EF-FTU	20	400A	50	25	N/A
R2CB-25A-100F3P-EF-FTU	25	400A	50	25	N/A
R2CB-30A-100F3P-EF-FTU	30	400A	50	25	N/A
R2CB-40A-100F3P-EF-FTU	40	400A	50	25	N/A
R2CB-50A-100F3P-EF-FTU	50	800A	50	25	N/A
R2CB-60A-100F3P-EF-FTU	60	800A	50	25	N/A
R2CB-70A-100F3P-EF-FTU	70	800A	50	25	N/A
R2CB-80A-100F3P-EF-FTU	80	800A	50	25	N/A
R2CB-90A-100F3P-EF-FTU	90	1000A	50	25	N/A
R2CB-100A-100F3P-EF-FTU	100	1000A	50	25	N/A

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-15A-100F3P-NF-FTU	15	400A	65	35	N/A
R2CB-20A-100F3P-NF-FTU	20	400A	65	35	N/A
R2CB-25A-100F3P-NF-FTU	25	400A	65	35	N/A
R2CB-30A-100F3P-NF-FTU	30	400A	65	35	N/A
R2CB-40A-100F3P-NF-FTU	40	400A	65	35	N/A
R2CB-50A-100F3P-NF-FTU	50	800A	65	35	N/A
R2CB-60A-100F3P-NF-FTU	60	800A	65	35	N/A
R2CB-70A-100F3P-NF-FTU	70	800A	65	35	N/A
R2CB-80A-100F3P-NF-FTU	80	800A	65	35	N/A
R2CB-90A-100F3P-NF-FTU	90	1000A	65	35	N/A
R2CB-100A-100F3P-NF-FTU	100	1000A	65	35	N/A

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-15A-100F3P-HF-FTU	15	400A	100	65	N/A
R2CB-20A-100F3P-HF-FTU	20	400A	100	65	N/A
R2CB-25A-100F3P-HF-FTU	25	400A	100	65	N/A
R2CB-30A-100F3P-HF-FTU	30	400A	100	65	N/A

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-40A-150F-3P-NF-FTU	40	500A	65	35	18
R2CB-50A-150F-3P-NF-FTU	50	500A	65	35	18
R2CB-60A-150F-3P-NF-FTU	60	800A	65	35	18
R2CB-70A-150F-3P-NF-FTU	70	800A	65	35	18
R2CB-80A-150F-3P-NF-FTU	80	800A	65	35	18
R2CB-90A-150F-3P-NF-FTU	90	1000A	65	35	18
R2CB-100A-150F-3P-NF-FTU	100	1000A	65	35	18
R2CB-125A-150F-3P-NF-FTU	125	1250A	65	35	18
R2CB-150A-150F-3P-NF-FTU	150	1500A	65	35	18

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-40A-150F-3P-HF-FTU	40	500A	100	65	35
R2CB-50A-150F-3P-HF-FTU	50	500A	100	65	35
R2CB-60A-150F-3P-HF-FTU	60	800A	100	65	35
R2CB-70A-150F-3P-HF-FTU	70	800A	100	65	35
R2CB-80A-150F-3P-HF-FTU	80	800A	100	65	35
R2CB-90A-150F-3P-HF-FTU	90	1000A	100	65	35
R2CB-100A-150F-3P-HF-FTU	100	1000A	100	65	35
R2CB-125A-150F-3P-HF-FTU	125	1250A	100	65	35
R2CB-150A-150F-3P-HF-FTU	150	1500A	100	65	35

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-40A-150F-3P-LF-FTU	40	500A	150	100	50
R2CB-50A-150F-3P-LF-FTU	50	500A	150	100	50
R2CB-60A-150F-3P-LF-FTU	60	800A	150	100	50
R2CB-70A-150F-3P-LF-FTU	70	800A	150	100	50
R2CB-80A-150F-3P-LF-FTU	80	800A	150	100	50
R2CB-90A-150F-3P-LF-FTU	90	1000A	150	100	50
R2CB-100A-150F-3P-LF-FTU	100	1000A	150	100	50
R2CB-125A-150F-3P-LF-FTU	125	1250A	150	100	50
R2CB-150A-150F-3P-LF-FTU	150	1500A	150	100	50

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-150A-250F-3P-NF-FTU	150	1500A	65	35	18
R2CB-175A-250F-3P-NF-FTU	175	1750A	65	35	18
R2CB-200A-250F-3P-NF-FTU	200	2000A	65	35	18
R2CB-225A-250F-3P-NF-FTU	225	2250A	65	35	18
R2CB-250A-250F-3P-NF-FTU	250	2500A	65	35	18

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-150A-250F-3P-HF-FTU	150	1500A	100	65	35
R2CB-175A-250F-3P-HF-FTU	175	1750A	100	65	35
R2CB-200A-250F-3P-HF-FTU	200	2000A	100	65	35
R2CB-225A-250F-3P-HF-FTU	225	2250A	100	65	35
R2CB-250A-250F-3P-HF-FTU	250	2500A	100	65	35

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-150A-250F-3P-LF-FTU	150	1500A	150	100	50
R2CB-175A-250F-3P-LF-FTU	175	1750A	150	100	50
R2CB-200A-250F-3P-LF-FTU	200	2000A	150	100	50
R2CB-225A-250F-3P-LF-FTU	225	2250A	150	100	50
R2CB-250A-250F-3P-LF-FTU	250	2500A	150	100	50

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-250A-400F-3P-NF-FTU	250	2500A	65	35	18
R2CB-300A-400F-3P-NF-FTU	300	3000A	65	35	18
R2CB-400A-400F-3P-NF-FTU	400	4000A	65	35	18

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-250A-400F-3P-HF-FTU	250	2500A	100	65	35
R2CB-300A-400F-3P-HF-FTU	300	3000A	100	65	35
R2CB-400A-400F-3P-HF-FTU	400	4000A	100	65	35

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-250A-400F-3P-LF-FTU	250	2500A	150	100	50
R2CB-300A-400F-3P-LF-FTU	300	3000A	150	100	50
R2CB-400A-400F-3P-LF-FTU	400	4000A	150	100	50

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-500A-600F-3P-NF-FTU	500	5000A	65	35	18
R2CB-600A-600F-3P-NF-FTU	600	6000A	65	35	18

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-500A-600F-3P-HF-FTU	500	5000A	100	65	35
R2CB-600A-600F-3P-HF-FTU	600	6000A	100	65	35

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)		
	Amps	Amps	240VAC	480VAC	600VAC
R2CB-500A-600F-3P-LF-FTU	500	5000A	150	100	50
R2CB-600A-600F-3P-LF-FTU	600	6000A	150	100	50

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)		
	Amps		240VAC	480VAC	600VAC
R2CB-600A-800F-3P-NF-NG0	600	Adjustable - (2 - 15) x Rated Current	65	35	18
R2CB-800A-800F-3P-NF-NG0	800	Adjustable - (2 - 15) x Rated Current	65	35	18

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)		
	Amps		240VAC	480VAC	600VAC
R2CB-600A-800F-3P-HF-NG0	600	Adjustable - (2 - 15) x Rated Current	100	65	35
R2CB-800A-800F-3P-HF-NG0	800	Adjustable - (2 - 15) x Rated Current	100	65	35

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)		
	Amps		240VAC	480VAC	600VAC
R2CB-600A-800F-3P-LF-NG0	600	Adjustable - (2 - 15) x Rated Current	150	100	50
R2CB-800A-800F-3P-LF-NG0	800	Adjustable - (2 - 15) x Rated Current	150	100	50

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)		
	Amps		240VAC	480VAC	600VAC
R2CB-1000A-1200F-3P-PF-NG0	1000	Adjustable - (2 - 15) x Rated Current	65	50	50
R2CB-1200A-1200F-3P-PF-NG0	1200	Adjustable - (2 - 15) x Rated Current	65	50	50

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)		
	Amps		240VAC	480VAC	600VAC
R2CB-1000A-1200F-3P-HF-NG0	1000	Adjustable - (2 - 15) x Rated Current	100	65	25
R2CB-1200A-1200F-3P-HF-NG0	1200	Adjustable - (2 - 15) x Rated Current	100	65	25

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

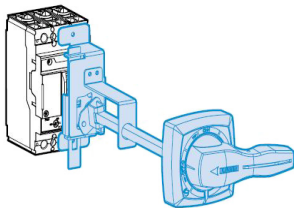
1200F Frame Extra High Fault Rating

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

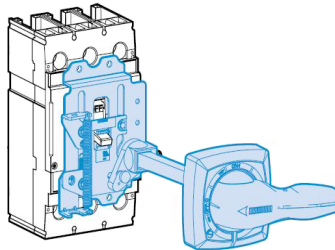
Note: Line and load lugs and mounting hardware included as standard.
NG0 is for a 60Hz supply only.
Consult factory for 50Hz applications.

R2CB SERIES CIRCUIT BREAKERS - ACCESSORIES

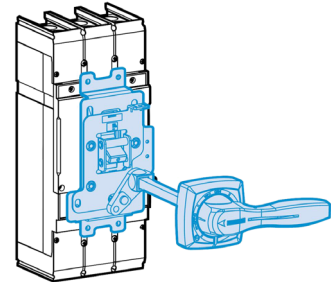
Rotary Operator and Shaft Extension



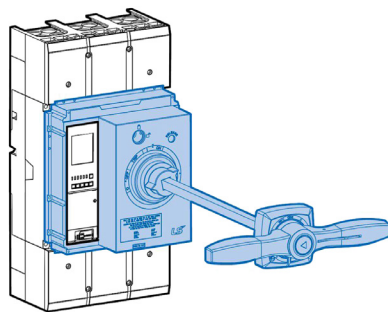
R2CB-EH [V0C12, X0C12]



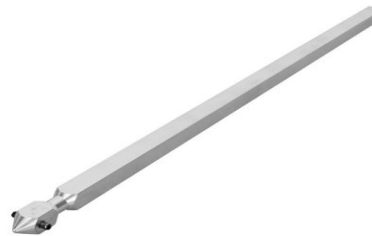
R2CB-EH [V212, X212]



R2CB-EH [V312, X312]



R2CB-EH [V512, X512]

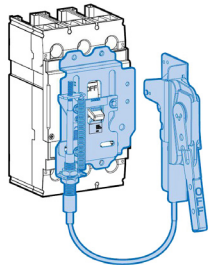


R2CB-ESHAFTXX

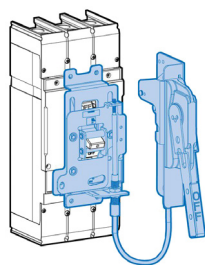
Model Number	Description	Frame
R2CB-EHU0C12	Front Mount Rotary Operator, NEMA Type: 1, 12, 12inch Shaft	100F
R2CB-EHV0C12	Front Mount Rotary Operator, NEMA Type: 3, 3R, 4, 12inch Shaft	100F
R2CB-EHX0C12	Front Mount Rotary Operator, NEMA Type: 3, 4, 4X, 12inch Shaft	100F
R2CB-EHU212	Front Mount Rotary Operator, NEMA Type: 1, 12, 12inch Shaft	150F / 250F
R2CB-EHV212	Front Mount Rotary Operator, NEMA Type: 3, 3R, 4, 12inch Shaft	150F / 250F
R2CB-EHX212	Front Mount Rotary Operator, NEMA Type: 3, 4, 4X, 12inch Shaft	150F / 250F
R2CB-EHU312	Front Mount Rotary Operator, NEMA Type: 1, 12, 12inch Shaft	400F / 600F
R2CB-EHV312	Front Mount Rotary Operator, NEMA Type: 3, 3R, 4, 12inch Shaft	400F / 600F
R2CB-EHX312	Front Mount Rotary Operator, NEMA Type: 3, 4, 4X, 12inch Shaft	400F / 600F
R2CB-EHU512	Front Mount Rotary Operator, NEMA Type: 1, 12, 12inch Shaft	800F / 1200F
R2CB-EHV512	Front Mount Rotary Operator, NEMA Type: 3, 3R, 4, 12inch Shaft	800F / 1200F
R2CB-EHX512	Front Mount Rotary Operator, NEMA Type: 3, 4, 4X, 12inch Shaft	800F / 1200F
R2CB-ESHAFT16-100	Shaft for Extended Rotary Handle, 16inch Shaft	100F
R2CB-ESHAFT24-100	Shaft for Extended Rotary Handle, 24inch Shaft	100F
R2CB-ESHAFT16-600	Shaft for Extended Rotary Handle, 16inch Shaft	150F - 600F
R2CB-ESHAFT24-600	Shaft for Extended Rotary Handle, 24inch Shaft	150F - 600F
R2CB-ESHAFT16-1200	Shaft for Extended Rotary Handle, 16inch Shaft	800F / 1200F
R2CB-ESHAFT24-1200	Shaft for Extended Rotary Handle, 24inch Shaft	800F / 1200F

R2CB SERIES CIRCUIT BREAKERS - ACCESSORIES

Flange Handle, Operating Mechanism and Cable



R2CB-FH [U2,X2]



R2CB-FH [U3,X3]



R2CB-FH [US,XS]

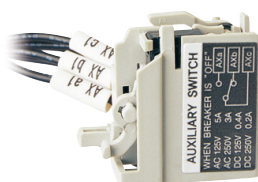


R2CB-FH [2,3,5]

Model Number	Description	Frame
R2CB-FHUS*	Flange Handle with Cable Operating Mechanism, NEMA Type: 1, 12, 3, 3R, 4	100F
R2CB-FHXS*	Flange Handle with Cable Operating Mechanism, NEMA Type: 4, 4X	100F
R2CB-FHU2*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 1, 12, 3, 3R, 4	150F / 250F
R2CB-FHX2*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 4, 4X	150F / 250F
R2CB-FHU3*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 1, 12, 3, 3R, 4	400F / 600F
R2CB-FHX3*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 4, 4X	400F / 600F
R2CB-FHUL*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 1, 12, 3, 3R, 4	800F / 1200F
R2CB-FHXL*	Flange Handle with Sliding Operating Mechanism, NEMA Type: 4, 4X	800F / 1200F
R2CB-FH2-36	Max Flex Cable 36inch	100F - 250F
R2CB-FH2-48	Max Flex Cable 48inch	100F - 250F
R2CB-FH3-36	Max Flex Cable 36inch	400F / 600F
R2CB-FH3-48	Max Flex Cable 48inch	400F / 600F
R2CB-FH3-60	Max Flex Cable 60inch	400F / 600F
R2CB-FH5-60	Max Flex Cable 60inch	800F / 1200F
R2CB-FH5-84	Max Flex Cable 84inch	800F / 1200F
R2CB-FH5-120	Max Flex Cable 128inch	800F / 1200F

* Flange cable sold separately.

