

# Masterpact™ NT/NW Universal Power Circuit Breakers

## Class 0613

## Parts List

0613DB1607

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Retain for future use.



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## Introduction

This document is intended to provide part numbers for a complete circuit breaker with cradle and required accessories, as well as field-installable accessory kits. Refer to the Masterpact™ NT/NW Universal Power Circuit Breaker Catalog (0613CT0001) for product descriptions.

For assistance in creating a complete circuit breaker and cradle catalog number, please contact your nearest Schneider Electric™ sales office.

To create a complete circuit breaker, first determine the rating required:

ANSI® C37/UL 1066 (page 4)

UL® 489 (page 13)

IEC® 60947-2 (page 25)

Then include:

1. Basic Block
2. Cradle (for drawout circuit breaker)
3. Circuit Breaker/Cradle Connectors
4. Trip Unit and Options (page 34)

Optional:

1. Circuit Breaker Accessories (page 38)
2. Cradle Accessories (page 41)
3. Miscellaneous Accessories (page 46)

Please see Appendix A (pages 53) for a request for quotation form.

**ANSI C37/UL 1066 Rated****Basic Block**

Please contact your nearest Square D/Schneider Electric sales office for assistance in building a complete circuit breaker or switch catalog number.

**Table 1 – T-, W-, and Y-Frame Drawout Circuit Breaker**

Frame Rating (A)	Model Number	Interrupting Rating (kA)			Sensor Plug (A)
		254 V	508 V	635 V	
<b>T-Frame</b>					
800	NT08N1	42	42	—	100,250,400,600,800
<b>W-Frame</b>					
800	NW08N1	42	42	42	100, 250, 400, 600, 800
	NW08H1	65	65	65	100, 250, 400, 600, 800
	NW08H2	85	85	85	100, 250, 400, 600, 800
	NW08H3	100	100	85	100, 250, 400, 600, 800
	NW08L1	200	200	130	100, 250, 400, 600, 800
	NW08L1F <sup>1</sup>	200	200	130	100, 250, 400, 600, 800
1600	NW16N1	42	42	42	800, 1000, 1200, 1600
	NW16H1	65	65	65	800, 1000, 1200, 1600
	NW16H2	85	85	85	800, 1000, 1200, 1600
	NW16H3	100	100	85	800, 1000, 1200, 1600
	NW16L1	200	200	130	800, 1000, 1200, 1600
	NW16L1F <sup>1</sup>	200	200	130	800, 1000, 1200, 1600
2000	NW20H1	65	65	65	1000, 1200, 1600, 2000
	NW20H2	85	85	85	1000, 1200, 1600, 2000
	NW20H3	100	100	85	1000, 1200, 1600, 2000
	NW20L1	200	200	130	1000, 1200, 1600, 2000
	NW20L1F <sup>1</sup>	200	200	130	1000, 1200, 1600, 2000
	3200	NW32H1	65	65	65
NW32H2		85	85	85	1600, 2000, 2500, 3000, 3200
NW32H3		100	100	85	1600, 2000, 2500, 3000, 3200
<b>Y-Frame</b>					
3200	NW32L1	200	200	130	2000, 2500, 3000, 3200
4000	NW40H2	85	85	85	2000, 2500, 3000, 3200, 4000
	NW40H3	100	100	85	2000, 2500, 3000, 3200, 4000
	NW40L1	200	200	130	2000, 2500, 3000, 3200, 4000
5000	NW50H2	85	85	85	2500, 3000, 3200, 4000, 5000
	NW50H3	100	100	85	2500, 3000, 3200, 4000, 5000
	NW50L1	200	200	130	2500, 3000, 3200, 4000, 5000
6000	NW60H2	85	85	85	3000, 3200, 4000, 5000, 6000
	NW60H3	100	100	85	3000, 3200, 4000, 5000, 6000
	NW60L1	200	200	130	3000, 3200, 4000, 5000, 6000

<sup>1</sup> Tested to show the arc flash hazard risk category as referenced in NFPA 70E.

**Table 2 – T-, W-, and Y-Frame Drawout Non-Automatic Switch**

Frame Rating (A)	Model Number	Interrupting Rating (kA) <sup>1</sup>			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
<b>T-Frame</b>					
800	NT08NA	42	42	—	42
<b>W-Frame</b>					
800	NW08HA	65	65	65	65
1600	NW16HA	65	65	65	65
2000	NW20HA	65	65	65	65
3200	NW32HA	65	65	65	65
<b>Y-Frame</b>					
4000	NW40HA	85	85	85	85
5000	NW50HA	85	85	85	85
6000	NW60HA	85	85	85	85

<sup>1</sup> When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

**Table 3 – W- and Y-Frame Drawout Automatic Switch**

Frame Rating (A)	Model Number	Interrupting Rating (kA) <sup>1</sup>			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
<b>W-Frame</b>					
800	NW08HF	100	100	85	85
	NW08HC	200	200	130	30
1600	NW16HF	100	100	85	85
	NW16HC	200	200	130	30
2000	NW20HF	100	100	85	85
	NW20HC	200	200	130	30
3200	NW32HF	100	100	85	85
<b>Y-Frame</b>					
3200	NW32HC	200	200	130	100
4000	NW40HF	100	100	85	85
	NW40HC	200	200	130	100
5000	NW50HF	100	100	85	85
	NW50HC	200	200	130	100
6000	NW60HF	100	100	85	85
	NW60HC	200	200	130	100

<sup>1</sup> When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

**Table 4 – T-, W-, and Y-Frame Fixed Circuit Breaker**

Frame Rating (A)	Model Number	Interrupting Rating (kA)			Sensor Plug (A)
		254 V	508 V	635 V	
<b>T-Frame</b>					
800	NT08N1	42	42	—	100,250,400,600,800
<b>W-Frame</b>					
800	NW08N1	42	42	42	100, 250, 400, 600, 800
	NW08H1	65	65	65	100, 250, 400, 600, 800
	NW08H2	85	85	85	100, 250, 400, 600, 800
	NW08H3	100	100	85	100, 250, 400, 600, 800
1600	NW16N1	42	42	42	800, 1000, 1200, 1600
	NW16H1	65	65	65	800, 1000, 1200, 1600
	NW16H2	85	85	85	800, 1000, 1200, 1600
	NW16H3	100	100	85	800, 1000, 1200, 1600
2000	NW20H1	65	65	65	1000, 1200, 1600, 2000
	NW20H2	85	85	85	1000, 1200, 1600, 2000
	NW20H3	100	100	85	1000, 1200, 1600, 2000
3200	NW32H1	65	65	65	1600, 2000, 2500, 3000, 3200
	NW32H2	85	85	85	1600, 2000, 2500, 3000, 3200
	NW32H3	100	100	85	1600, 2000, 2500, 3000, 3200
4000	NW40BH1	65	65	65	2000, 2500, 3000, 3200, 4000
	NW40BH2	85	85	85	2000, 2500, 3000, 3200, 4000
	NW40BH3	100	100	85	2000, 2500, 3000, 3200, 4000
<b>Y-Frame</b>					
4000	NW40H2	85	85	85	2000, 2500, 3000, 3200, 4000
	NW40H3	100	100	85	2000, 2500, 3000, 3200, 4000
5000	NW50H2	85	85	85	2500, 3000, 3200, 4000, 5000
	NW50H3	100	100	85	2500, 3000, 3200, 4000, 5000
6000	NW60H2	85	85	85	3000, 3200, 4000, 5000, 6000
	NW60H3	100	100	85	3000, 3200, 4000, 5000, 6000

**Table 5 – T-, W-, and Y-Frame Fixed Non-Automatic Switch**

Frame Rating (A)	Model Number	Interrupting Rating (kA) <sup>1</sup>			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
<b>T-Frame</b>					
800	NT08NA	42	42	—	42
<b>W-Frame</b>					
800	NW08HA	65	65	65	65
1600	NW16HA	65	65	65	65
2000	NW20HA	65	65	65	65
3200	NW32HA	65	65	65	65
4000	NW40BHA	65	65	65	65
<b>Y-Frame</b>					
4000	NW40HA	85	85	85	85
5000	NW50HA	85	85	85	85
6000	NW60HA	85	85	85	85

<sup>1</sup> When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

**Table 6 – W- and Y-Frame Fixed Automatic Switch**

Frame Rating (A)	Model Number	Interrupting Rating (kA) <sup>1</sup>			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
<b>W-Frame</b>					
800	NW08HF	100	100	85	85
1600	NW16HF	100	100	85	85
2000	NW20HF	100	100	85	85
3200	NW32HF	100	100	85	85
4000	NW40BHF	100	100	85	85
<b>Y-Frame</b>					
4000	NW40HF	100	100	85	85
5000	NW50HF	100	100	85	85
6000	NW60HF	100	100	85	85

<sup>1</sup> When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

**Cradle**

Please contact your nearest Square D/Schneider Electric sales office for assistance in building a complete circuit breaker or switch catalog number.

**Table 7 – Circuit Breaker/Switch**

Frame Rating (A)	Model Number		Interrupting Rating / Withstand Rating (kA)		
	Circuit Breaker	Switch	254 V	508 V	635 V
<b>T-Frame</b>					
800	NT08N1	NT08NA	42	42	—
	NT08H1	NT08HA	42	42	—
<b>W-Frame</b>					
800	NW08N1	—	42	42	42
	NW08H1	NW08HA	65	65	65
	NW08H2	—	85	85	85
	NW08H3	NW08HF	100	100	85
	NW08L1	NW08HC	200	200	130
	NW08L1F	—	200	200	130
1600	NW16N1	—	42	42	42
	NW16H1	NW16HA	65	65	65
	NW16H2	—	85	85	85
	NW16H3	NW16HF	100	100	85
	NW16L1	NW16HC	200	200	130
2000	NW16L1F	—	200	200	130
	NW20H1	NW20HA	65	65	65
	NW20H2	—	85	85	85
	NW20H3	NW20HF	100	100	85
	NW20L1	NW20HC	200	200	130
3200	NW20L1F	—	200	200	130
	NW32H1	NW32HA	65	65	65
	NW32H2	—	85	85	85
3200	NW32H3	NW32HF	100	100	85
	<b>Y-Frame</b>				
3200	NW32L1	NW32HC	200	200	130
4000	NW40H2	NW40HA	85	85	85
	NW40H3	NW40HF	100	100	85
	NW40L1	NW40HC	200	200	130
5000	NW50H2	NW50HA	85	85	85
	NW50H3	NW50HF	100	100	85
	NW50L1	NW50HC	200	200	130
6000	NW60H2	NW60HA	85	85	85
	NW60H3	NW60HF	100	100	85
	NW60L1	NW60HC	200	200	130



### Circuit Breaker/Cradle Connectors

For a complete connector set, order both the “Top” and “Bottom” connector kits. Kits for use on both fixed and drawout circuit breakers unless noted.

**Table 8 – Connectors**

Connector	Frame Rating	Location	Kit Catalog Number <sup>1</sup>
<b>T-Frame</b>			
Front Connected Flat (FCF)	800–1200 A	Top	SFCF12
		Bottom	SFCF12
Rear Connected T Horizontal/Vertical (RCTH/RCTV)	800–1200 A	Top	SRCTV12
		Bottom	SRCTV12
<b>W- and Y- Frame</b>			
Front Connected Flat (FCF)	Drawout Circuit Breaker 800–2000 A	Top	SFCF20T
		Bottom	SFCF20B
	Fixed Circuit Breaker 800–2000 A	Top	SFCF20FT
		Bottom	SFCF20FB
	3200 A <sup>2</sup> 4000 A	Top	SFCF40
		Bottom	SFCF40
Front Connected T (FCT)	Drawout Circuit Breaker 800–2000 A	Top	SFCT30
		Bottom	SFCT30
	Fixed Circuit Breaker 800–2000 A	Top	SFCT30
		Bottom	SFCR30B
	3200 A <sup>2</sup> 4000 A 5000 A	Top	SFCT50
		Bottom	SFCT50
Rear Connected Offset Vertical (RCOV)	2000 A <sup>2</sup> 3200 A	Top	SRCOV32T
		Bottom	SRCOV32B
	4000 A <sup>3</sup>	Top	SRCOV40
		Bottom	SRCOV40
	4000 A Fixed <sup>4</sup>	Top	SRCOV40BFX
		Bottom	SRCOV40BFX
Rear Connected T Horizontal/Vertical (RCTH /RCTV)	800–2000 A	Top	SRCTV20
		Bottom	SRCTV20
	3200 A <sup>2</sup> 4000 A 5000 A	Top	SRCTV50
		Bottom	SRCTV50
	6000 A	Top	SRCTVA60
		Bottom	SRCTVA60

<sup>1</sup> For a four-pole connector kit, add the suffix (4) to the kit number (e.g. SFCF124).

<sup>2</sup> L1/L1F only.

<sup>3</sup> For 4000 A W-frame fixed circuit breakers only.

<sup>4</sup> 4000 A W-frame fixed circuit breaker.

**ArcBlok™ Circuit Breakers Basic Block**

Please contact your nearest Square D/Schneider Electric sales office for assistance in building a complete circuit breaker or switch catalog number.

**Table 9 – ArcBlok W- and Y-Frame Drawout Circuit Breaker**

Frame Rating (A)	Model Number	Interrupting Rating (kA)			Sensor Plug (A)
		254 V	508 V	635 V	
<b>W-Frame</b>					
800	NW08N1	42	42	42	100, 250, 400, 600, 800
	NW08H1	65	65	65	100, 250, 400, 600, 800
	NW08H2	85	85	85	100, 250, 400, 600, 800
	NW08H3	100	100	85	100, 250, 400, 600, 800
	NW08L1	200	200	130	100, 250, 400, 600, 800
1600	NW08L1F	200	200	130	100, 250, 400, 600, 800
	NW16N1	42	42	42	800, 1000, 1200, 1600
	NW16H1	65	65	65	800, 1000, 1200, 1600
	NW16H2	85	85	85	800, 1000, 1200, 1600
	NW16H3	100	100	85	800, 1000, 1200, 1600
2000	NW16L1	200	200	130	800, 1000, 1200, 1600
	NW16L1F	200	200	130	800, 1000, 1200, 1600
	NW20H1	65	65	65	1000, 1200, 1600, 2000
3200	NW20H2	85	85	85	1000, 1200, 1600, 2000
	NW20H3	100	100	85	1000, 1200, 1600, 2000
	NW32H1	65	65	65	1600, 2000, 2500, 3000, 3200
3200	NW32H2	85	85	85	1600, 2000, 2500, 3000, 3200
	NW32H3	100	100	85	1600, 2000, 2500, 3000, 3200
<b>Y-Frame</b>					
3200	NW32L1	200	200	130	1600, 2000, 2500, 3000, 3200
4000	NW40H2	85	85	85	2000, 2500, 3000, 3200, 4000
	NW40H3	100	100	85	2000, 2500, 3000, 3200, 4000
	NW40L1	200	200	130	2000, 2500, 3000, 3200, 4000
5000	NW50H2	85	85	85	2500, 3000, 3200, 4000, 5000
	NW50H3	100	100	85	2500, 3000, 3200, 4000, 5000
	NW50L1	200	200	130	2500, 3000, 3200, 4000, 5000

**Table 10 – ArcBlok W- and Y-Frame Drawout Non-Automatic Switch**

Frame Rating (A)	Model Number	Interrupting Rating (kA) <sup>1</sup>			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
<b>W-Frame</b>					
800	NW08HA	65	65	65	65
1600	NW16HA	65	65	65	65
2000	NW20HA	65	65	65	65
3200	NW32HA	65	65	65	65
<b>Y-Frame</b>					
4000	NW40HA	85	85	85	85
5000	NW50HA	85	85	85	85

<sup>1</sup> When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

**Table 11 – Arc-Blok W- and Y-Frame Drawout Automatic Switch**

Frame Rating (A)	Model Number	Interrupting Rating (kA) <sup>1</sup>			Short-time Rating (kA RMS)
		254 V	508 V	635 V	
<b>W-Frame</b>					
800	NW08HF	100	100	85	85
	NW08HC	200	200	130	30
1600	NW16HF	100	100	85	85
	NW16HC	200	200	130	30
2000	NW20HF	100	100	85	85
3200	NW32HF	100	100	85	85
<b>Y-Frame</b>					
3200	NW32HC	200	200	130	100
4000	NW40HF	100	100	85	85
	NW40HC	200	200	130	100
5000	NW50HF	100	100	85	85
	NW50HC	200	200	130	100

<sup>1</sup> When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

## ArcBlok Cradle/Connections

Please contact your nearest Square D/Schneider Electric sales office for assistance in building a complete circuit breaker or switch catalog number.

See Table 8 for Connectors for the ArcBlok cradles.

**Table 12 – Circuit Breaker/Switch**

Frame Rating (A)	Model Number		Interrupting Rating / Withstand Rating (kA)		
	Circuit Breaker	Switch	254 V	508 V	635 V
<b>W-Frame</b>					
800	NW08N1	—	42	42	42
	NW08H1	NW08HA	65	65	65
	NW08H2	—	85	85	85
	NW08H3	NW08HF	100	100	85
	NW08L1	NW08HC	200	200	130
	NW08L1F	—	200	200	130
1600	NW16N1	—	42	42	42
	NW16H1	NW16HA	65	65	65
	NW16H2	—	85	85	85
	NW16H3	NW16HF	100	100	85
	NW16L1	NW16HC	200	200	130
	NW16L1F	—	200	200	130
2000	NW20H1	NW20HA	65	65	65
	NW20H2	—	85	85	85
	NW20H3	NW20HF	100	100	85
3200	NW32H1	NW32HA	65	65	65
	NW32H2	—	85	85	85
	NW32H3	NW32HF	100	100	85
<b>Y-Frame</b>					
3200	NW32L1	NW32HC	200	200	130
4000	NW40H2	NW40HA	85	85	85
	NW40H3	NW40HF	100	100	85
	NW40L1	NW40HC	200	200	130
5000	NW50H2	NW50HA	85	85	85
	NW50H3	NW50HF	100	100	85
	NW50L1	NW50HC	200	200	130
6000	NW60H2	NW60HA	85	85	85
	NW60H3	NW60HF	100	100	85

**UL 489 Rated****Basic Block****Table 13 – T-, W-, and Y-Frame Fixed Circuit Breaker**

Frame Rating (A)	Model Number	Interrupting Rating (kA)			Sensor Plug (A)
		240 V	480 V	600 V	
<b>T-Frame</b>					
800	NT08N	50	50	35	100, 250, 400, 600, 800
	NT08H	65	50	50	
	NT08L1	100	65	—	
	NT08L	200	100	—	
1200	NT12N	50	50	35	600, 800, 1000, 1200
	NT12H	65	50	50	
	NT12L1	100	65	—	
	NT12L	200	100	—	
1600	NT16N	50	50	35	800, 1000, 1200, 1600
	NT16H	65	50	50	
	NT16L1	100	65	—	
	NT16L	200	100	—	
<b>W-Frame</b>					
800	NW08N	65	65	50	100, 250, 400, 600, 800
	NW08H	100	100	85	
1200	NW12N	65	65	50	600, 800, 1000, 1200
	NW12H	100	100	85	
1600	NW16N	65	65	50	800, 1000, 1200, 1600
	NW16H	100	100	85	
2000	NW20N	65	65	50	1000, 1200, 1600, 2000
	NW20H	100	100	85	
2500	NW25H	100	100	85	1200, 1600, 2000, 2500
3000	NW30H	100	100	85	1600, 2000, 2500, 3000
<b>Y-Frame</b>					
4000	NW40H	100	100	85	2000, 2500, 3000, 4000
5000	NW50H	100	100	85	2500, 3000, 4000, 5000
6000	NW60H	100	100	85	3000, 4000, 5000, 6000

**Table 14 – T-, W-, and Y-Frame Fixed Automatic Switch**

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) <sup>1</sup>			Instantaneous Override (kA RMS)
		240 V	480 V	600 V	
<b>T-Frame</b>					
800	NT08HF	65	50	50	40
	NT08HB	200	100	NA	10
1200	NT12HF	65	50	50	40
	NT12HB	200	100	NA	10
1600	NT16HF	65	50	50	40
	NT16HB	200	100	NA	10
<b>W-Frame</b>					
800	NW08HF	100	100	85	40
1200	NW12HF	100	100	85	40
1600	NW16HF	100	100	85	40
2000	NW20HF	100	100	85	40
2500	NW25HF	100	100	85	65
3000	NW30HF	100	100	85	65
<b>Y-Frame</b>					
4000	NW40HF	100	100	85	75
5000	NW50HF	100	100	85	75
6000	NW60HF	100	100	85	75

<sup>1</sup> The withstand rating is the fault current (at rated voltage) that the switch will withstand without damage when protected by a circuit breaker with an equal continuous current rating.

## Drawout Devices

Table 15 – T-, W-, and Y-Frame Drawout Circuit Breaker

Frame Rating (A)	Model Number	Interrupting Rating (kA)			Sensor Plug (A)
		240 V	480 V	600 V	
<b>T-Frame</b>					
800	NT08N	50	50	35	100, 250, 400, 600, 800
	NT08H	65	50	50	
	NT08L1	100	65	—	
	NT08L	200	100	—	
	NT08LF <sup>1</sup>	200	100	—	
1200	NT12N	50	50	35	600, 800, 1000, 1200
	NT12H	65	50	50	
	NT12L1	100	65	—	
	NT12L	200	100	—	
	NT12LF <sup>1</sup>	200	100	—	
<b>W-Frame</b>					
800	NW08N	65	65	50	100, 250, 400, 600, 800
	NW08H	100	100	85	
	NW08L	200	150	100	
	NW08LF <sup>1</sup>	200	150	100	
1200	NW12N	65	65	50	600, 800, 1000, 1200
	NW12H	100	100	85	
	NW12L	200	150	100	
	NW12LF <sup>1</sup>	200	150	100	
1600	NW16N	65	65	50	800, 1000, 1200, 1600
	NW16H	100	100	85	
	NW16L	200	150	100	
	NW16LF <sup>1</sup>	200	150	100	
2000	NW20N	65	65	50	1000, 1200, 1600, 2000
	NW20H	100	100	85	
	NW20L	200	150	100	
	NW20LF <sup>1</sup>	200	150	100	
2500	NW25H	100	100	85	1200, 1600, 2000, 2500
	NW25L	200	150	100	
3000	NW30H	100	100	85	1600, 2000, 2500, 3000
	NW30L	200	150	100	
<b>Y-Frame</b>					
4000	NW40H	100	100	85	2000, 2500, 3000, 4000
	NW40L	200	150	100	
5000	NW50H	100	100	85	2500, 3000, 4000, 5000
	NW50L	200	150	100	
6000	NW60H	100	100	85	3000, 4000, 5000, 6000
	NW60L	200	150	100	

<sup>1</sup> Tested to show the arc flash hazard risk category as referenced in NFPA 70E.