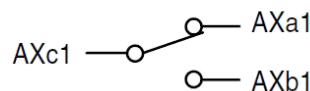
Auxiliary Switch



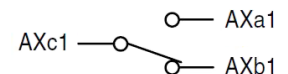
R2CB-AX-UTE100-R



R2CB-AX-UTSXX



On

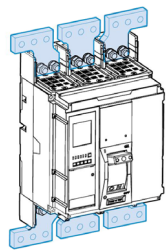


Off/Trip

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

R2CB SERIES CIRCUIT BREAKERS - ACCESSORIES

Bus Bar Connector



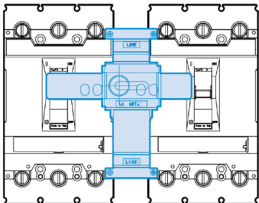
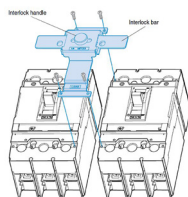
R2CB-SPXX

Model Number	Description
R2CB-SP03A	Bus Bar Connections Accessory for Frame 100, 3 Piece Set
R2CB-SP2A3A	Bus Bar Connections Accessory for Frame 150, 3 Piece Set
R2CB-SP2B3A	Bus Bar Connections Accessory for Frame 250, 3 Piece Set
R2CB-SP33A	Bus Bar Connections Accessory for Frame 400/600, 3 Piece Set
R2CB-SP53A	Bus Bar Connections Accessory for Frame 800/1200, 3 Piece Set

Mechanical Interlock



R2CB-MITXX



Model Number	Description
R2CB-MIT03	Mechanical Interlock Frame 100
R2CB-MIT23	Mechanical Interlock Frame 150/250
R2CB-MIT33	Mechanical Interlock Frame 400/600
R2CB-MIT53	Mechanical Interlock Frame 800/1200

Shunt Trip



R2CB-SHT-UTE100-120



R2CB-SHT-UTS600-120



R2CB-SHT-UTS1200-120

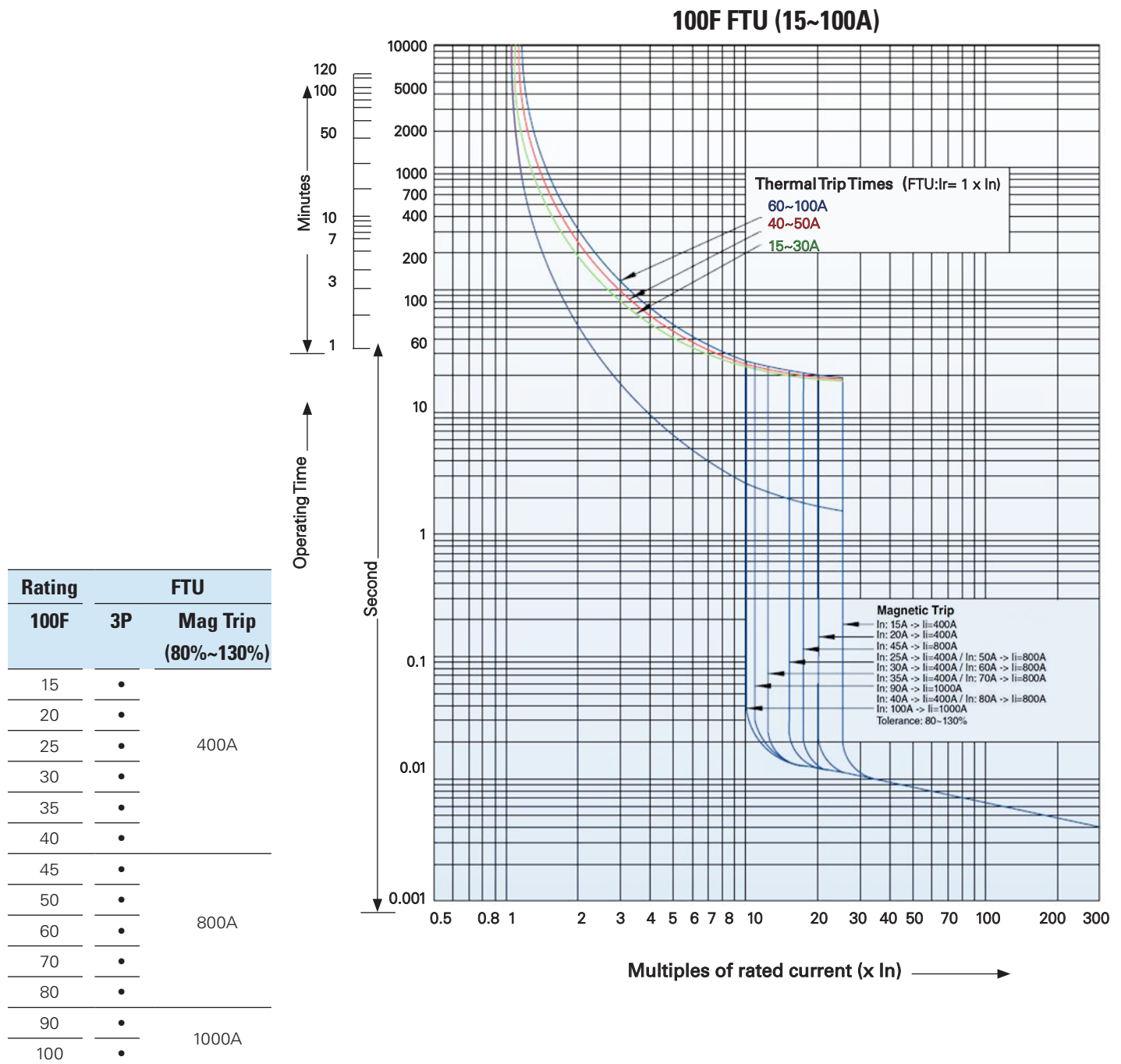
Model Number	Description
R2CB-SHT-UTE100-120	Shunt Trip for Frame 100 CB AC/DC 100-130vac Right Pole Installation
R2CB-SHT-UTS600-120	Shunt Trip for Frame 150 - 600 CB AC/DC 100-130vac Left Pole Installation
R2CB-SHT-UTS1200-120	Shunt Trip for Frame 800/1200 CB AC/DC 100-130vac Right Pole Installation

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.

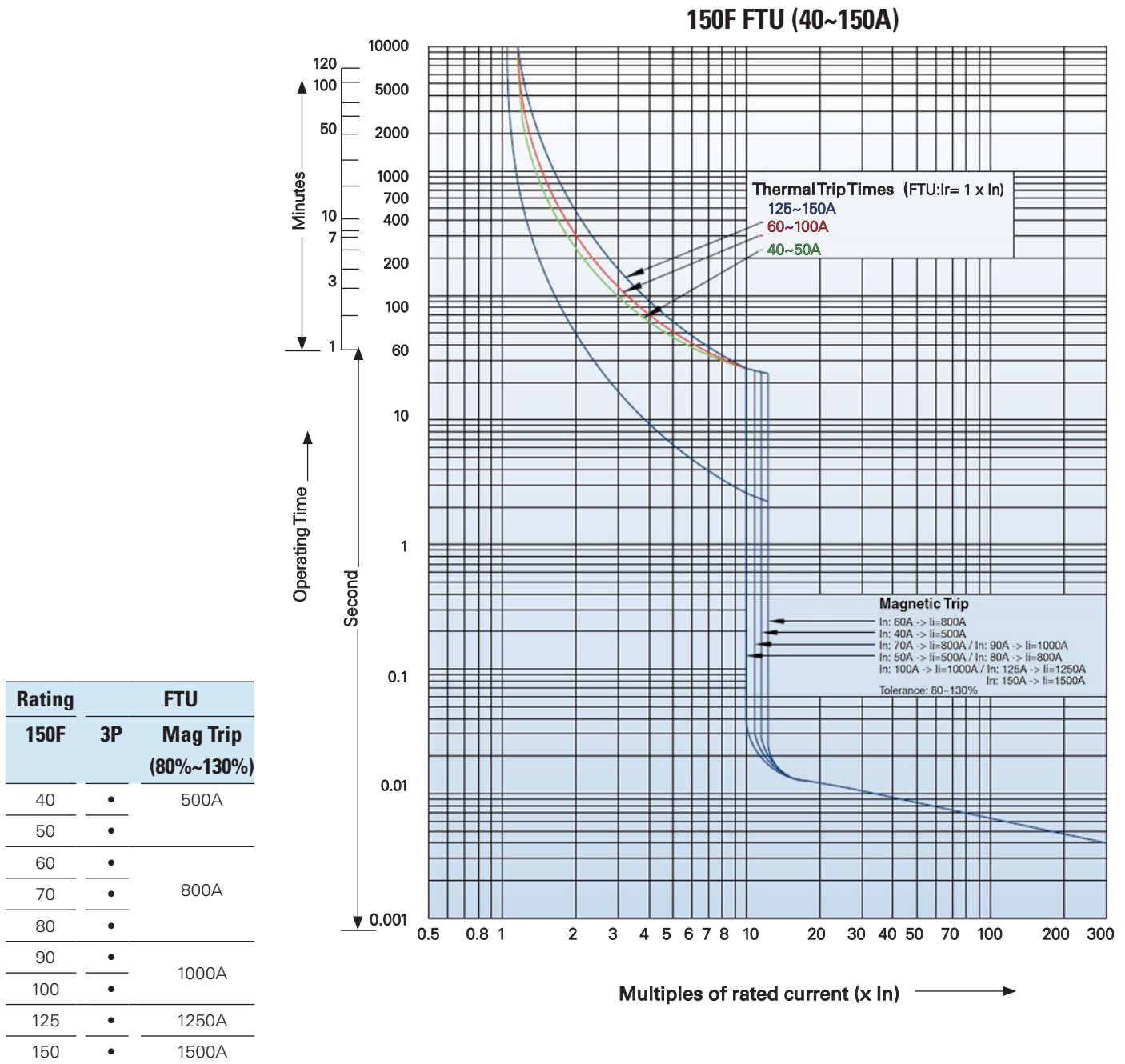


R2CB SERIES

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.

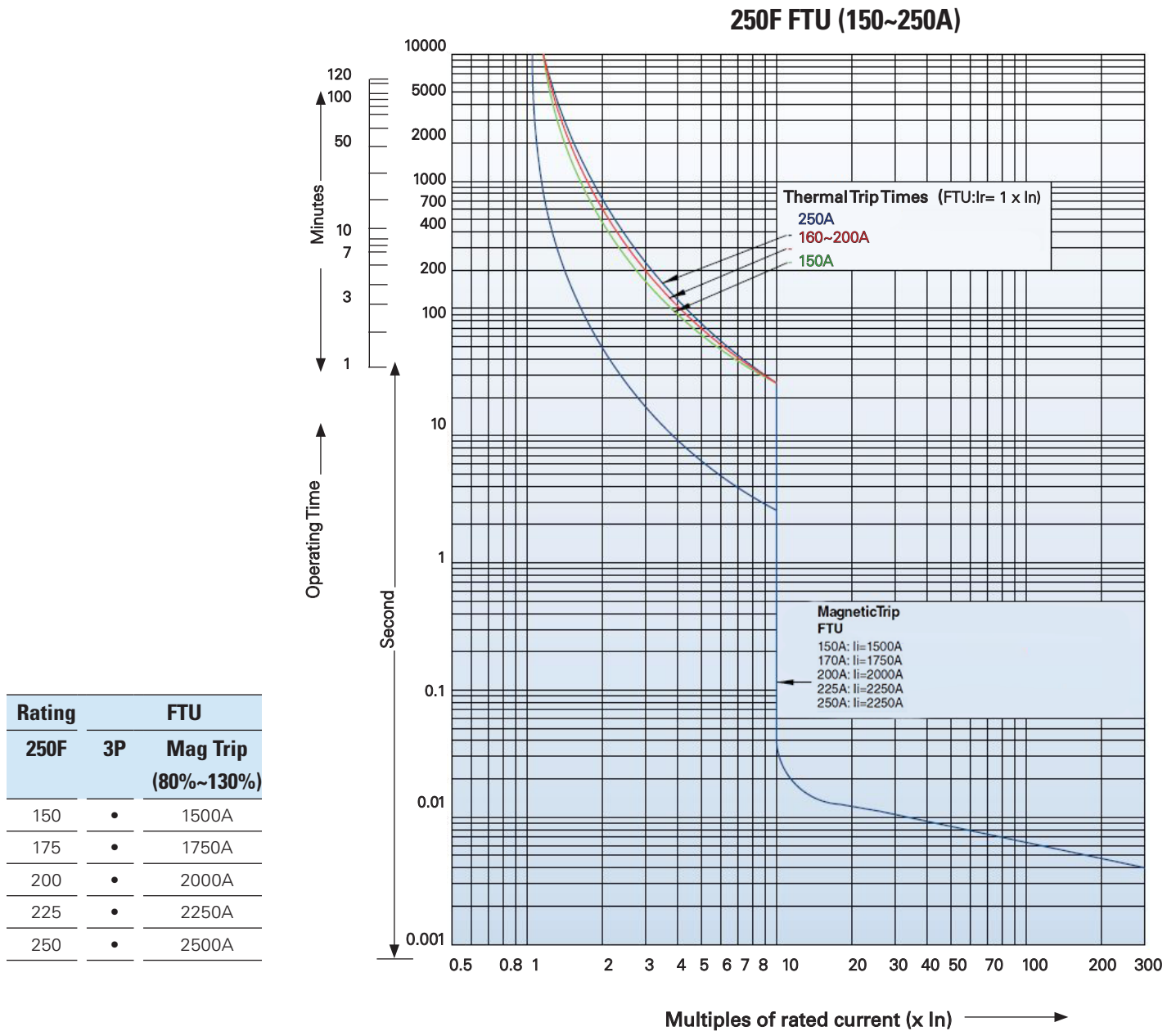


R2CB SERIES

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.