**Table 16 – T-, W-, and Y-Frame Drawout Automatic Switch**

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) <sup>1</sup>			Instantaneous Override (kA RMS)
		240 V	480 V	600 V	
<b>T-Frame</b>					
800	NT08HF	65	50	50	40
	NT08HB	200	100	NA	10
1200	NT12HF	65	50	50	40
	NT12HB	200	100	NA	10
<b>W-Frame</b>					
800	NW08HF	100	100	85	40
	NW08HB	200	150	100	35
1200	NW12HF	100	100	85	40
	NW12HB	200	150	100	35
1600	NW16HF	100	100	85	40
	NW16HB	200	150	100	35
2000	NW20HF	100	100	85	40
	NW20HB	200	150	100	35
2500	NW25HF	100	100	85	65
	NW25HB	200	150	100	65
3000	NW30HF	100	100	85	65
	NW30HB	200	150	100	65
<b>Y-Frame</b>					
4000	NW40HF	100	100	85	75
	NW40HB	200	150	100	75
5000	NW50HF	100	100	85	75
	NW50HB	200	150	100	75
6000	NW60HF	100	100	85	75
	NW60HB	200	150	100	75

<sup>1</sup> The withstand rating is the fault current (at rated voltage) that the switch will withstand without damage when protected by a circuit breaker with an equal continuous current rating.



## Cradle

Table 17 – T-, W-, and Y-Frame Circuit Breaker/Automatic Switch

Frame Rating (A)	Model Number		Interrupting Rating / Withstand Rating (kA)		
	Circuit Breaker	Switch	240 V	480 V	600 V
<b>T-Frame</b>					
800	NT08N	—	50	50	35
	NT08H	NT08HF	65	50	50
	NT08L1	—	100	65	—
	NT08L	NT08HB	200	100	—
	NT08LF	—	200	100	—
1200	NT12N	—	50	50	35
	NT12H	NT12HF	65	50	50
	NT12L1	—	100	65	—
	NT12L	NT12HB	200	100	—
	NT12LF	—	200	100	—
<b>W-Frame</b>					
800	NW08N	—	65	65	50
	NW08H	NW08HF	100	100	85
	NW08L	NW08HB	200	150	100
	NW08LF	—	200	150	100
1200	NW12N	—	65	65	50
	NW12H	NW12HF	100	100	85
	NW12L	NW12HB	200	150	100
	NW12LF	—	200	150	100
1600	NW16N	—	65	65	50
	NW16H	NW16HF	100	100	85
	NW16L	NW16HB	200	150	100
	NW16LF	—	200	150	100
2000	NW20N	—	65	65	50
	NW20H	NW20HF	100	100	85
	NW20L	NW20HB	200	150	100
	NW20LF	—	200	150	100
2500	NW25H	NW25HF	100	100	85
	NW25L	NW25HB	200	150	100
3000	NW30H	NW30HF	100	100	85
	NW30L	NW30HB	200	150	100
<b>Y-Frame</b>					
4000	NW40H	NW40HF	100	100	85
	NW40L	NW40HB	200	150	100
5000	NW50H	NW50HF	100	100	85
	NW50L	NW50HB	200	150	100
6000	NW60H	NW60HF	100	100	85
	NW60L	NW60HB	200	150	100

## Circuit Breaker/Cradle Connectors

For a complete connector set, order both the “Top” and “Bottom” connector kits.

**Table 18 – T-, W-, and Y-Frame Fixed and Drawout**

Connector	Frame Rating	Location	Kit Catalog Number <sup>1</sup>	
<b>T-Frame Fixed and Drawout</b>				
Front Connected Flat (FCF)	800–1200 A	Top	SFCF12	
		Bottom	SFCF12	
Rear Connected T Horizontal/Vertical (RCTH/RCTV)	800–1200 A	Top	SRCTV12	
		Bottom	SRCTV12	
Rear Connected T Vertical (RCTV) + Heat Sink <sup>2</sup>	1600 A	Top	SRCTV16U	
		Bottom	SRCTV16U	
<b>W- and Y- Frame Fixed</b>				
Front Connected Flat (FCF)	800–2000 A	Top	SFCF20FT	
		Bottom	SFCF20FB	
Front Connected T (FCT)	800–3000 A	Top	SFCT30	
		Bottom	SFCT30B	
Rear Connected T Horizontal/Vertical (RCTH /RCTV)	800–2000 A	Top	SRCTV20	
		Bottom	SRCTV20	
	2500–3000 A	Top	SRCTV30	
		Bottom	SRCTV30	
	4000–5000 A	Top	SRCTV50	
		Bottom	SRCTV50	
	6000 A	Top	SRCTV60	
		Bottom	SRCTV60	
<b>W- and Y- Frame Drawout</b>				
Front Connected Flat (FCF)	800–2000 A	Top	SFCF20T	
		Bottom	SFCF20B	
	4000 A	Top	SFCF40	
		Bottom	SFCF40	
Front Connected T (FCT)	800–3000 A	Top	SFCT30	
		Bottom	SFCT30	
	4000 A	Top	SFCT50	
		Bottom	SFCT50	
	Rear Connected T Horizontal/Vertical (RCTH /RCTV)	800–2000 A	Top	SRCTV20
			Bottom	SRCTV20
2500–3000 A		Top	SRCTV30	
		Bottom	SRCTV30	
4000 A	Top	SRCTV50		
	Bottom	SRCTV50		
Rea Connected T Vertical (RCTV)	6000 A	Top	SRCTV60	
		Bottom	SRCTV60	

<sup>1</sup> For a four-pole connector kit, add the suffix (4) to the kit number (e.g. SFCF20T4).

<sup>2</sup> Not available for drawout circuit breakers.

**ArcBlok Circuit Breakers Basic Block**

**Table 19 – W- and Y-Frame ArcBlok Circuit Breaker**

Frame Rating (A)	Model Number	Interrupting Rating (kA)			Sensor Plug (A)
		240 V	480 V	600 V	
<b>W-Frame</b>					
800	NW08N	65	65	50	100, 250, 400, 600, 800
	NW08H	100	100	85	
	NW08L	200	150	100	
	NW08LF <sup>1</sup>	200	150	100	
1200	NW12N	65	65	50	600, 800, 1000, 1200
	NW12H	100	100	85	
	NW12L	200	150	100	
	NW12LF <sup>1</sup>	200	150	100	
1600	NW16N	65	65	50	800, 1000, 1200, 1600
	NW16H	100	100	85	
	NW16L	200	150	100	
	NW16LF <sup>1</sup>	200	150	100	
2000	NW20N	65	65	50	1000, 1200, 1600, 2000
	NW20H	100	100	85	
2500	NW25H	100	100	85	1200, 1600, 2000, 2500
	NW25L	200	150	100	
3000	NW30H	100	100	85	1600, 2000, 2500, 3000
	NW30L	200	150	100	
<b>Y-Frame</b>					
4000	NW40H	100	100	85	2000, 2500, 3000, 4000
	NW40L	200	150	100	
5000	NW50H	100	100	85	2500, 3000, 4000, 5000
	NW50L	200	150	100	

<sup>1</sup> Tested to show the arc flash hazard risk category a referenced in NFPA 70E.

**Table 20 – W- and Y-Frame ArcBlok Automatic Switch**

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) <sup>1</sup>			Instantaneous Override (kA RMS)
		240 V	480 V	600 V	
<b>W-Frame</b>					
800	NW08HF	100	100	85	40
	NW08HB	200	150	100	35
1200	NW12HF	100	100	85	40
	NW12HB	200	150	100	35
1600	NW16HF	100	100	85	40
	NW16HB	200	150	100	35
2000	NW20HF	100	100	85	40
	NW20HB	200	150	100	35
2500	NW25HF	100	100	85	65
	NW25HB	200	150	100	65
3000	NW30HF	100	100	85	65
	NW30HB	200	150	100	65
<b>Y-Frame</b>					
4000	NW40HF	100	100	85	75
	NW40HB	200	150	100	75
5000	NW50HF	100	100	85	75
	NW50HB	200	150	100	75

<sup>1</sup> The withstand rating is the fault current (at rated voltage) that the switch will withstand without damage when protected by a circuit breaker with an equal continuous current rating.

## ArcBlok Cradle/Connectors

See Table 18 for Connectors for the ArcBlok cradles.

**Table 21 – Cradle for W- and Y-Frame ArcBlok Circuit Breaker / Automatic Switch**

Frame Rating (A)	Model Number		Interrupting Rating/ Withstand Rating (kA)		
	Circuit Breaker	Switch	240 V	480 V	600 V
<b>W-Frame</b>					
800	NW08N	—	65	65	50
	NW08H	NW08HF	100	100	85
	NW08L	NW08HB	200	150	100
	NW08LF	—	200	150	100
1200	NW12N	—	65	65	50
	NW12H	NW12HF	100	100	85
	NW12L	NW12HB	200	150	100
	NW12LF	—	200	150	100
1600	NW16N	—	65	65	50
	NW16H	NW16HF	100	100	85
	NW16L	NW16HB	200	150	100
	NW16LF	—	200	150	100
2000	NW20N	—	65	65	50
	NW20H	NW20HF	100	100	85
2500	NW25H	NW25HF	100	100	85
	NW25L	NW25HB	200	150	100
3000	NW30H	NW30HF	100	100	85
	NW30L	NW30HB	200	150	100
<b>Y-Frame</b>					
4000	NW40H	NW40HF	100	100	85
	NW40L	NW40HB	200	150	100
5000	NW50H	NW50HF	100	100	85
	NW50L	NW50HB	200	150	100

## UL 489 Rated DC Circuit Breakers

Tested to UL 489 Supplement SC

**Table 22 – Variable Trip—Fixed and Drawout Circuit Breakers (UL 489 DC)**

Frame Rating (A)	Model Number	Interrupting Rating (kA) 500 Vdc (max 600 Vdc unloaded)
<b>W-Frame, Type N</b>		
800	NW08NDC	35
1200	NW12NDC	35
1400	NW14NDC	35
1600	NW16NDC	35
2000	NW20NDC	35
2500	NW25NDC	35
3000	NW30NDC	35
4000	NW40NDC	35
<b>W-Frame, Type H</b>		
800	NW08HDC	85
1200	NW12HDC	85
1400	NW14HDC	85
1600	NW16HDC	85
2000	NW20HDC	85
2500	NW25HDC	85
3000	NW30HDC	85
4000	NW40HDC	85

**NOTE:** All UL rated DC Masterpact circuit breakers are Version C, 2-pole and Version C1 split or C1 series 3-pole circuit breakers. See catalog 0613CT0501.

Fixed circuit breaker is provided with connectors for Version C, C1 split, and C1 series and there are no optional connectors. Connectors can be rotated from vertical to horizontal.

Trip Units and Connectors are included in Basic Block Price.

Most electrical and mechanical accessories are the same as the AC circuit breaker.

**Table 23 – Fixed Trip—Fixed and Drawout Circuit Breakers (UL 489 DC)**

Frame Rating (A)	Model Number	Interrupting Rating (kA) 500 Vdc (max 600 Vdc unloaded)
<b>W-Frame, Type N</b>		
1000	NW10NDC	35
1200	NW12NDC	35
1400	NW14NDC	35
1600	NW16NDC	35
2000	NW20NDC	35
2500	NW25NDC	35
3000	NW30NDC	35
4000	NW40NDC	35
<b>W-Frame, Type H</b>		
1000	NW10HDC	85
1200	NW12HDC	85
1400	NW14HDC	85
1600	NW16HDC	85
2000	NW20HDC	85
2500	NW25HDC	85
3000	NW30HDC	85
4000	NW40HDC	85

**NOTE:** All UL rated DC Masterpact circuit breakers are Version C, 2-pole and Version C1 split or C1 series 3-pole circuit breakers. See catalog 0613CT0501.

Fixed circuit breaker is provided with connectors for Version C, C1 split, and C1 series and there are no optional connectors. Connectors can be rotated from vertical to horizontal.

Trip Units and Connectors are included in Basic Block Price.

Most electrical and mechanical accessories are the same as the AC circuit breaker.

**UL 489 Rated DC Circuit Breaker Cradles**

Tested to UL 489 Supplement SC

**Table 24 – Cradle for DC Drawout Circuit Breakers**

Frame Rating (A)	Model Number	Interrupting Rating (kA) 500 Vdc (max 600 Vdc unloaded)
<b>W-Frame, Type N</b>		
800	NW08NDC	35
1200	NW12NDC	35
1400	NW14NDC	35
1600	NW16NDC	35
2000	NW20NDC	35
2500	NW25NDC	35
3000	NW30NDC	35
4000	NW40NDC	35
<b>W-Frame, Type H</b>		
800	NW08HDC	85
1200	NW12HDC	85
1400	NW14HDC	85
1600	NW16HDC	85
2000	NW20HDC	85
2500	NW25HDC	85
3000	NW30HDC	85
4000	NW40HDC	85



**IEC 60947-2 Rated****Basic Block****Table 25 – T-, W-, and Y-Frame Fixed Circuit Breaker**

Frame Rating (A)	Model Number	Interrupting Rating (kA)			Sensor Plug (A)
		240 V	440 V	690 V	
<b>T-Frame</b>					
800	NT08H1	42	42	42	250, 400, 630, 800
	NT08H2	50	50	42	
	NT08L1	150	130	25	
1000	NT10H1	42	42	42	400, 630, 800, 1000
	NT10H2	50	50	42	
	NT10L1	150	130	25	
1250	NT12H1	42	42	42	630, 800, 1000, 1250
	NT12H2	50	50	42	
1600	NT16H1	42	42	42	800, 1000, 1250, 1600
	NT16H2	50	50	42	
<b>W-Frame</b>					
800	NW08N1	42	42	42	400, 630, 800
	NW08H1	65	65	65	
	NW08H2	100	100	85	
1000	NW10N1	42	42	42	400, 630, 800, 1000
	NW10H1	65	65	65	
	NW10H2	100	100	85	
1250	NW12N1	42	42	42	630, 800, 1000, 1250
	NW12H1	65	65	65	
	NW12H2	100	100	85	
1600	NW16N1	42	42	42	800, 1000, 1250, 1600
	NW16H1	65	65	65	
	NW16H2	100	100	85	
2000	NW20H1	65	65	65	1000, 1250, 1600, 2000
	NW20H2	100	100	85	
2500	NW25H1	65	65	65	1250, 1600, 2000, 2500
	NW25H2	100	100	85	
3200	NW32H1	65	65	65	1600, 2000, 2500, 3200
	NW32H2	100	100	85	
4000	NW40H1	65	65	65	2000, 2500, 3200, 4000
	NW40H2	100	100	85	
<b>Y-Frame</b>					
4000	NW40bH1	100	100	100	2000, 2500, 3200, 4000
	NW40bH2	150	150	100	
5000	NW50H1	100	100	100	2500, 3200, 4000, 5000
	NW50H2	150	150	100	
6300	NW63H1	100	100	100	3200, 4000, 5000, 6300
	NW63H2	150	150	100	

**Table 26 – W-Frame Fixed Automatic Switch<sup>1</sup>**

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) <sup>2</sup>			Instantaneous Override (kA RMS)
		240 V	440 V	690 V	
<b>W-Frame</b>					
800	NW08HF	85	85	85	85
1000	NW10HF	85	85	85	85
1250	NW12HF	85	85	85	85
1600	NW16HF	85	85	85	85
2000	NW20HF	85	85	85	85
2500	NW25HF	85	85	85	85
3200	NW32HF	85	85	85	85
4000	NW40HF	85	85	85	85

<sup>1</sup> Switches are IEC 60947-3 rated.

<sup>2</sup> The withstand rating is the fault current (at rated voltage) that the switch will withstand without damage when protected by a circuit breaker with an equal continuous current rating.

**Table 27 – T-, W-, and Y-Frame Fixed Non-Automatic Switch<sup>1</sup>**

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) <sup>2</sup>			Short-Time (1s) Rating (kA RMS) <sup>3</sup>
		240 V	440 V	690 V	
<b>T-Frame</b>					
800	NT08HA	42	42	42	42
1000	NT10HA	42	42	42	42
1250	NT12HA	42	42	42	42
1600	NT16HA	42	42	42	42
<b>W-Frame</b>					
800	NW08NA	42	42	42	42
	NW08HA	50	50	50	50
1000	NW10NA	42	42	42	42
	NW10HA	50	50	50	50
1250	NW12NA	42	42	42	42
	NW12HA	50	50	50	50
1600	NW16NA	42	42	42	42
	NW16HA	50	50	50	50
2000	NW20HA	50	50	50	50
2500	NW25HA	50	50	50	50
3200	NW32HA	50	50	50	50
4000	NW40HA	50	50	50	50
<b>Y-Frame</b>					
4000	NW40bHA	85	85	85	85
5000	NW50HA	85	85	85	85
6300	NW63HA	85	85	85	85

<sup>1</sup> Switches are IEC 60947-3 rated.

<sup>2</sup> When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

<sup>3</sup> 0.5 s for T-frame.

## Drawout Devices

Table 28 – T-, W-, and Y-Frame Drawout Circuit Breaker

Frame Rating (A)	Model Number	Interrupting Rating (kA)				Sensor Plug (A)
		240 V	440 V	690 V	1150 V <sup>1</sup>	
<b>T-Frame</b>						
800	NT08H1	42	42	42	—	250, 400, 630, 800
	NT08H2	50	50	42	—	
	NT08L1	150	130	25	—	
1000	NT10H1	42	42	42	—	400, 630, 800, 1000
	NT10H2	50	50	42	—	
	NT10L1	150	130	25	—	
1250	NT12H1	42	42	42	—	630, 800, 1000, 1250
	NT12H2	50	50	42	—	
1600	NT16H1	42	42	42	—	800, 1000, 1250, 1600
	NT16H2	50	50	42	—	
<b>W-Frame</b>						
800	NW08N1	42	42	42	—	400, 630, 800
	NW08H1	65	65	65	—	
	NW08H2	100	100	85	—	
	NW08L1	150	150	100	—	
	NW08H10	—	—	—	50	
1000	NW10N1	42	42	42	—	400, 630, 800, 1000
	NW10H1	65	65	65	—	
	NW10H2	100	100	85	—	
	NW10L1	150	150	100	—	
	NW10H10	—	—	—	50	
1250	NW12N1	42	42	42	—	630, 800, 1000, 1250
	NW12H1	65	65	65	—	
	NW12H2	100	100	85	—	
	NW12L1	150	150	100	—	
	NW12H10	—	—	—	50	
1600	NW16N1	42	42	42	—	800, 1000, 1250, 1600
	NW16H1	65	65	65	—	
	NW16H2	100	100	85	—	
	NW16L1	150	150	100	—	
	NW16H10	—	—	—	50	
2000	NW20H1	65	65	65	—	1000, 1250, 1600, 2000
	NW20H2	100	100	85	—	
	NW20H3	150	150	100	—	
	NW20L1	150	150	100	—	
	NW20H10	—	—	—	50	
2500	NW25H1	65	65	65	—	1250, 1600, 2000, 2500
	NW25H2	100	100	85	—	
	NW25H3	150	150	100	—	
	NW25H10	—	—	—	50	

**Table 28 – T-, W-, and Y-Frame Drawout Circuit Breaker** (continued)

Frame Rating (A)	Model Number	Interrupting Rating (kA)				Sensor Plug (A)
		240 V	440 V	690 V	1150 V <sup>1</sup>	
3200	NW32H1	65	65	65	—	1600, 2000, 2500, 3200
	NW32H2	100	100	85	—	
	NW32H3	150	150	100	—	
	NW32H10	—	—	—	50	
4000	NW40H1	65	65	65	—	2000, 2500, 3200, 4000
	NW40H2	100	100	85	—	
	NW40H3	150	150	100	—	
	NW40H10	—	—	—	50	

**Y-Frame**

4000	NW40bH1	100	100	100	—	2000, 2500, 3200, 4000
	NW40bH2	150	150	100		
5000	NW50H1	100	100	100	—	2500, 3200, 4000, 5000
	NW50H2	150	150	100		
6300	NW63H1	100	100	100	—	3200, 4000, 5000, 6300
	NW63H2	150	150	100		

<sup>1</sup> 1000 V for T-frame.**Table 29 – W-Frame Drawout Automatic Switch<sup>1</sup>**

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) <sup>2</sup>				Instantaneous Override (kA RMS)
		240 V	440 V	690 V	1150 V	
<b>W-Frame</b>						
800	NW08HF	85	85	85	—	85
1000	NW10HF	85	85	85	—	85
1250	NW12HF	85	85	85	—	85
1600	NW16HF	85	85	85	—	85
2000	NW20HF	85	85	85	—	85
2500	NW25HF	85	85	85	—	85
3200	NW32HF	85	85	85	—	85
4000	NW40HF	85	85	85	—	85

<sup>1</sup> Switches are IEC 60947-3 rated.<sup>2</sup> The withstand rating is the fault current (at rated voltage) that the switch will withstand without damage when protected by a circuit breaker with an equal continuous current rating.