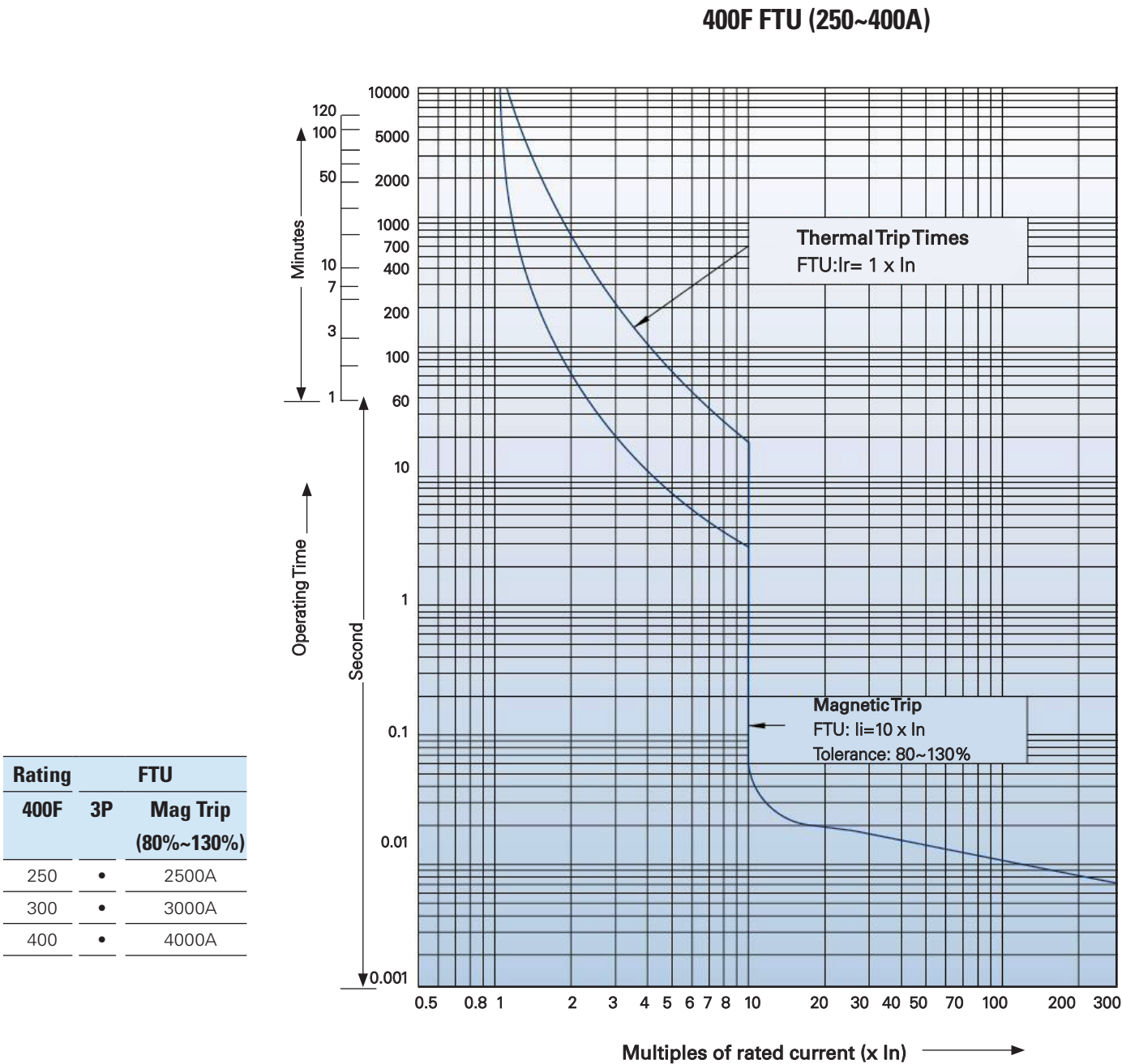


R2CB SERIES

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.



R2CB SERIES

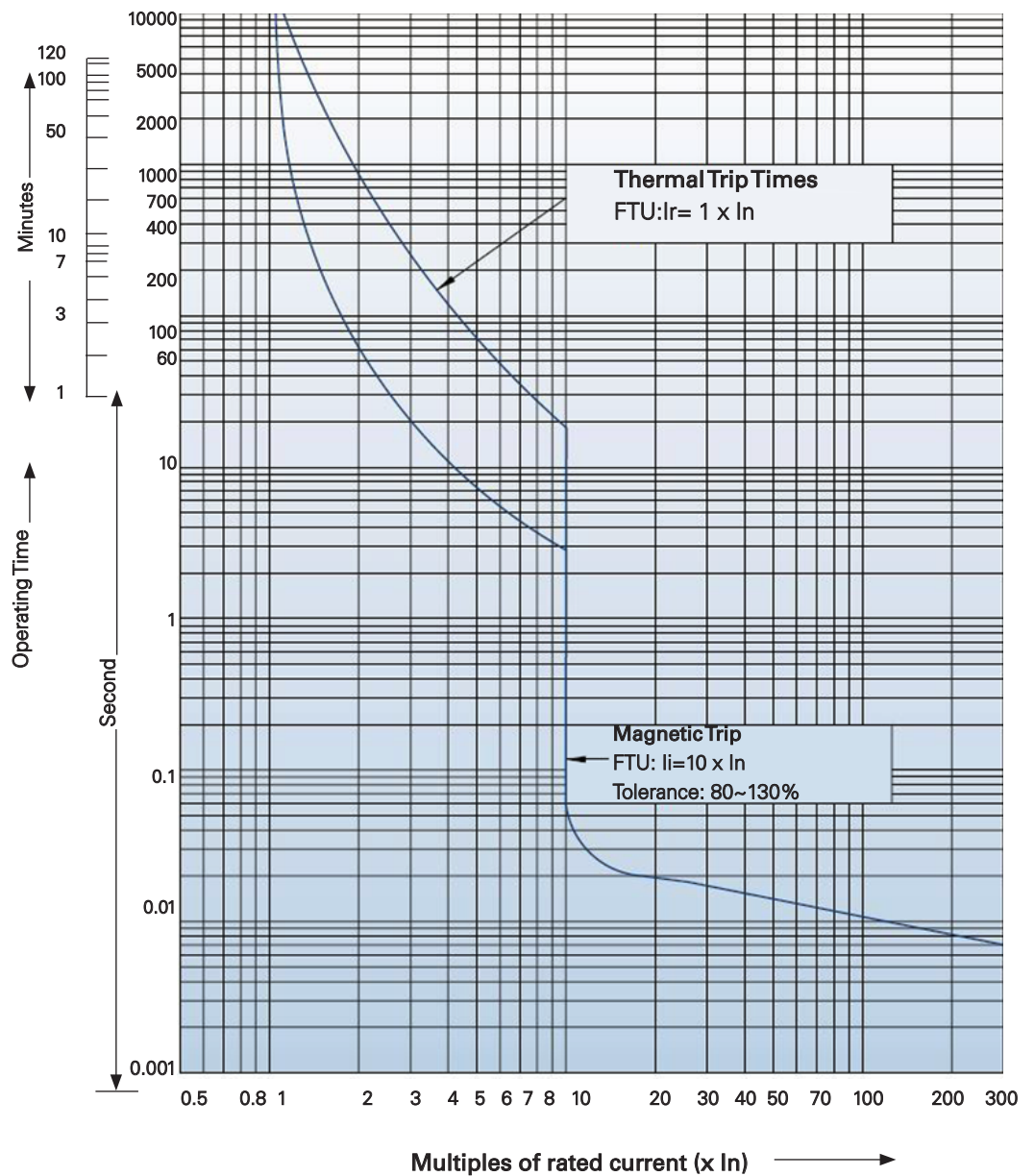
Molded-Case Circuit Breakers

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)

Rating	FTU	
600F	3P	Mag Trip (80%~130%)
500	•	5000A
600	•	6000A



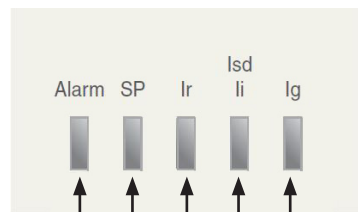
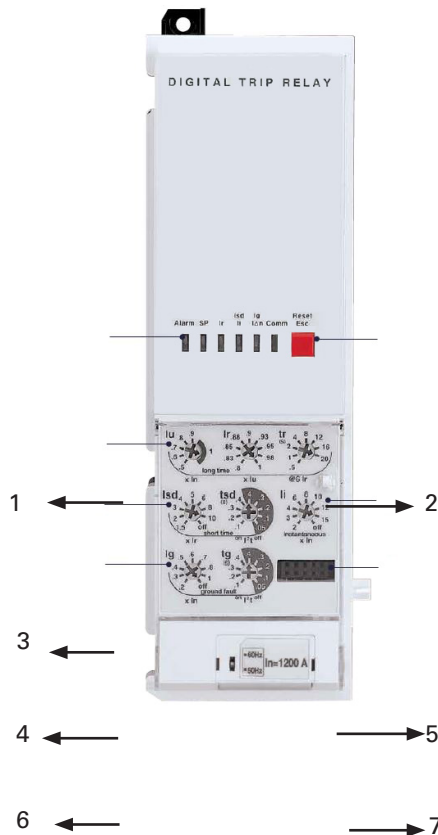
TRIP UNITS FOR 800F AND 1200F

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, OCRG 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
- lsd / 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 **lu, lr:** Long-time current setting, **tr:** Long-time tripping delay setting

4 **lsd:** Short-time current setting, **tsd:** Short-time tripping delay setting

5 **li:** Instantaneous current setting

6 **lg:** Ground fault setting, **tg:** Ground fault tripping delay setting

7 **Test Terminal:** OCR test terminal (Connected with OCR tester)