**Table 30 – T-, W-, and Y-Frame Drawout Non-Automatic Switch<sup>1</sup>**

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) <sup>2</sup>				Short-Time (1s) Rating (kA RMS) <sup>3</sup>
		240 V	440 V	690 V	1150 V <sup>4</sup>	
<b>T-Frame</b>						
800	NT08HA	42	42	42	—	42
1000	NT10HA	42	42	42	—	42
1250	NT12HA	42	42	42	—	42
1600	NT16HA	42	42	42	—	42
<b>W-Frame</b>						
800	NW08NA	42	42	42	—	42
	NW08HA	50	50	50	—	50
	NW08HA10	—	—	—	50	50
1000	NW10NA	42	42	42	—	42
	NW10HA	50	50	50	—	50
	NW10HA10	—	—	—	50	50
1250	NW12NA	42	42	42	—	42
	NW12HA	50	50	50	—	50
	NW12HA10	—	—	—	50	50
1600	NW16NA	42	42	42	—	42
	NW16HA	50	50	50	—	50
	NW16HA10	—	—	—	50	50
2000	NW20HA	50	50	50	—	50
	NW20HA10	—	—	—	50	50
2500	NW25HA	50	50	50	—	50
	NW25HA10	—	—	—	50	50
3200	NW32HA	50	50	50	—	50
	NW32HA10	—	—	—	50	50
4000	NW40HA	50	50	50	—	50
	NW40HA10	—	—	—	50	50
<b>Y-Frame</b>						
4000	NW40bHA	85	85	85	—	85
5000	NW50HA	85	85	85	—	85
6300	NW63HA	85	85	85	—	85

<sup>1</sup> Switches are IEC 60947-3 rated.

<sup>2</sup> When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

<sup>3</sup> 0.5 s for T-frame.

<sup>4</sup> 1000 V for T-frame.

## IEC 60947-2 Rated Cradle

Table 31 – T-, W-, and Y-Frame Circuit Breaker/Switch

Frame Rating (A)	T-Frame Number		W-Frame Number		Y-Frame Number	
	Circuit Breaker	Switch	Circuit Breaker	Switch	Circuit Breaker	Switch
800	—	—	NW08N1	NW08NA	—	—
	NT08H1	NT08HA	NW08H1	NW08HA	—	—
	—	—	NW08H2	NW08HF	—	—
	NT08H10	NT08HA10	NW08H10	NW08HA10	—	—
	NT08L1	—	NW08L1	—	—	—
1000	—	—	NW10N1	NW08NA	—	—
	NT10H1	NT10HA	NW10H1	NW08HA	—	—
	—	—	NW10H2	NW08HF	—	—
	NT10H10	NT10HA10	NW10H10	NW08HA10	—	—
	NT10L1	—	NW10L1	—	—	—
1250	—	—	NW12N1	NW08NA	—	—
	NT12H1	NT12HA	NW12H1	NW08HA	—	—
	—	—	NW12H2	NW08HF	—	—
	NT12H10	NT12HA10	NW12H10	NW08HA10	—	—
	—	—	NW12L1	—	—	—
1600	—	—	NW16N1	NW08NA	—	—
	NT16H1	NT16HA	NW16H1	NW08HA	—	—
	—	—	NW16H2	NW08HF	—	—
	NT16H10	NT16HA10	NW16H10	NW08HA10	—	—
	—	—	NW16L1	—	—	—
2000	—	—	NW20H1	NW20HA	—	—
	—	—	NW20H2	NW20HF	—	—
	—	—	NW20H10	NW20HA10	—	—
	—	—	NW20H3	—	—	—
	—	—	NW20L1	—	—	—
2500	—	—	NW25H1	NW25HA	—	—
	—	—	NW25H2	NW25HF	—	—
	—	—	NW25H10	NW25HA10	—	—
	—	—	NW25H3	—	—	—
3200	—	—	NW32H1	NW32HA	—	—
	—	—	NW32H2	NW32HF	—	—
	—	—	NW32H10	NW32HA10	—	—
	—	—	NW32H3	—	—	—
4000	—	—	NW40H1	NW40HA	NW40bH1	NW40bHA
	—	—	NW40H2	NW40HF	NW40bH2	—
	—	—	NW40H10	NW40HA10	—	—
	—	—	NW40H3	—	—	—
5000	—	—	—	—	NW50H1	NW50HA
	—	—	—	—	NW50H2	—
6300	—	—	—	—	NW63H1	NW63HA
	—	—	—	—	NW63H2	—

## Circuit Breaker/Cradle Connectors

For a complete connector set, order both the “Top” and “Bottom” connector kits.

**Table 32 – T-Frame**

Connector	Frame Rating	Location	Kit Catalog Number <sup>1</sup>
<b>Fixed Circuit Breaker Connectors</b>			
Front Connected Flat (FCF)	800–1600A Fixed Only	Top	SFCF16F
		Bottom	SFCF16F
Rear Connected T Horizontal/Vertical (RCTH/RCTV)	800–1600A Fixed Only	Top	SRCTV16
		Bottom	SRCTV16
<b>Drawout Circuit Breaker Cradle Connectors</b>			
Front Connected Flat (FCF)	800–1600A Drawout Only	Top	SFCF16T
		Bottom	SFCF16B
Rear Connected T Horizontal/Vertical (RCTH/RCTV)	800–1600A Drawout Only	Top	SRCTV16
		Bottom	SRCTV16
<b>Drawout and Fixed Circuit Breaker Connectors</b>			
Rear Spreader Adapter	800–1600A	Top	SRSA16
		Bottom	SRSA16
Rear T Adapter	800–1600A	Top	SRTA16
		Bottom	SRTA16
Rear Flat Adapter	800–1600A	Top	SRFA16
		Bottom	SRFA16

<sup>1</sup> For a four-pole connector kit, add (4) to the end of the catalog number (e.g. SFCF32T4).

**Table 33 – W/Y-Frame**

Connector	Frame Rating	Location	Kit Catalog Number <sup>1</sup>
<b>Fixed Circuit Breaker Connectors</b>			
Front Connected Flat (FCF)	800–3200 A Fixed Only	Top	SFCF32T
		Bottom	SFCF32B
<b>Drawout Circuit Breaker Cradle Connectors</b>			
Front Connected Flat (FCF)	800–3200 A Drawout Only	Top	SFCF32
		Bottom	SFCF32
<b>Drawout and Fixed Circuit Breaker Connectors</b>			
Rear Connected T Horizontal/Vertical (RCTH/RCTV)	800–3200 A	Top	SRCTV32
		Bottom	SRCTV32
	5000 A <sup>2</sup>	Top	SRCTV50E
		Bottom	SRCTV50E
Rear Connected T Horizontal (RCTH)	4000 A	Top	SRCTH40
		Bottom	SRCTH40
Rear Connected T Vertical (RCTV)	4000 A	Top	SRCTV40
		Bottom	SRCTV40
	6300 A	Top	SRCTV63
		Bottom	SRCTV63

<sup>1</sup> For a four-pole connector kit, add (4) to the end of the catalog number (e.g. SFCF32T4).

<sup>2</sup> NW40b circuit breakers use 5000 A connectors.

## IEC 60947-2 Rated DC Circuit Breakers and Non-Automatic Switches

Tested to IEC 60947 Standards

IEC 60947-2 Rated (DC Circuit Breakers)

**Table 34 – Fixed and Drawout Circuit Breakers**

Frame Rating (A)	Model Number	Connection Version	Icu KA for U = 500 Vdc - L/R ≤ 15 ms
<b>W- Frame</b>			
<b>Type N</b>			
1000	NW10NDC	C	35
2000	NW20NDC	C	35
4000	NW40NDC	C	35
<b>Type H</b>			
1000	NW10HDC	C	85
1000	NW10HDC	D	85
1000	NW10HDC	E	85
2000	NW20HDC	C	85
2000	NW20HDC	D	85
2000	NW20HDC	E	85
4000	NW40HDC	C	85
4000	NW40HDC	D	85
4000	NW40HDC	E	85

**NOTE:** IEC rated DC Masterpact circuit breakers (H rated) can have connectors version C, D or E, 3-pole circuit breakers. See catalog 0613CT0501. Trip units and connectors are included. Most electrical and mechanical accessories are the same as the AC circuit breaker.

## IEC 60947-3 Rated DC Non-Automatic Switch

**Table 35 – Fixed and Drawout Non-Automatic Switch**

Frame Rating (A)	Model Number	Connection Version	Icw KA for U = 500 Vdc
<b>W- Frame</b>			
<b>Type HA</b>			
1000	NW10HADC	C	85
1000	NW10HADC	D	85
1000	NW10HADC	E	85
2000	NW20HADC	C	85
2000	NW20HADC	D	85
2000	NW20HADC	E	85
4000	NW40HADC	C	85
4000	NW40HADC	D	85
4000	NW40HADC	E	85

**NOTE:** IEC rated DC Masterpact non-automatic switches (HA rated) can have connectors version C, D or E, three-pole non-automatic switch. See catalog 0613CT0501. Connectors are included. Most electrical and mechanical accessories are the same as the AC circuit breakers.



## IEC 60947-2 Rated DC Circuit Breakers

Table 36 – Cradle (DC Products)

Frame Rating (A)	Model Number	Connection Version	Icu KA for U = 500 Vdc - L/R ≤ 15 ms
<b>W-Frame</b>			
<b>Type N</b>			
1000	NW10NDC	C	35
2000	NW20NDC	C	35
4000	NW40NDC	C	35
<b>Type H</b>			
1000	NW10HDC	C	85
1000	NW10HDC	D	85
1000	NW10HDC	E	85
2000	NW20HDC	C	85
2000	NW20HDC	D	85
2000	NW20HDC	E	85
4000	NW40HDC	C	85
4000	NW40HDC	D	85
4000	NW40HDC	E	85

**NOTE:** IEC rated DC Masterpact cradles (H rated) can have connectors version C, D or E, three-pole circuit breakers. See catalog 0613CT0501. Connectors are included.  
Most electrical and mechanical accessories are the same as the AC cradle.

## IEC 60947-3 Rated DC Cradles

Table 37 – Cradle (DC Products)

Frame Rating (A)	Model Number	Connection Version	Icw KA for U = 500 Vdc
<b>W- Frame Type HA</b>			
1000	NW10HADC	C	85
1000	NW10HADC	D	85
1000	NW10HADC	E	85
2000	NW20HADC	C	85
2000	NW20HADC	D	85
2000	NW20HADC	E	85
4000	NW40HADC	C	85
4000	NW40HADC	D	85
4000	NW40HADC	E	85

**NOTE:** IEC rated DC Masterpact cradles (HA rated) can have connectors version C, D or E, three-pole non-automatic switch. See catalog 0613CT0501. Connectors are included.  
Most electrical and mechanical accessories are the same as the AC cradle.

## Trip Unit and Options

**Table 38 – Trip Units**

Model	Protection	Additional Features	Field-Installable Catalog Number <sup>1</sup>
2.0 (IEC only)	LS0	None	S132R
3.0 (UL/ANSI only)	LI		S131A
5.0	LSI		S133A
2.0A (IEC only)	LS0	Ammeter	S142R <sup>2</sup>
3.0A (UL/ANSI only)	LI		S141A <sup>2</sup>
5.0A	LSI		S143A <sup>2</sup>
6.0A	LSIG		S144A <sup>2</sup>
5.0P	LSI	Metering,	S163A <sup>2,3</sup>
6.0P	LSIG	Advanced Protection	S164A <sup>2,3</sup>
5.0H	LSI	Metering,	S173A <sup>2,3</sup>
6.0H	LSIG	Advanced Protection & Harmonic Analysis	S174A <sup>2,3</sup>

<sup>1</sup> The standard rating plug supplied with a trip unit will be the "A" rating plug. To specify an alternative adjustable rating plug, please add the letter designation to the end of the catalog number. Please refer to following table for a complete listing of adjustable settings available with each plug. (Example: S143B would specify a "B" rating plug instead of the standard "A" plug.) Use suffix "N" if no rating plug is required.

<sup>2</sup> When replacing a basic trip unit with type A (Ammeter), P (Power metering) or H (Harmonic analysis) trip unit, order the twelve-pin connector kit S33101.

<sup>3</sup> Requires circuit breaker Communications Module.

**Table 39 – Trip Unit Adjustable Rating Plug**

Standard	Options	Settings (Tolerance: 1.05–1.2)	Field-Installable Kit	
			Trip Unit Character 5	Catalog Number
UL/ANSI	Plug "A" <sup>1</sup>	.4 - .45 - .50 - .60 - .63 - .7 - .8 - .9 - 1	A	S48818
	Plug "B"	.4 - .44 - .50 - .56 - .63 - .75 - .88 - .95 - 1	B	S48819
	Plug "C"	.42 - .50 - .53 - .58 - .67 - .75 - .83 - .95 - 1	C	S48820
	Plug "D"	.4 - .48 - .64 - .7 - .8 - .9 - .93 - .95 - 1	D	S48836
	Plug "E"	.60 - .70 - .75 - .80 - .85 - .90 - .93 - .95 - 1	E	S48837
	Plug "F"	.84 - .86 - .88 - .9 - .92 - .94 - .96 - .98 - 1	F	S48838
	Plug "G"	.66 - .68 - .7 - .72 - .74 - .76 - .78 - .8 - .82	G	S48839
	Plug "H"	.48 - .5 - .52 - .54 - .56 - .58 - .6 - .62 - .64	H	S4884
IEC	Standard	.4 - .5 - .6 - .7 - .8 - .9 - .95 - .98 - 1	R	S33542
	Lower Range	.4 - .45 - .5 - .55 - .6 - .65 - .7 - .75 - .8	L	S33543
	Upper Range	.8 - .82 - .85 - .88 - .9 - .92 - .95 - .98 - 1	T	S33544
	OFF	No long time protection	P	S33545

<sup>1</sup> Standard offer.

A Zone-Selective Interlocking (ZSI) system with/without MDGF/SGR may require a Restraint Interface Module (RIM), catalog number S48890 (120 Vac/24 Vdc) or S48895 (240 Vac/24 Vdc). See catalog 0613CT0001, *Masterpact NT/NW Universal Power Circuit Breaker* for details.

**Table 40 – Trip Unit Options**

Description <sup>1</sup>
CT Characterization
Automatic Reset

<sup>1</sup> Available as factory-installed circuit breaker option only.  
See catalog 0613CT0001, *Masterpact Low-Voltage Power Circuit Breakers* for details.

**Table 41 – Circuit Breaker Communications Module**

Communications Type	Catalog Number	
	Fixed	Drawout
NW MODBUS®	S47405	S48384
NT MODBUS	S48188	S47485

**NOTE:** Standard for “P” trip unit; optional for “A” trip unit.

**Table 42 – Communication Modules, Display Screens and Wiring**

Description	Catalog Number
IFM Modbus-SL Interface for LV Circuit Breaker	STRV00210
Stacking Accessory (10 Stacking Accessories for IFM)	TRV00217
IFE Interface (Ethernet Module)	LV434010
IFE Interface + Gateway (Ethernet and Modbus Gateway)	LV434011
Input Output (IO) Module	L434063
Breaker ULP Cord (L- 0.35 m (1.15 ft.) BCM to coms)	LV434195
Breaker ULP Cord (L- 1.3 m (4.26 ft.) BCM to coms)	LV434196
Breaker ULP Cord (L- 3 m (9.84 ft.) BCM to coms)	LV434197
Cable L = 0.3 m (0.98 ft), 10 cables (Male to male RJ45)	TRV00803
Cable L = 0.6 m (1.97 ft), 10 cables (Male to male RJ45)	TRV00806
Cable L = 1 m (3.28 ft), 5 cables (Male to male RJ45)	TRV00810
Cable L = 2 m (6.56 ft), 5 cables (Male to male RJ45)	TRV00820
Cable L = 3 m (9.84 ft), 5 cables (Male to male RJ45)	TRV00830
Cable L = 5 m (16.40 ft), 1 cable (Male to male RJ45)	TRV00850
RJ45 female/female connector, 10 connectors	TRV00870
ULP line terminator, 10 terminators	TRV00880
Insulated ULP module and circuit breaker cord (for system voltage greater than 480 Vac). Cord with female socket.	—
L = 1.3 m (4.26 ft.)	S434204
L = 3 m (9.84 ft.)	S434303
2-wire RS 485 isolated repeater module	STRV00211
Modbus line terminator, 2 terminators	VW3A8306DRC
FDM121 (1 circuit breaker to 1 front display)	STRV00121
Surface-mounting accessory for FDM	TRV00128
FDM128 (8 circuit breakers to 1 front display)	LV434128

## Neutral Sensor<sup>1</sup>

**Table 43 – T-Frame Circuit Breakers**

External neutral sensor for 3-phase, 4-wire residual ground fault system (or for neutral current monitoring).

NT Circuit Breaker Sensor Plug	External Neutral Sensor for General Use	External Neutral Sensor for use in Square D Panelboards	External Neutral Sensor for use in Square D Switchboards
<b>External neutral sensor for circuit breakers with standard neutral protection</b>			
100–250 A	S33575	S33924	S33926
400–1600 A	S33576	S33925	S33927
<b>External neutral sensor for circuit breakers with oversized neutral protection<sup>1</sup></b>			
100 A	S33575	S33924	S33926
250 A	N/A	N/A	N/A
400–1000 A	S33576	S33925	S33927
1200/1250 A	S48896	N/A	NA
1600 A	S48182	N/A	NA

<sup>1</sup> Oversized neutral protection = 1.6 I<sub>r</sub> where I<sub>r</sub> = long time pick-up.

<sup>1</sup> These neutral sensors include their wiring harness. To order this harness as a spare part order catalog no. NCTWIRING.

**Table 44 – W/Y-Frame Circuit Breakers**

External neutral sensor for 3-phase, 4-wire residual ground fault system (or for neutral current monitoring) and external sensor for Modified Differential Ground Fault (MDGF) or Source Ground Return (SGR) system.

Frame	Sensor Plug (A)	External Neutral Sensor		PZ4 External Neutral Sensor (For use in PZ4 Switchgear)		MDGF/SGR Sensor <sup>1</sup>
		For Residual Ground Fault	For 3-Pole Circuit Breaker with Oversize Neutral Protection <sup>2</sup>	For Residual Ground Fault	For 3-Pole Circuit Breaker with Oversize Neutral Protection <sup>2</sup>	
W	100	S48916	S48916	S48902	S48902	
	250		N/A		N/A	
	400	S34036	S34036	S48903	S48903	S33579
	600/630					
	800					
	1000		S48896			
	1200/1250		S48182			
	1600					
	2000	S48896	S48182	S48182	N/A	
	2500	S48182	N/A			
	3000					
	3200					
	4000					
					N/A	
Y	2000	S48897 <sup>3</sup>	S48897 <sup>3</sup>	S48898 <sup>3</sup>	S48898 <sup>3</sup>	S33579
	2500					
	3000					
	3200					
	4000		N/A	S48897 <sup>3</sup>	N/A	
	5000					
	6000					
	6300					N/A

<sup>1</sup> Four MDGF sensors (phase + 1 neutral) are required for W-frame; eight MDGF sensors are required for Y-frame. For SGR system only one sensor (neutral) is required for W-frame; two sensors for Y-Frame. A MDGF/SGR ground-fault interface module (Cat. no. S48891) is also required for each circuit breaker.

<sup>2</sup> Oversized neutral protection = 1.6 I<sub>r</sub> where I<sub>r</sub> = long time pick-up.

<sup>3</sup> Kit includes qty. (2) neutral sensors.

## Electrical Accessories

Each electrical accessory kit includes the necessary push-in secondary disconnects for a drawout circuit breaker.

**Table 45 – Sensor Plug**

Lowest possible sensor plug is 50% of frame rating except for the 100 and 250 A plugs.

Rating (A)	Catalog Number	Rating (A)	Catalog Number	Rating (A)	Catalog Number
100 <sup>1</sup>	S47051	1000	S33093	3000	S48825
250 <sup>1</sup>	S47052	1200	S48824	3200	S33984
—	—	—	—	4000 <sup>2</sup>	S47820
400	S47053	1250	S33094	—	—
600	S48823	1600	S33095	—	—
630	S33091	2000	S33982	—	—
800	S33092	2500	S33983	—	—

<sup>1</sup> Cannot be installed into a circuit breaker with original sensor plug higher than 250 A. Likewise a circuit breaker with original sensor plug of 100 A or 250 A cannot be replaced with a sensor plug higher than 250 A.

<sup>2</sup> IEC and ANSI W-frame.

**Table 46 – Special Y-Frame Sensor Plug**

Rating (A)	Catalog Number
2000	S47821
2500	S47822
3000	S48826
3200	S47823
4000	S47824
5000	S47825
6000	S48827
6300	S47826

**Table 47 – Auxiliary and Alarm Contacts, Programmable Contact Module, Electrical Close Pushbutton**

Description	T-Frame		W- & Y-Frame	
	Fixed	Drawout	Fixed	Drawout
1a/1b Form C Auxiliary Contact <sup>1</sup>	S47042	S47043	—	—
Low Level 1a/1b Form C Auxiliary Contact	S47339	S33806	—	—
4a/4b Form C Auxiliary Contact (OF) <sup>2</sup>	—	—	S48198	S48468
4a/4b Form C Auxiliary Contact (OF) with Actuator <sup>2</sup>	—	—	S48859	S48860
1a/1b Form C Second Trip Alarm Contact (SDE2) <sup>3</sup>	S47340	S47430	S48200	S48475
Low Level 1a/1b Form C Second Trip Alarm Contact <sup>3</sup>	S47341	S47431	S48201	S48476
1a/1b Form C Ready-to-Close Contact (PF)	S47342	S47432	S47342	S48469
Low Level 1a/1b Form C Ready-to-Close Contact	S47343	S47433	S47343	S48470
2 Programmable Contact Module (M2C) <sup>4</sup>	S47403	S47483	S47403	S48382
6 Programmable Contact Module (M6C) <sup>4</sup>	S47404	S47484	S47404	S48383
Electrical Close Pushbutton (BPFE)	S47512	S47512	S48534	

<sup>1</sup> 4a/4b standard on circuit breaker, information for replacement purpose only.

<sup>2</sup> Standard on circuit breaker, information for replacement purposes only.

<sup>3</sup> Incompatible with remote reset switch (RES).

<sup>4</sup> Type P or H trip unit required.