R2CB SERIES

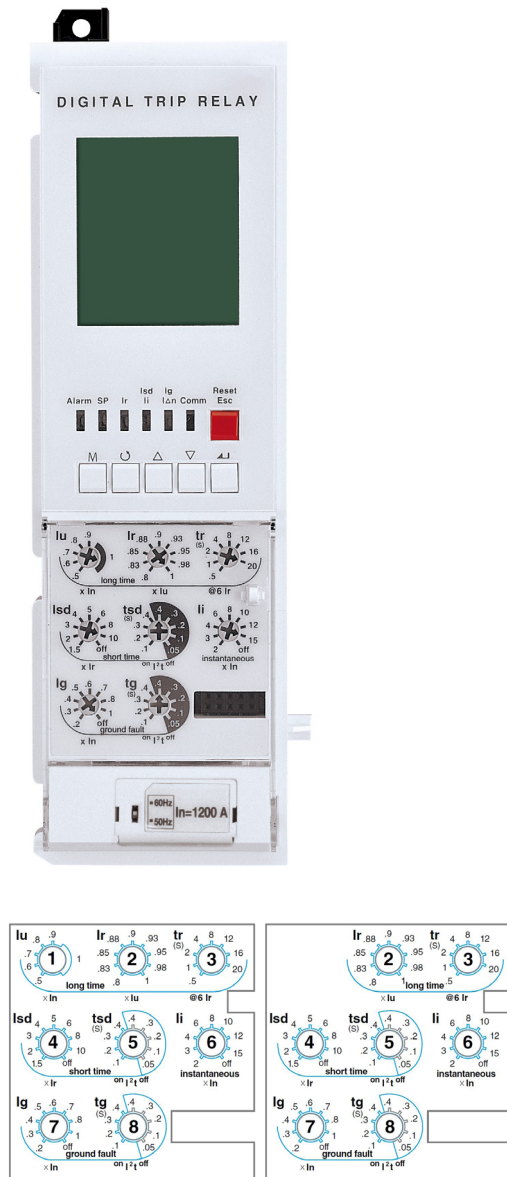
Molded-Case Circuit Breakers

Frame 800, 1200 Trip Curves

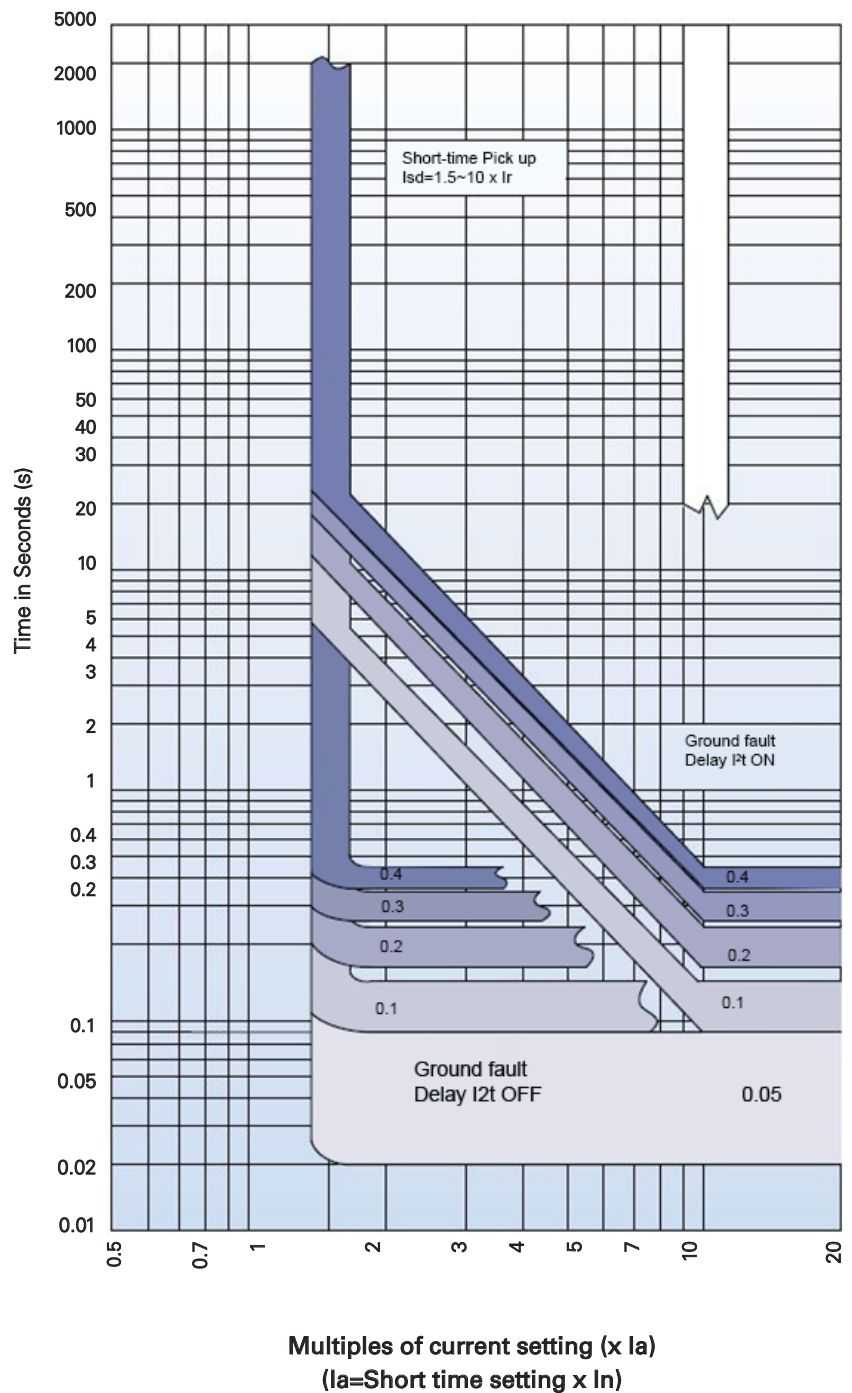
This curve is to be used for application and coordination purposes only.

Short-Time Delay (400~1200A)

Short-time pickup $1.5 \sim 10 \times I_a$
and delay $0.1 \sim 0.4s$



④, ⑤ Short-time setting



R2CB SERIES

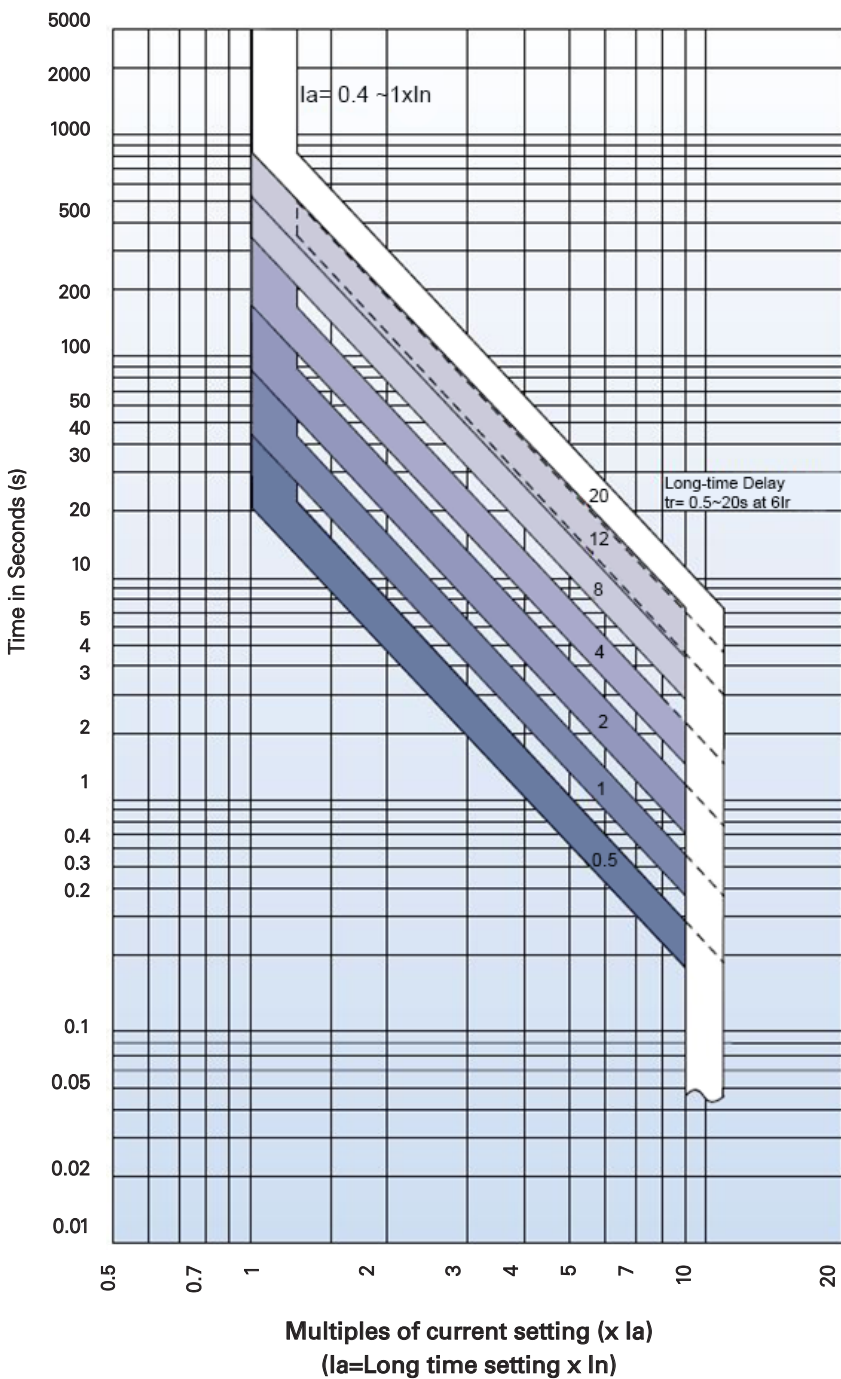
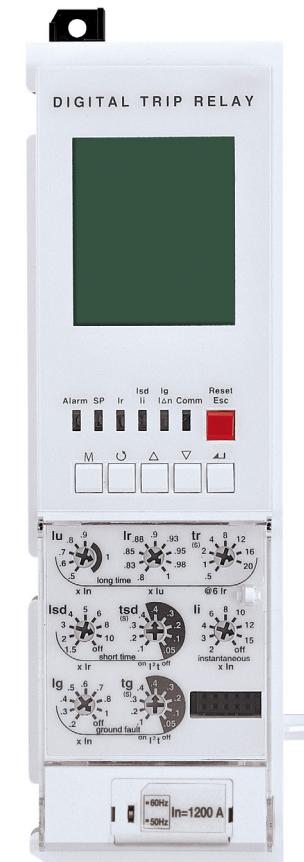
Molded-Case Circuit Breakers

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 0.4~1 x Ia
and delay 0.5~20s**



①, ②, ③ Short-time setting

R2CB SERIES

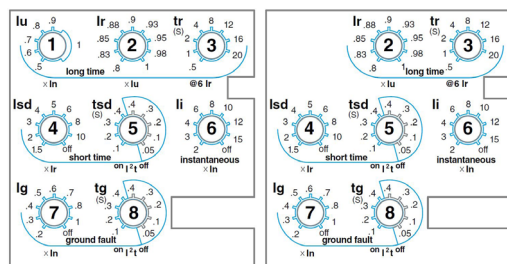
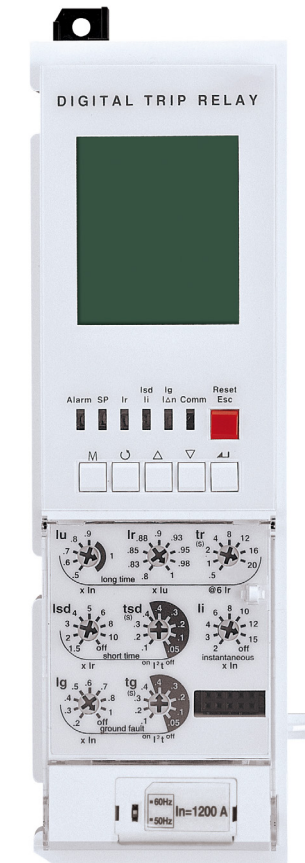
Molded-Case Circuit Breakers

Frame 800,1200 Trip Curves

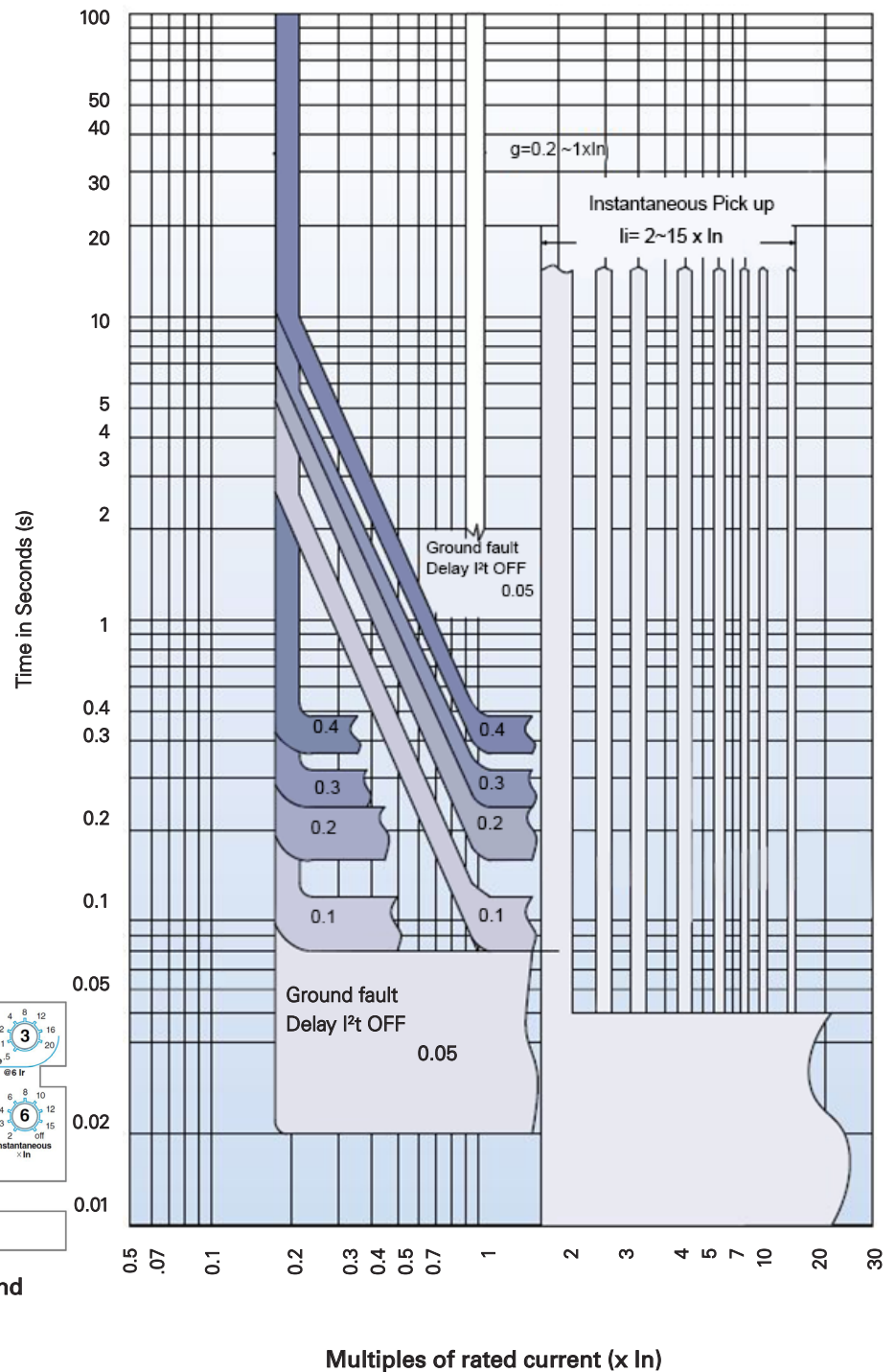
This curve is to be used for application and coordination purposes only.

Instantaneous and Ground Fault (400~1200A)

Instantaneous pickup $2\sim15 \times I_n$
and Ground fault pickup $0.2\sim1 \times I_n$
and delay $0.1\sim0.4s$

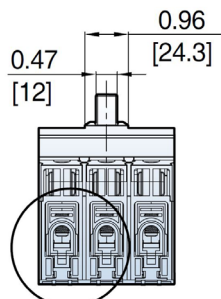
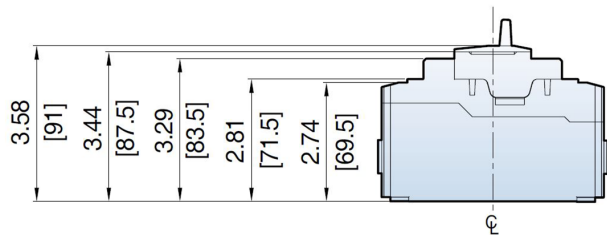
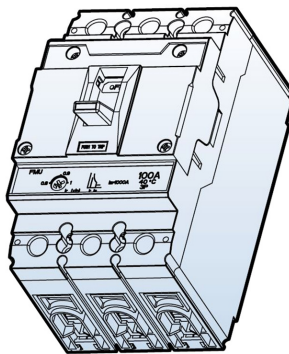
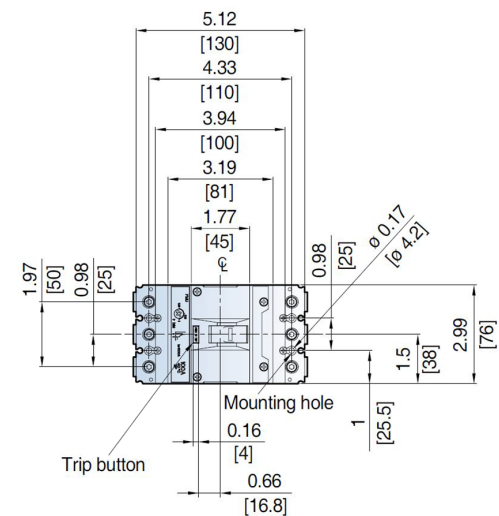


⑥, ⑦, ⑧ Instantaneous and Ground fault setting

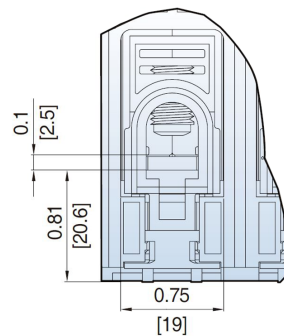


DIMENSIONS - 100F FRAME CIRCUIT BREAKERS

100F Frame 3P Circuit Breaker [Lug Type]

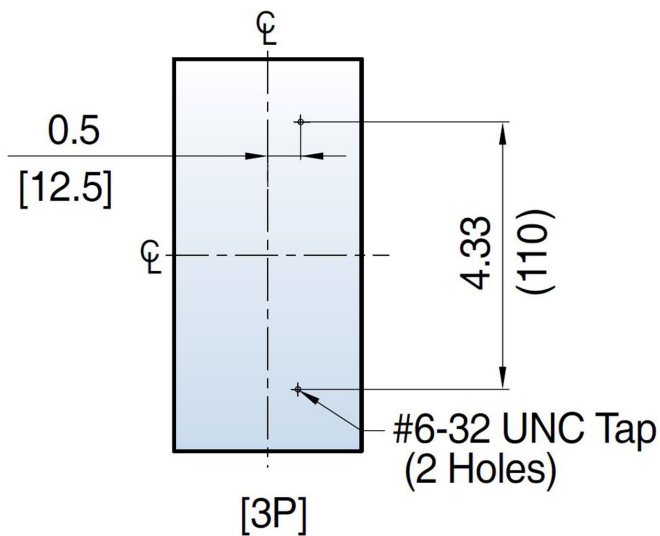


See Detail A



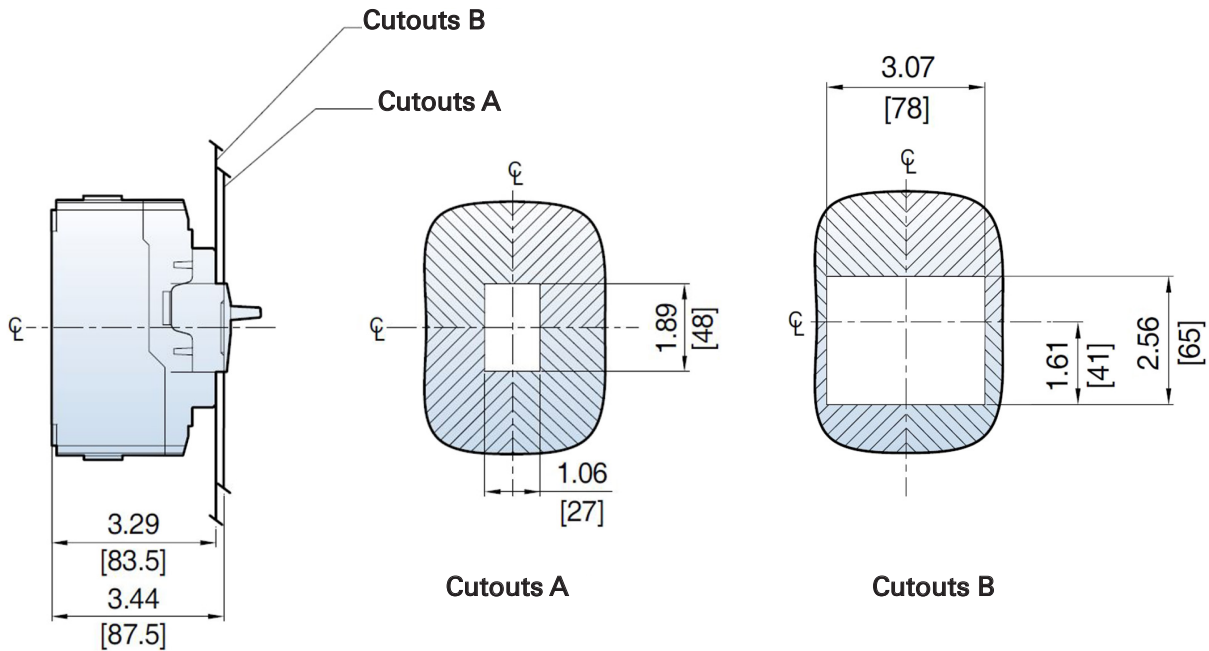
Detail A

100F Frame Circuit Breaker Mounting

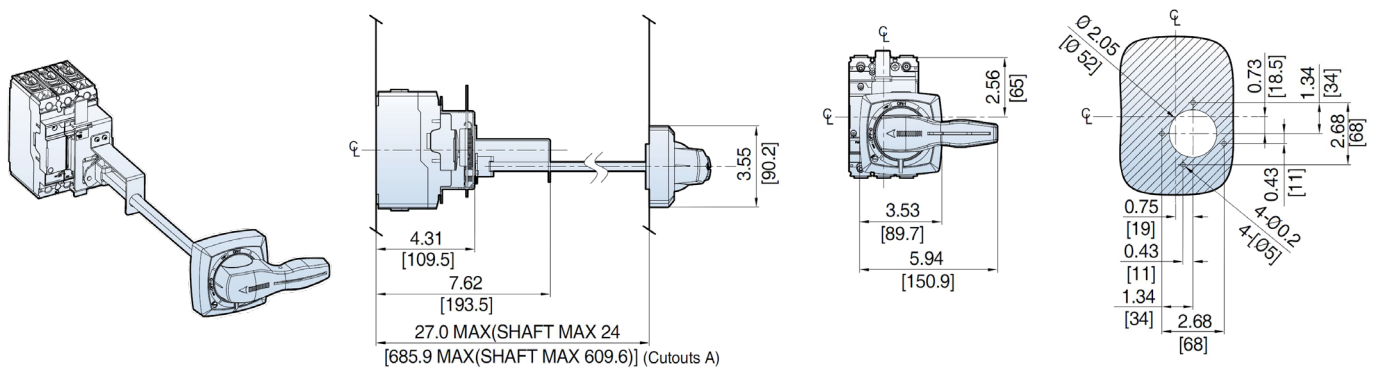


DIMENSIONS - 100F FRAME CIRCUIT BREAKERS

100F Frame Circuit Breaker Door Cutouts

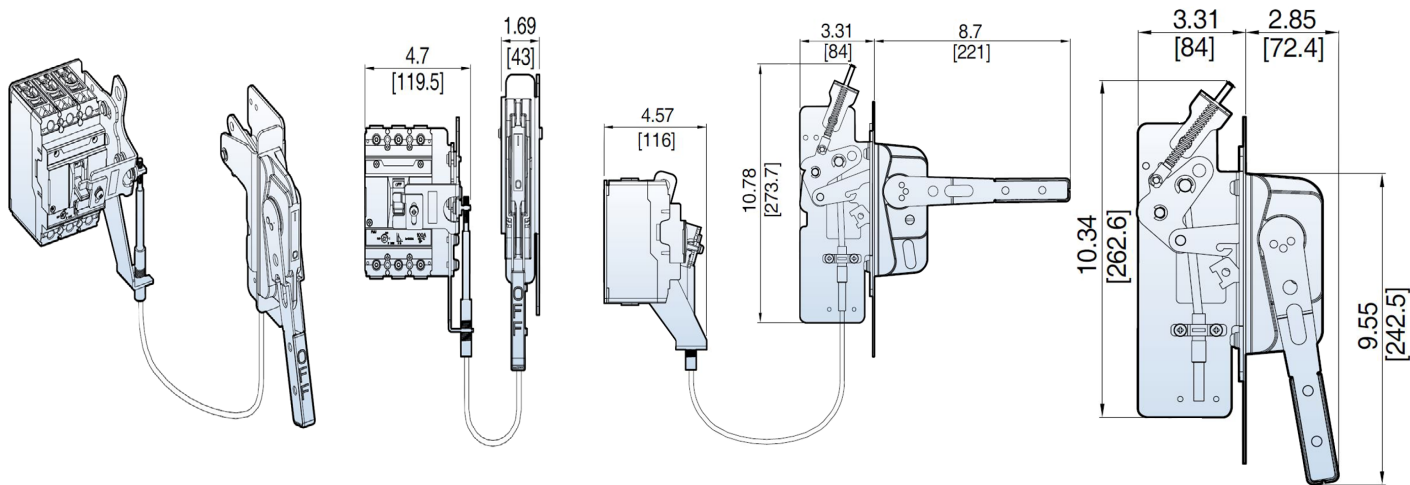


100F NEMA Door-Mounted Rotary Operating Handle R2CB-EH [VOC12, X0C12]



DIMENSIONS - 100F FRAME CIRCUIT BREAKERS

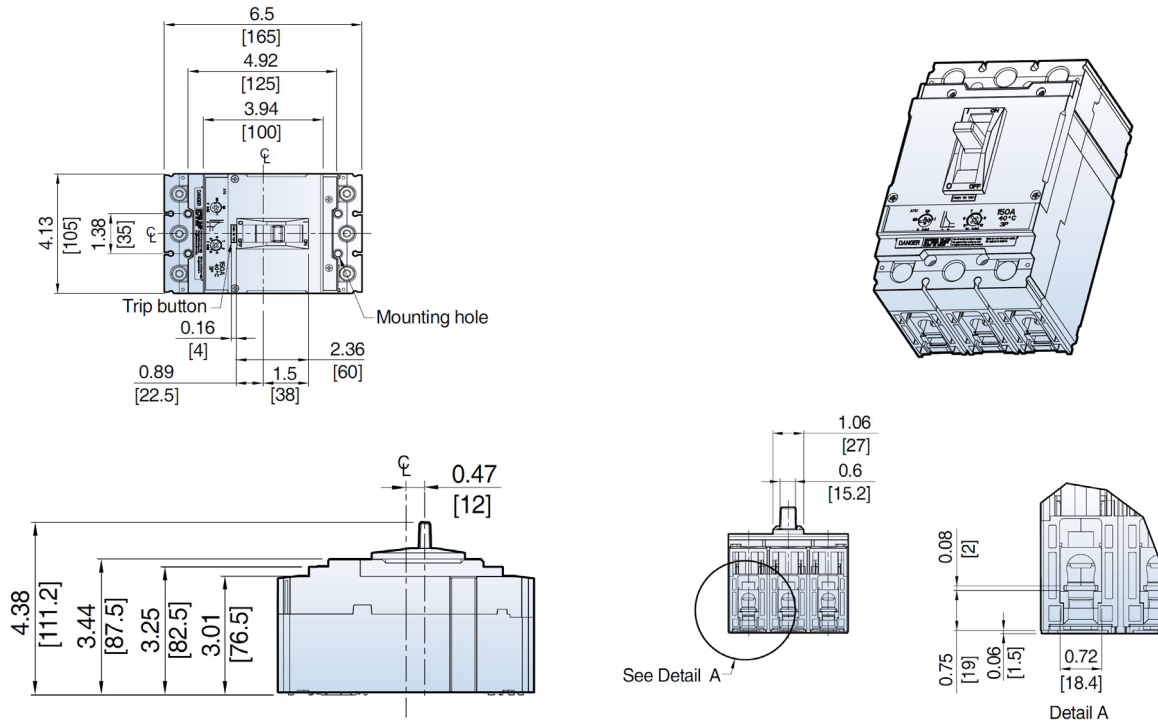
100F Flange-Mounted Cable Operating Handle R2CB-FH [US, XS]