**Table 48 – Shunt Trip, Second Shunt Trip<sup>1</sup>, and Shunt Close**

Voltage 50/60 Hz	T-, W-, & Y-Frame Fixed	T-Frame Drawout	W- & Y-Frame Drawout
12 dc	S47359	S33809	S48490
24–30 ac/dc	S47360	S33810	S48491
48–60 ac/dc	S47361	S33811	S48492
100–130 ac/dc	S47362	S33812	S48493
200–240 ac/dc	S47363	S33813	S48494
277 ac	S47364	S33814	S48495
380–480 ac	S47365	S33815	S48496

<sup>1</sup> Incompatible with undervoltage coil.

**Table 49 – Shunt Trip and Shunt Close for Circuit Breaker with Communication**

Voltage 50/60 Hz	T-, W-, & Y-Frame Fixed	T-Frame Drawout	W- & Y-Frame Drawout
12 dc	S47320	S33791	S48457
24–30 ac/dc	S47321	S33792	S48458
48–60 ac/dc	S47322	S33793	S48459
100–130 ac/dc	S47323	S33794	S48460
200–240 ac/dc	S47324	S33795	S48461
277 ac	S47325	S33796	S48462
380–480 ac	S47326	S33797	S48463

**Table 50 – Undervoltage Trip<sup>1</sup>**

Voltage	T-, W-, & Y-Frame Fixed	T-Frame Drawout	W- & Y-Frame Drawout
<b>Instantaneous UV Trip (MN)</b>			
24–30 ac/dc	S47380	S33819	S48501
48–60 ac/dc	S47381	S33820	S48502
100–130 ac/dc	S47382	S33821	S48503
200–240 ac/dc	S47383	S33822	S48504
380–480 ac	S47385	S33824	S48506
<b>Adjustable Time Delay Module<sup>2</sup></b>			
48–60 ac/dc		S33680	
100–130 ac/dc		S33681	
200–240 ac/dc		S33682	
380–480 ac		S33683	
<b>Non-Adjustable Time Delay Module<sup>2</sup></b>			
100–130 ac/dc		S33684	
200–240 ac/dc		S33685	

<sup>1</sup> Incompatible with second shunt trip.

<sup>2</sup> For time delayed undervoltage trip, order the instantaneous UV trip + the time-delay module.



## Accessories

**Table 51 – Spring Charging Motor (MCH)**

Voltage	T-Frame		W- & Y-Frame	
	Fixed	Drawout	Fixed	Drawout
<b>Vac</b>				
48	S47391	S47461	S48207	S48522
100–130	S47395	S47465	S48211	S48526
200–240	S47396	S47466	S48212	S48527
277	S47398	S47468	S48213	S48528
380–415	S47398	S47468	S48214	S48529
440–480	S47400	S47470	S48215	S48530
<b>Vdc</b>				
24–30	S47390	S47460	S48206	S48521
48–60	S47391	S47461	S48207	S48522
100–130	S47392	S47462	S48208	S48523
200–250	S47393	S47463	S48209	S48524

**Table 52 – Remote Reset (RES)<sup>1</sup>**

Voltage (V)	T-Frame		W- & Y-Frame	
	Fixed	Drawout	Fixed	Drawout
110–130	S47344	S47434	S48202	S48472
200–240	S47345	S47435	S48203	S48473

<sup>1</sup> Incompatible with extra trip alarm switch (SDE2).

**Table 53 – Circuit Breaker Locking Options**

Description	One Lock		Two Locks (W/Y-Frame only)	
	T-Frame	W/Y-Frame	Identical	Different
Kirk Key Lock + Provision <sup>1</sup>	S48939	S48945	S48946	S48947
Provision for Kirk Key Lock <sup>1</sup>	S47517	S48542 <sup>2</sup>	—	—
Ronis Key Lock + Provision	S47521	S48549	S48550	S48551
Profalux Key Lock + Provision	S47519	S48545	S48546	S48547
Provision for Ronis Lock	S47516	S48541 <sup>2</sup>	—	—
Provision for Profalux Lock	S47515	S48541 <sup>2</sup>	—	—
Provision for Castell Lock	S47518	S48543 <sup>2</sup>	—	—
Padlock Attachment	S47514	S48539	—	—
Padlockable Open/Close Push Button Cover	S33897	S48536	—	—

<sup>1</sup> To order Kirk® key locks, please fill out the keylock order form from page 26.

<sup>2</sup> Can fit up to two locks.

**Table 54 – Miscellaneous Circuit Breaker Accessories**

Description	T-Frame	W- & Y-Frame
Mechanical Operation Counter	S33895	S48535
Door Escutcheon for Fixed Circuit Breaker <sup>1</sup>	S33718	S48601

<sup>1</sup> For replacement only, door escutcheon included with circuit breaker.

**Cradle Accessories****Table 55 – Cradle Communications Module (Use with 4-Wire Modbus Systems)**

Communications Type	Catalog Number
Modbus	S48377

**Table 56 – Input Output (IO) Module (Use with 2-Wire Modbus + ULP Systems)**

Communications Type	Catalog Number
Modbus and Universal Logic Plug (ULP)	LV434063

**Table 57 – ANSI C37/UL 1066/UL 489 Cradle Shutter, Secondary Disconnects Terminal Shield<sup>1</sup>**

Description	3-Pole	4-Pole
<b>T-Frame</b>		
Shutter	S48933	S48934
Secondary Disconnects Terminal Shield	S33763	S33764
<b>W-Frame</b>		
Shutter	65346	65347
Shutter Padlock Provision	65350	65350
Secondary Disconnects Terminal Shield	S48595	S48596
<b>Y-Frame</b>		
Shutter	65348	65349
Shutter Padlock Provision	65350	625350
Secondary Disconnects Terminal Shield	S48597	S48598

<sup>1</sup> See Table 63 for ArcBlok shutter.

**Table 58 – IEC 60947-2 Cradle Shutter, Secondary Disconnects Terminal Shield**

Description	3-Pole	4-Pole
<b>T-Frame</b>		
Shutter	S33765	S33766
Secondary Disconnects Terminal Shield	S33763	S33764
<b>W-Frame</b>		
Shutter <sup>1</sup>	S48587	S48589
Shutter Padlock Provision	S48591	S48591
Secondary Disconnects Terminal Shield	S48595	S48596
<b>Y-Frame</b>		
Shutter <sup>1</sup>	S48588	S48590
Shutter Padlock Provision (2 required)	S48591	S48591
Secondary Disconnects Terminal Shield	S48597	S48598

<sup>1</sup> Includes padlock provision.

**Table 59 – Cradle Position Switches (Cell Switches)**

Description	Catalog Number
<b>T-, W-, and Y-Frame</b>	
1a/1b Form C Connected/Test/Disconnected Switch	S33170
Low Level 1a/1b Form C Connected/Test/Disconnected Switch	S33171
<b>W- and Y-Frame</b>	
1a Connected/Test/Disconnected Switch (Ring Tongue)	S48929
1b Connected/Test/Disconnected Switch (Ring Tongue)	S48930
Set of 3 Cell Switch Actuating Arms <sup>1</sup>	S48560

<sup>1</sup> A set of three actuating arms is standard on the cradle. One actuating arm can operate up to three switches.

**Table 60 – Cradle Cell Keying and Cradle Position Locking**

Description	T-Frame	W/Y-Frame
Cell Keying Kit (all pins the same length)	S33767	S48562
Cell Keying Kit for W/Y-frame (pins of varying lengths) All production after December 2012	—	NWCELLKEY

**Key Locks—Kirk**

1 Kirk Lock <sup>1, 2</sup>	S48917	S48923
2 Identical Kirk Locks <sup>1, 2</sup>	S48918	S48924
2 Different Kirk Locks <sup>1, 2</sup>	S48919	S48925
Provision for 2 Kirk Locks	S33936	S48565
Provision for 1 Kirk Lock	S33772	—

**Key Locks—Ronis®/Profalux®**

1 Ronis Lock <sup>1</sup>	S33776	S48572
2 Identical Ronis Locks <sup>1</sup>	S33777	S48573
2 Different Ronis Locks <sup>1</sup>	S33778	S48574
1 Profalux Lock <sup>1</sup>	S33773	S48568
2 Identical Profalux Locks <sup>1</sup>	S33774	S48569
2 Different Profalux Locks <sup>1</sup>	S33775	S48570
Provision for 2 Ronis Locks	S33770	S48564
Provision for 2 Profalux Locks	S33769	S48564
Provision for 2 Castell® Locks	S33771	S48566

<sup>1</sup> Includes mounting provision.

<sup>2</sup> To order Kirk key locks, please fill out the keylock order form from page 26.

**Table 61 – Masterpact NW/NT Circuit Breaker Remote Racking**

Description	Cat. No.
Masterpact NW/NT Remote Racking Device <sup>1</sup>	NWNTMPRRT
Masterpact NW Remote Racking Device <sup>1</sup>	NWMPRRT
Masterpact NT Remote Racking Device <sup>1</sup>	NTMPRRT
Mounting Bracket Kit for NW Remote Racking (contains 10 mounting brackets)	S47100
Mounting Bracket Kit for NT Remote Racking (contains 10 mounting brackets)	S47104
Control Unit for NW Remote Racking <sup>2</sup>	S47101
30 ft Control Cable for NW Remote Racking <sup>2</sup>	S47102
Drive Shaft for NW Remote Racking <sup>2</sup>	S47103
Drive Shaft for NT Remote Racking <sup>2</sup>	S47103

<sup>1</sup> Unit comes with ten mounting brackets included.

<sup>2</sup> For replacement only.

**Table 62 – Cradle Miscellaneous Accessories**

Description	T-Frame	W/Y-Frame
Door Interlock Kit (VPEC)	S33786	S48579
Racking Interlock Kit (IBPO)	S33788	S48582
Door Escutcheon	S33857	685980
Transparent Cover	S33859	685981
Combined “Connected” and “Closed” Switch (1a/1b EF Switch)	N/A	S48477
Low Level EF Switch	N/A	S48478
Cable Door Interlock for Drawout Circuit Breakers	S33921	S48614
Cable Door Interlock for Fixed Circuit Breakers	S33920	S48614

**Table 63 – Spare Parts for ArcBlok UL/ANSI Masterpact NW Circuit Breakers, Switches, and Cradles**

Description	Cat. No.
ArcBlok Prepared Space Cassette (W-Frame)	65252
ArcBlok Prepared Space Cassette (Y-Frame)	65263
Shutter for ArcBlok Cradle (Qty: 3 for W-Frame, 6 for Y-Frame)	65261

**Table 64 – Cradle Metering CT Kit (set of 3)  
For use with UL and ANSI rated circuit breakers only. Not available with ArcBlok Technology.**

Sensor Plug (A)	Catalog Number
<b>W-Frame</b>	
250	SMCT250
400	SMCT400
600	SMCT600
800	SMCT800
1200	SMCT1200
1600	SMCT1600
2000	SMCT2000
2000	SMCT2000R <sup>1</sup>
2500	SMCT2500R
3000	SMCT3000R
3200	SMCT3200R
<b>Y-Frame</b>	
2000	SMCT2000Y
2500	SMCT2500Y
3000	SMCT3000Y
3200	SMCT3200Y
4000	SMCT4000Y
5000	SMCT5000Y
6000	SMCT6000Y

<sup>1</sup> For NW20L1/NW20L circuit breaker.