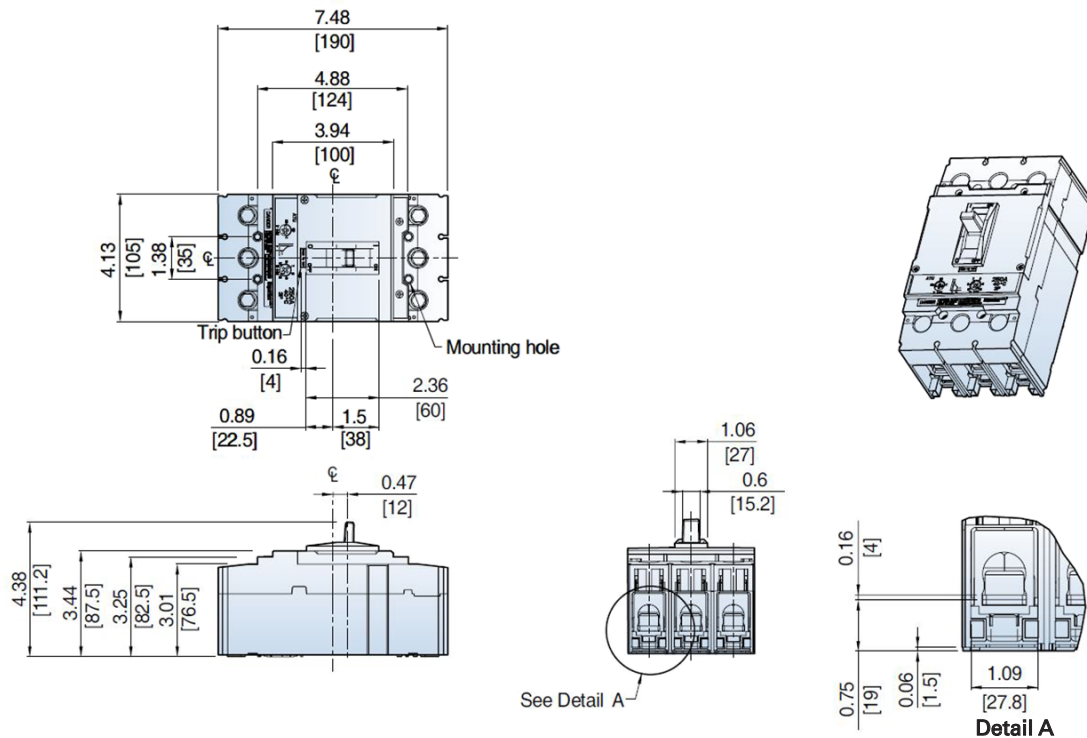
Note: Flange cable sold separately.

DIMENSIONS - 150F / 250F FRAME CIRCUIT BREAKERS

150F Frame 3P Circuit Breaker [Lug Type]

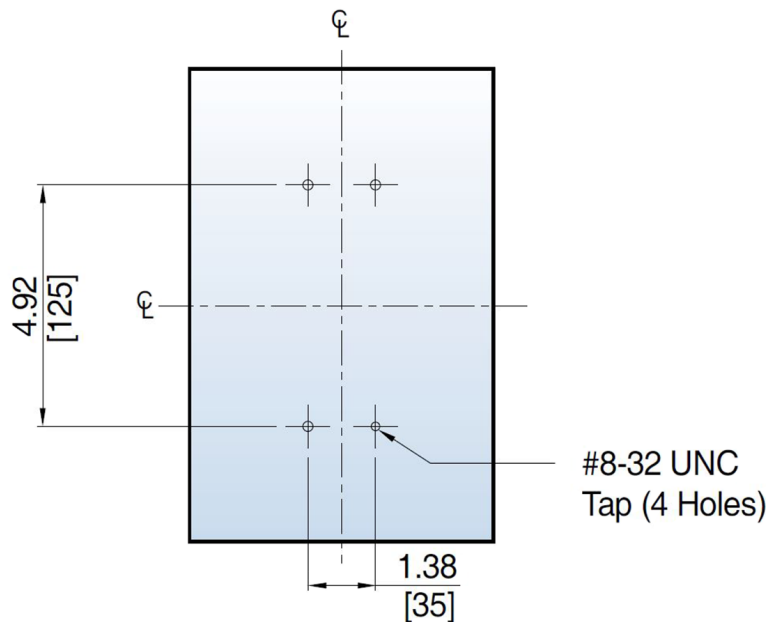


250F Frame 3P Circuit Breaker [Lug Type]

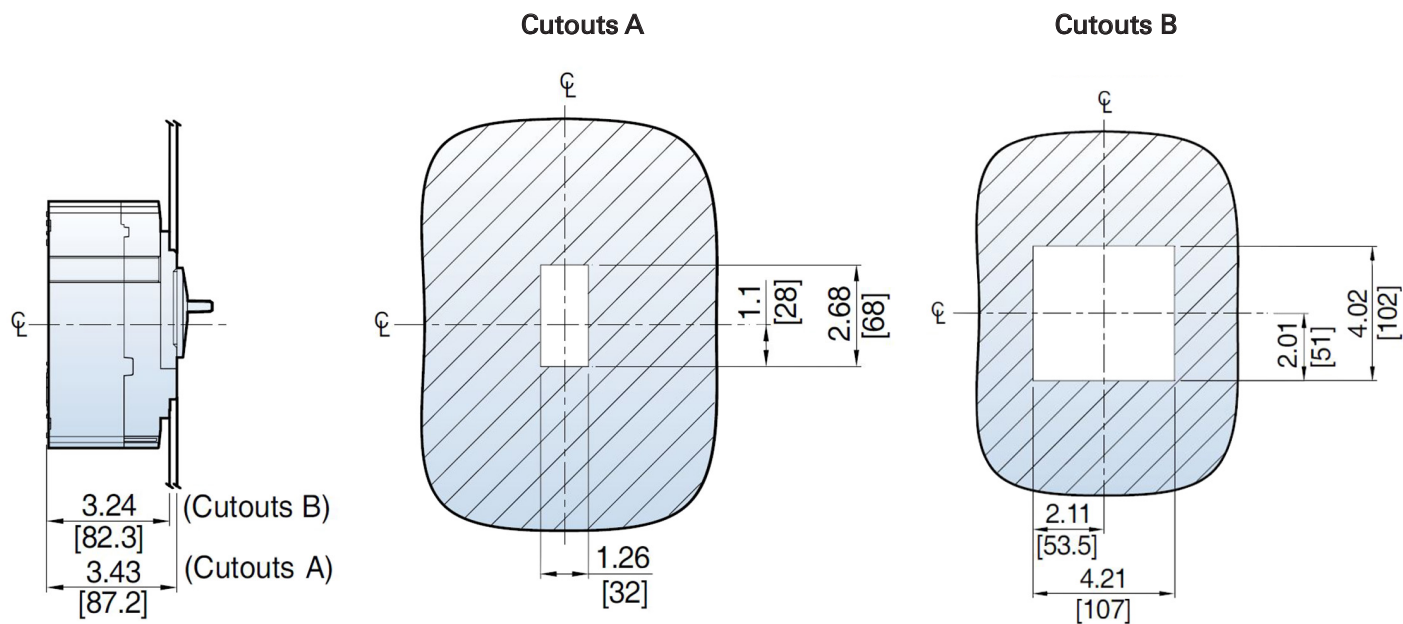


DIMENSIONS - 150F / 250F FRAME CIRCUIT BREAKERS

150F / 250F Circuit Breaker and Accessory Mounting

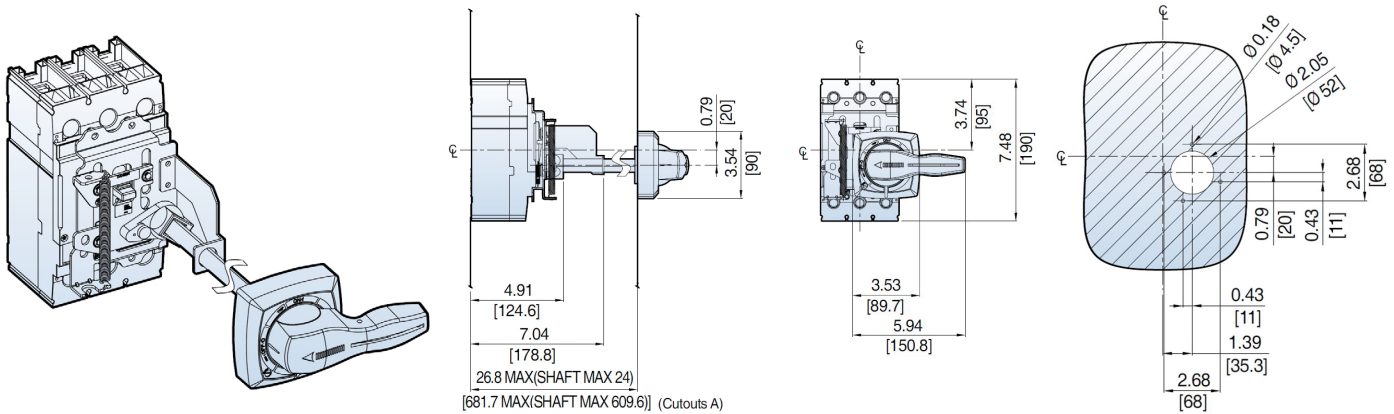


150F / 250F Circuit Breaker Door Cutouts

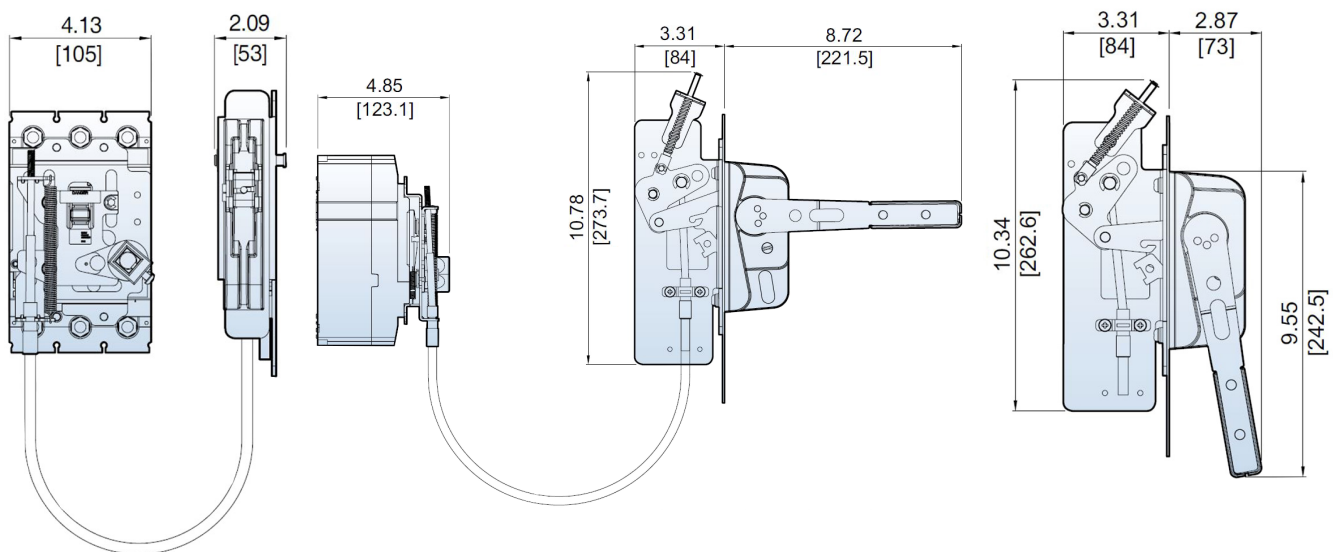


DIMENSIONS - 150F / 250F FRAME CIRCUIT BREAKERS

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



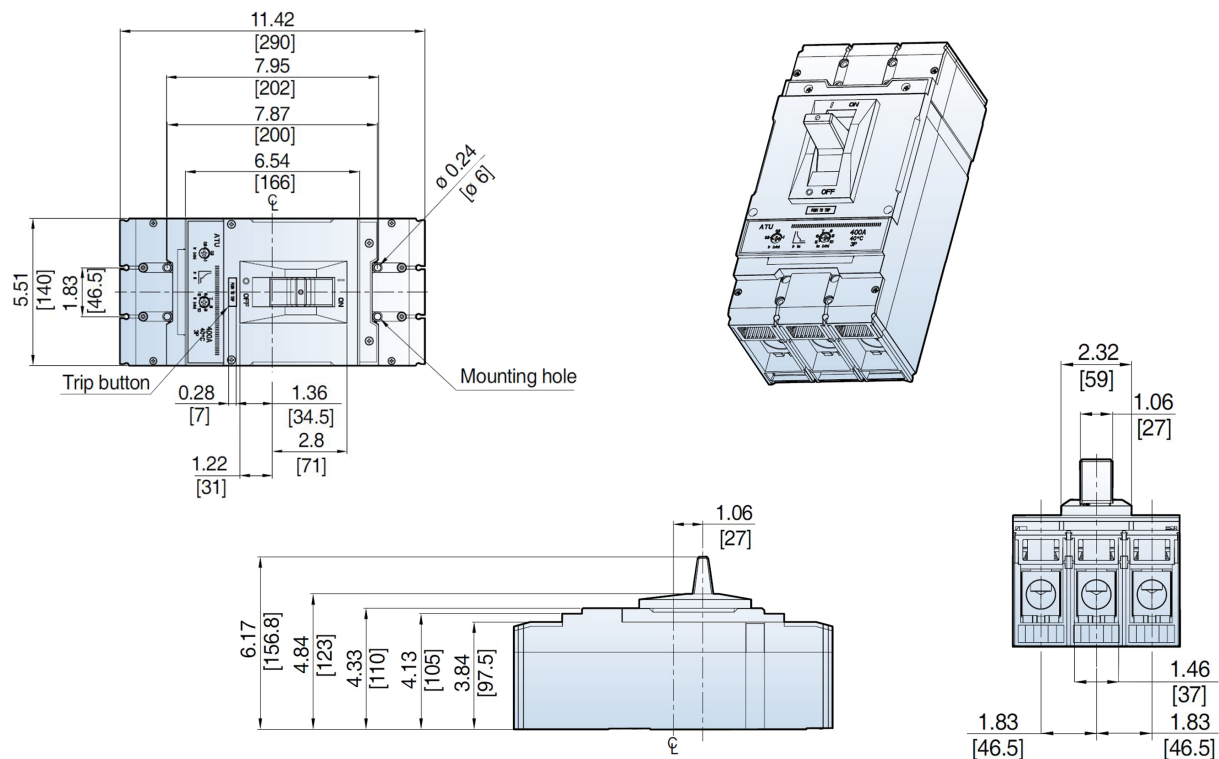
150F / 250F Flange-Mounted Cable Operating Handle R2CB-FH [U2, X2]



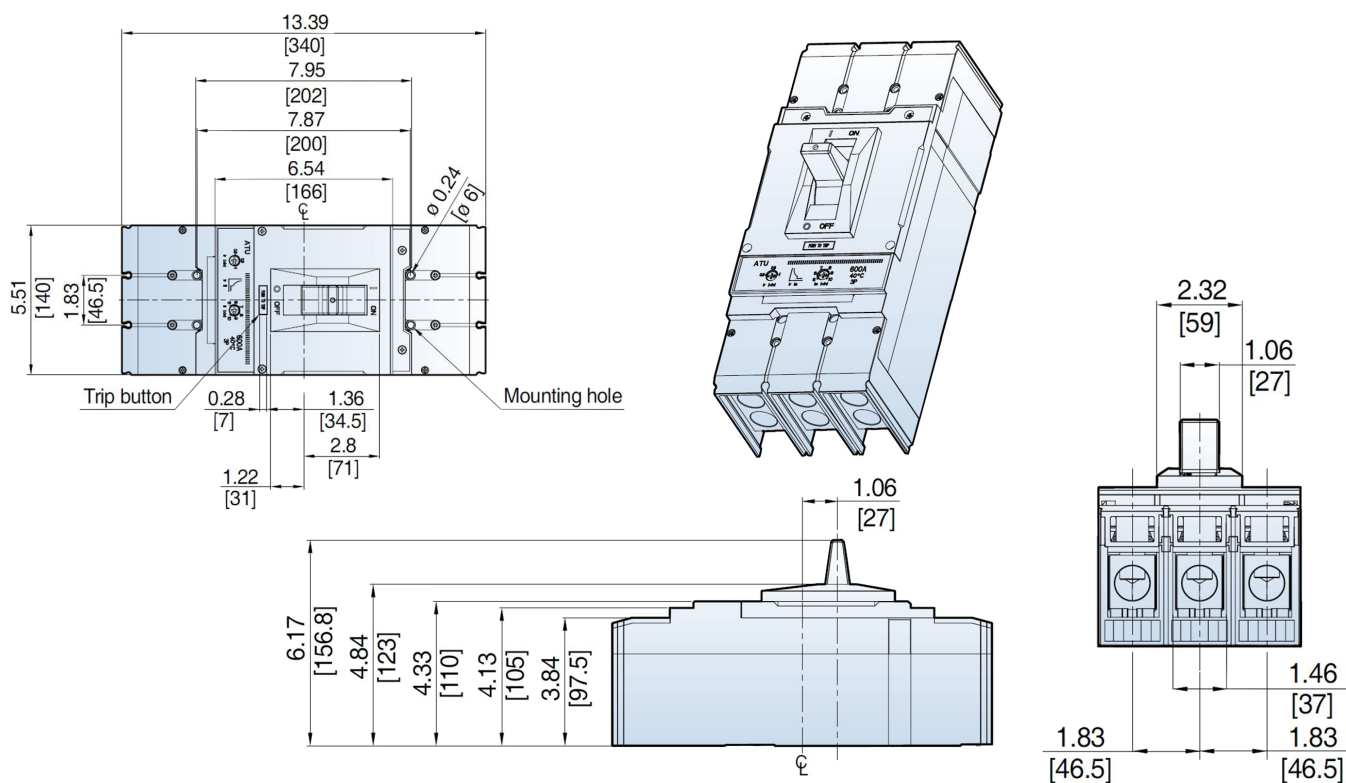
Note: Flange cable sold separately.

DIMENSIONS - 400F / 600F FRAME CIRCUIT BREAKERS

400F Frame 3P Circuit Breaker [Lug Type]

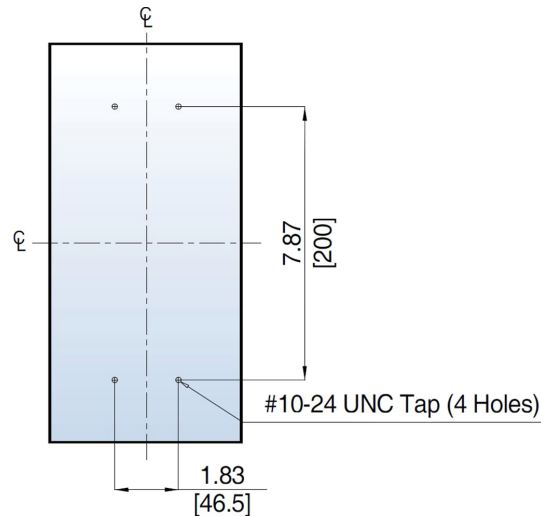


600F Frame 3P Circuit Breaker [Lug Type]

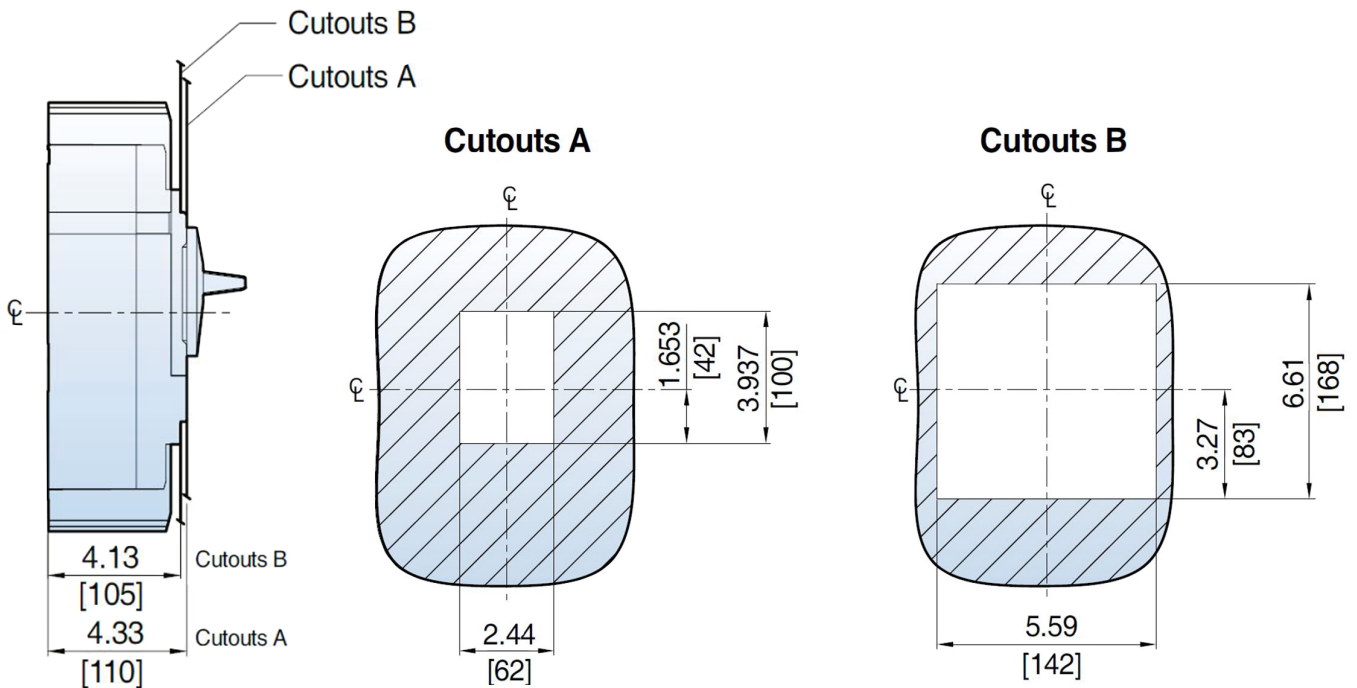


DIMENSIONS - 400F / 600F FRAME CIRCUIT BREAKERS

400F / 600F Circuit Breaker Mounting

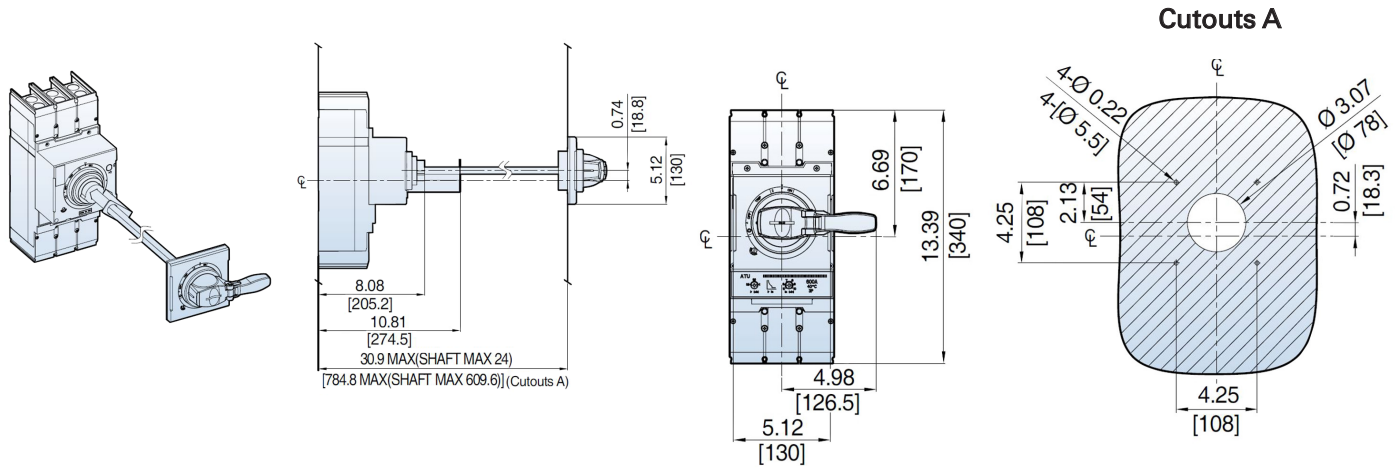


400F / 600F Circuit Breaker Door Cutouts

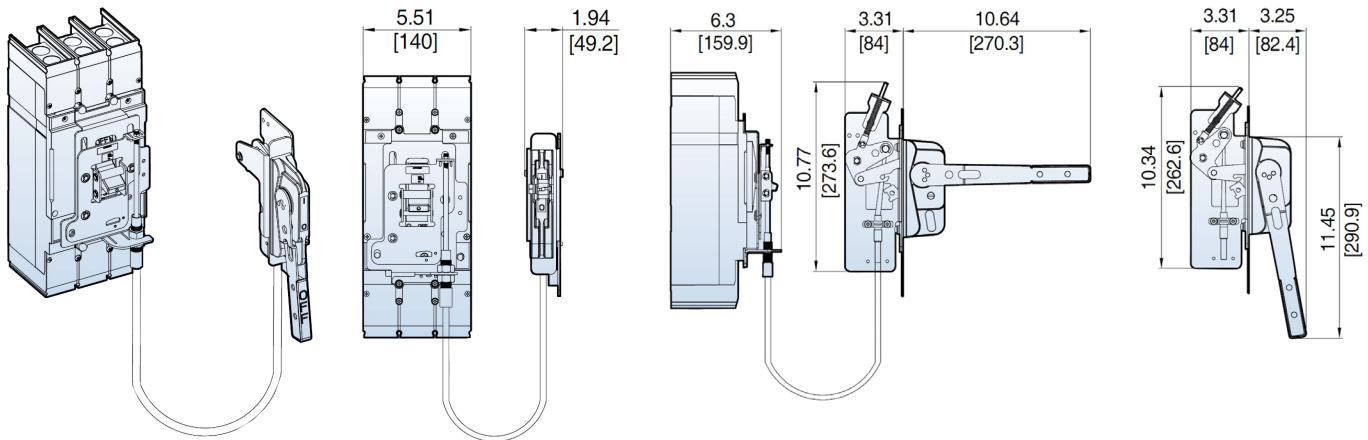


DIMENSIONS - 400F / 600F FRAME CIRCUIT BREAKERS

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



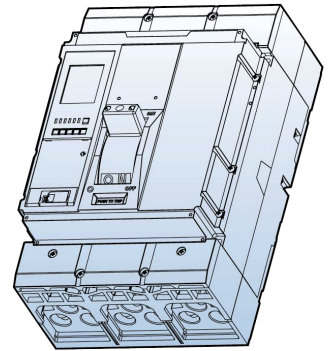
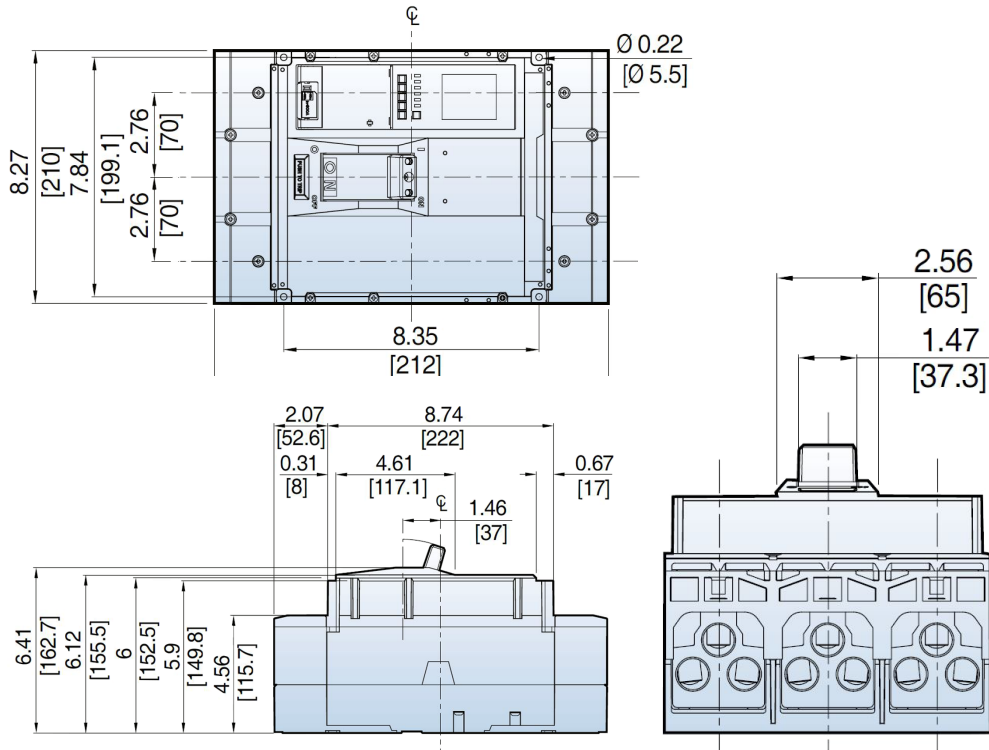
400F / 600F Flange-Mounted Cable Operating Handle R2CB-FH [U3, X3]



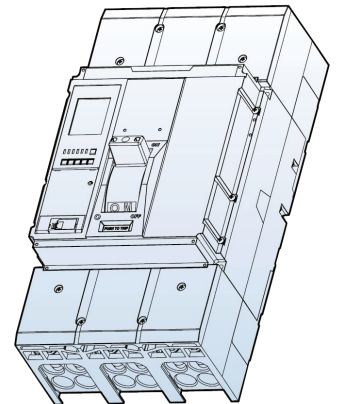
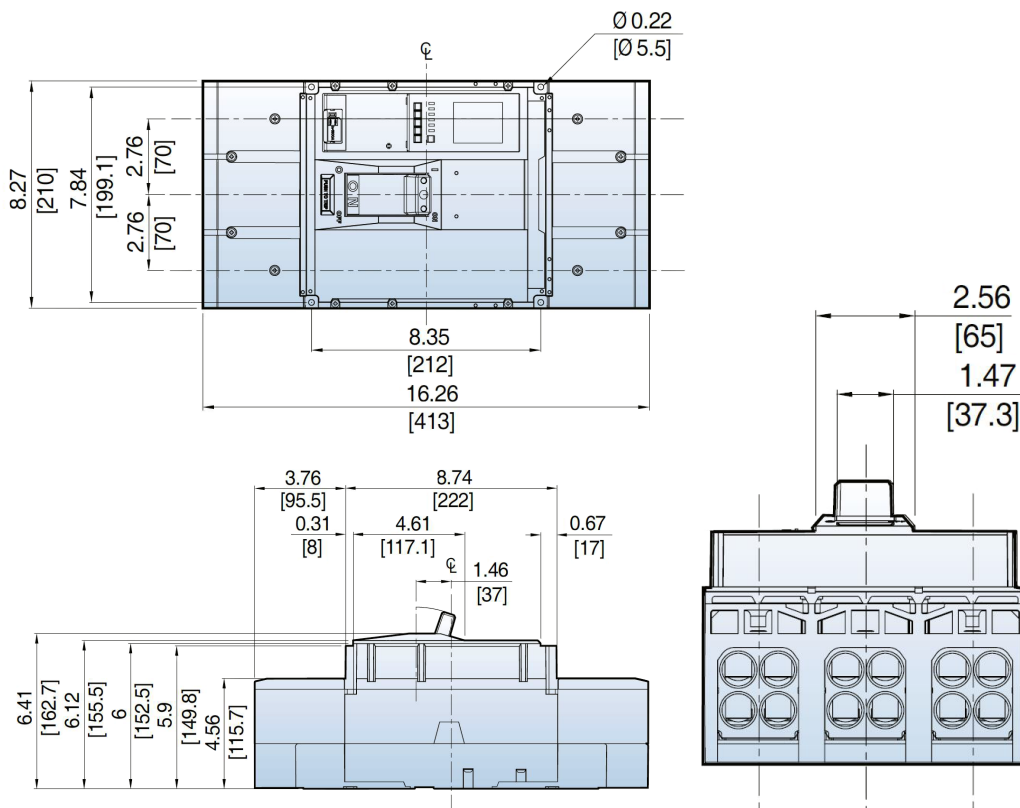
Note: Flange cable sold separately.

DIMENSIONS - 800F / 1200F FRAME CIRCUIT BREAKERS

800F Frame 3P Circuit Breaker [Lug Type]

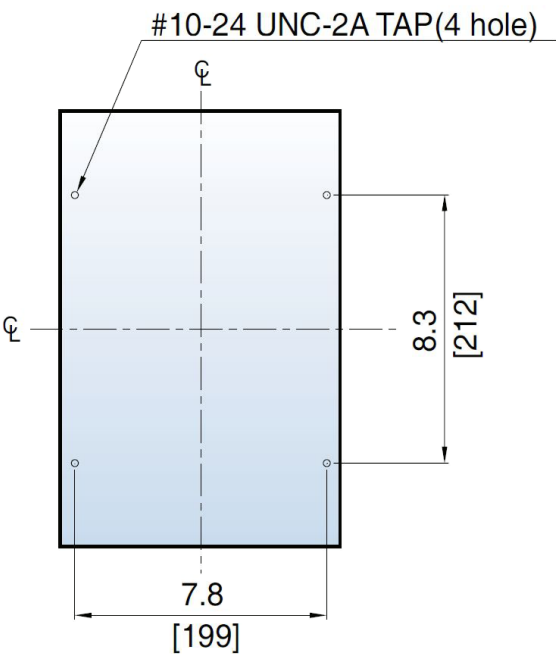


1200F Frame 3P Circuit Breaker [Lug Type]

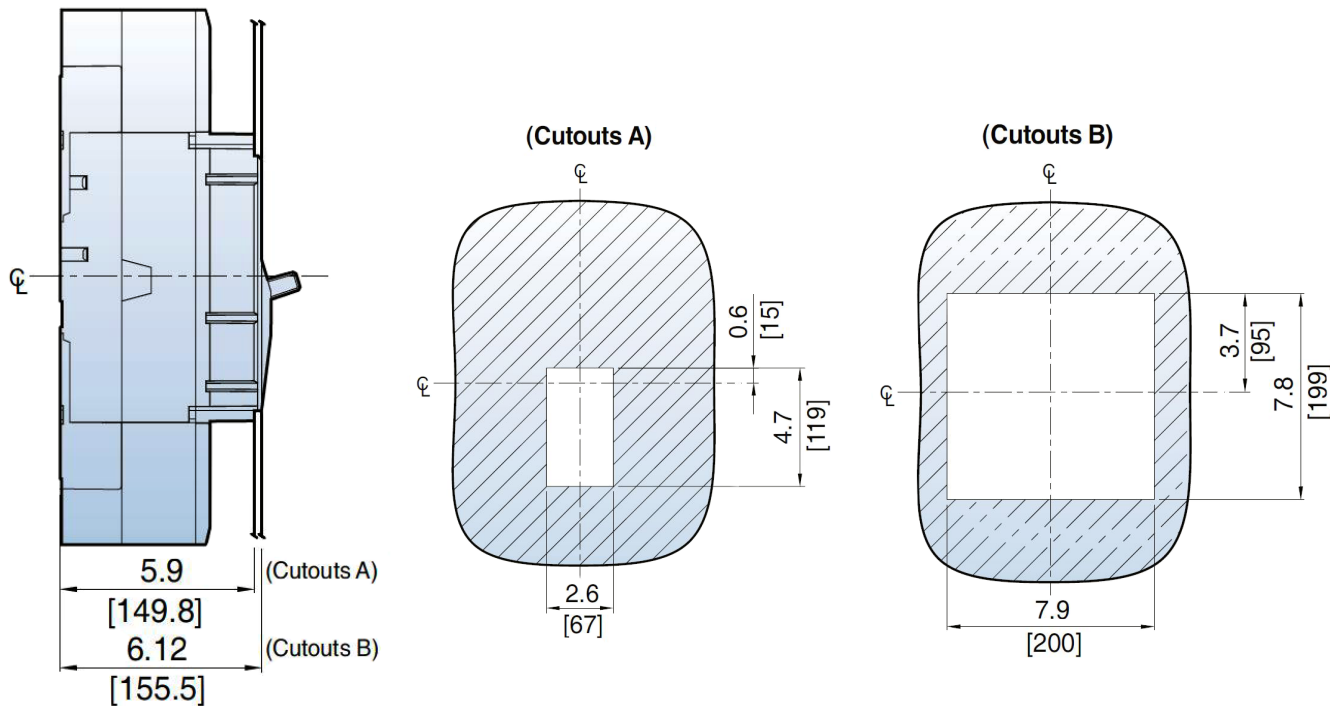


DIMENSIONS - 800F / 1200F FRAME CIRCUIT BREAKERS

800F / 1200F Circuit Breaker Mounting

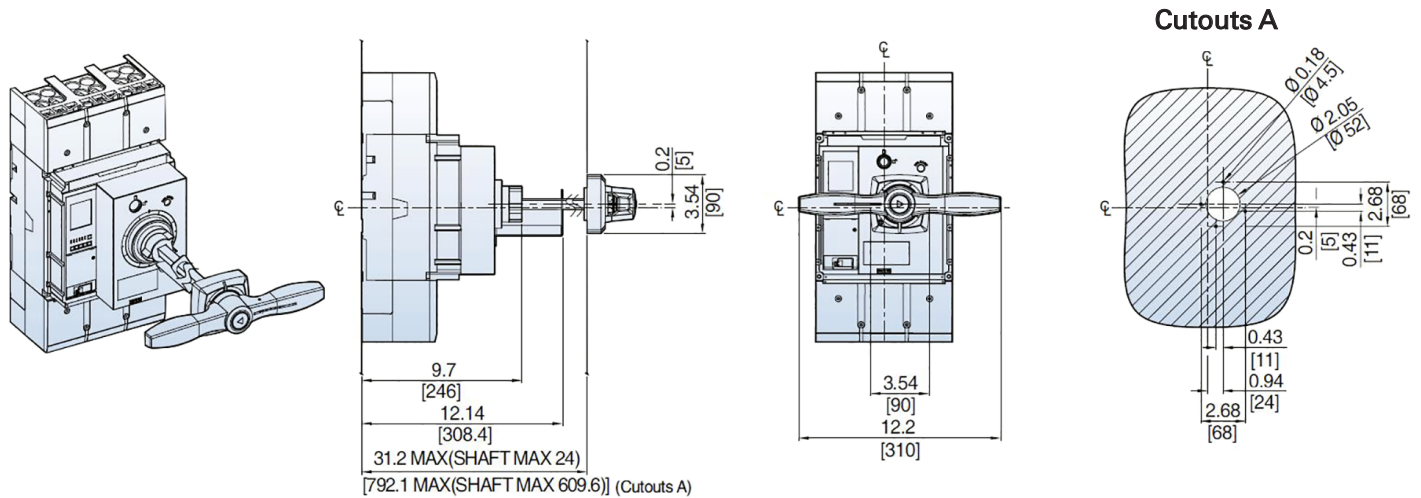


800F / 1200F Circuit Breaker Door Cutouts



DIMENSIONS - 800F / 1200F FRAME CIRCUIT BREAKERS

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



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