**Table 65 – Cluster Shield for Standard UL/ANSI Drawout Circuit Breakers  
(See Table 66 for ArcBlok Circuit Breaker Shields)**

ANSI Circuit Breakers	UL Circuit Breakers	Cat. No.
NW08N1 / H1 / H2 / H3 / HA / HF	NW08N / H / HF	65356
NW08L1 / L1F / HC	NW08L / LF, NW12L / LF / HB	65357
NW16N1 / H1 / H2 / H3 / HA / HF	NW16N / H / HF	65356
NW16L / L1F / HC	NW16L / LF / HB	65357
NW20H1 / H2 / H3 / HA / HF	NW20N / H / HF	65356
NW20L1 / L1F / HC	NW20LF	65357
—	NW20L / HB, NW25H / HF / L / HB	65356
NW32H1 / H2 / H3 / HA / HF	NW30H / HF / L / HB NW40BH / HF	65356
NW32L1 / HC	—	65356
NW40H2 / H3 / HA / HF	NW40H / HF	65356
NW40L1 / HC	NW40H / HF / L / HB	65356
NW50H2 / H3 / HA / HF	NW50H / HF	65356
NW50L1 / HC	NW50L / HB	65356
NW60H2 / H3 / HA / HF	NW60H / HF	65356
NW60L1 / HC	NW60L / HB	65356

**Table 66 – ArcBlok Shield for Drawout Circuit Breakers with ArcBlok Technology**

ANSI Circuit Breakers	UL Circuit Breakers	Cat. No.
NW08N1 / H1 / H2 / H3 / HA	NW08N / H / HF	65251
NW08L1 / L1F	NW08L / LF, NW12L / LF	65262
NW16N1 / H1 / H2 / H3 / HA	NW16N / H / HF	65251
NW16L / L1F	NW16L / LF	65262
NW20H1 / H2 / H3 / HA	NW20N / H / HF	65251
NW32H1 / H2 / H3 / HA	NW20L / LF, NW25H / HF / L	65251
NW32L1	NW30H / HF / L	65251
NW40H2 / H3 / HA	NW40H / HF	65251
NW40L1	NW40L	65251
NW50H2 / H3 / HA	NW50H / HF	65251
NW50L1	NW50L	65251
All prepared space cassettes	All prepared space cassettes	65251

**Table 67 – Secondary Disconnects Wiring Kit**

Type	Fixed	Drawout	
	T-, W-, & Y-Frame	T-Frame	W- & Y-Frame
Push-in Terminal Kit (3 Wires)	S47074	S33098	S47849
Push-in Terminal Kit (6 Wires)	S47075	S33099	S47850
Ring Tongue Kit 1a	N/A	N/A	S48912
Ring Tongue Kit 1b			S48913
Ring Tongue Kit 1a & 1b			S48914
Trip Unit 12-Pin Connectors	S33101	S33101	S33101
External Voltage Sensing Wiring Kit	S47506	S47507	S48533
NW Fixed Secondary Retention Kit (Pkg. 20)	NWSCRK		

**Table 68 – Finger Cluster and Cluster Tools**

Description	Catalog Number
Finger Cluster (Each)	S33166
Cluster Grease	S48899
Cluster Positioning Tool	S47542
Cluster Reset Tool	CLUSRETOOL
Cluster Service Kit <sup>1</sup>	CLUSTOOLSK

<sup>1</sup> Includes positioning tool, reset tool and a grease tube.

**Table 69 – Test Kit and External Power Supply Module**

Description	Catalog Number
Hand-Held Test Kit	S33594
Full-Function Test Kit	S33595
FFTK Report Generator Software	FFTKRPTV10
Seven-Pin Test Cable (for connection between test kit and trip unit) <sup>1</sup>	S48907
Two-Pin Test Cable (for connection between test kit and trip unit) <sup>2</sup>	S48908
230 Vac Filtered Power Cord <sup>3</sup>	S48856
120 Vac Filtered Power Cord <sup>3</sup>	S48855
Primary Injection Test Adapter <sup>4</sup>	S33937
NW Phoenix Primary Injection Kit	ULW10025
NW Multi Amp Primary Injection Kit	ULW10026
NW Primary Injection Shield Bumper (for use with Phoenix or Multi Amp kits on circuit breakers with cluster shields)	84958
NT Primary Injection Kit	ULW10027
Trip Unit Seal (6 pieces) <sup>5</sup>	MICROTUSEAL

<sup>1</sup> Used for testing Micrologic trip units. Included in the hand-held / full-function test kits. Kit for replacement only.

<sup>2</sup> Used for testing STR trip units. Included in the hand-held / full-function test kits. Kit for replacement only.

<sup>3</sup> Included in the full-function test kit. Kit for replacement only.

<sup>4</sup> Included in the hand-held test kit. Kit for replacement only.

<sup>5</sup> For compliance with NEC 240.6(c).

**Table 70 – 24 Vdc Power Supply and Battery Backup Modules  
(Not UL Listed)**

Description	Catalog Number
Power Supply with 24–30 Vdc Input	685823
Power Supply with 48/60 Vdc Input	685824
Power Supply with 125 Vdc Input	685825
Power Supply with 110–130 Vac Input	685826
Power Supply with 200–240 Vac Input	685827
Power Supply with 380–415 Vac Input	685829
Battery Backup (12 Hours)	685831
Trip Unit Battery for Trip Indicator Lights	S33593

**Table 71 – Lifting Device Kits**

Description	Catalog Number
Crossbar for W-Frame Circuit Breaker or Cradle	S48900
Crossbar for Y-Frame Circuit Breaker or Cradle	S48901
Set of Two Lifting Hooks	S48906

**Table 72 – Fixed Circuit Breaker Mounting Brackets (Set of 2)**

Description	Catalog Number
<b>W- and Y-Frame Only</b>	
Mounting Brackets for Horizontal Mount	S47828
Mounting Brackets for Vertical Mount	S47829

**Table 73 – Certified Test Reports<sup>1</sup>**

Test Report	Catalog Number <sup>2</sup>
Circuit Breaker	4804930501B
Cradle	4804930501C

<sup>1</sup> Certified test reports are standard for ANSI circuit breakers and cradles. Order certified test reports for UL and IEC products as desired.

<sup>2</sup> Circuit breaker/cradle serial number also required if report is ordered after circuit breaker/cradle is shipped.



**Table 74 – Source Changeover Interlocks**

Type of Interlock Kit	T-Frame Fixed <sup>1</sup>	T-Frame Drawout <sup>1</sup>	W- & Y- Frame
Rod Interlock Kit for Two Circuit Breakers <sup>2</sup>	NA	NA	S48612
Cable Interlock Kit for Two Circuit Breakers			
Cable Interlock <sup>3</sup>	NA	NA	S33209
Cable Mounting Plate	NA	NA	S47926
Cable Interlock Kit for three circuit breakers			
Three main circuit breakers <sup>2</sup>			S48610
Two main circuit breakers and one tie circuit breaker <sup>2</sup>			S48609
Two main circuit breakers and one generator circuit breaker <sup>2</sup>			S48608

<sup>1</sup> IEC only.

<sup>2</sup> Complete kit.

<sup>3</sup> Complete kit requires: (2) S47926 + (1) S33209 or  
(2) S33200 + (1) S33209 or  
(2) S33201 + (1) S33209.

**Table 75 – Miscellaneous Spare Parts for Masterpact™ NW Circuit Breakers**

Catalog Number	Description
S47935	Type S Arc Chute (each) for: UL: NW08—NW30 N/H/HF ANSI: NW08—NW32 N1/H1/H2/H3/HA IEC: NW08—NW40 N1/H1/H2/NA/HA/HF
S47936	Type G Arc Chute (each) for: UL: NW40—NW60 H/HF, NW20—NW60 L ANSI: NW40—NW50 H2/H3/HA, NW32—NW50 L1 IEC: NW50—NW63 H1/H2/HA, NW20—NW40 H3
S47937	Type B Arc Chute (each) for: UL: NW08—NW16 L ANSI: NW08—NW20 L1 IEC: NW08—NW20 L1
S47939	Faceplate Cover IEC Fixed & Drawout, UL/ANSI fixed
S47939U	Faceplate Cover UL/ANSI Drawout Non-Limiter
S47939L	Faceplate Cover UL/ANSI Drawout Limiter (L/L1 AIR)
S47940	Masterpact NW Spring Charging Handle
S47944	Masterpact NW Racking Handle
S47092	Masterpact NT Spring Charging Handle
S47098	Masterpact NT Racking Handle
64274	Cradle Interlock Defeat Tool
65253	UL/ANSI 2 Cluster Support
65254	UL/ANSI 3 Cluster Support
65255	UL/ANSI 4 Cluster Support
65256	UL/ANSI 6 Cluster Support
65257	UL/ANSI 10 Cluster Support
65258	UL/ANSI 4 Cluster Support Limiter
65259	UL/ANSI 6 Cluster Support Limiter
65260	UL/ANSI 10 Cluster Support Limiter
S48857	Cluster Support Mounting Tool <sup>1</sup>

<sup>1</sup> Required for mounting cluster support on standard Masterpact NW drawout circuit breaker. Tool is not required for ArcBlok circuit breakers.

## Masterpact MP/MC Retrofit Kits

These bus adapter kits will allow direct mechanical replacement of the old Masterpact MP/MC (UL/ANSI) with the Masterpact NW circuit breaker.

Order the corresponding Masterpact NW circuit breaker without connectors and the retrofit kit for a complete replacement.

Some electrical accessories characteristics and wiring connections may not be identical between Masterpact MP/MC and Masterpact NW. Evaluation with regards to products compatibility must be completed before commissioning the replacement circuit breaker.

Kit is shown as a set of three (for three-pole) or four (for four-pole) for top and bottom connection.

Masterpact MP: UL 489 circuit breaker; Masterpact MC: UL1066 (ANSI C37) circuit breaker

**Table 76 – Retrofit Kits**

Old Circuit Breaker Being Replaced	New Circuit Breaker Without Connectors	Retrofit Kit 3-Pole Top	Retrofit Kit 3-Pole Bottom	Retrofit Kit 4-Pole Top	Retrofit Kit 4-Pole Bottom
<b>Masterpact MP/MC UL/ANSI Drawout Circuit Breakers</b>					
MP/MC 08-16 Vertical	NW08-16	S64120T	S64120B	S64131T	S64131B
MP/MC 08-16 Horizontal	NW08-16	S64121	S64122	S64132	S64133
MP/MC 20 Vertical	NW20	S64123	S64124	S64134	S64135
MP 25-30 Vertical	NW25-30	S64125	S64125	S64136	S64137
MC 32 Vertical	NW32	S64126	S64126	N/A	N/A
MP/MC 40 Vertical	NW40	S64127	S64128	S64138	S64139
MP/MC 50 Vertical	NW50	S64129	S64169	S64140	S64170
MP 63 Vertical	NW60	S64130	S64130	N/A	N/A
<b>Masterpact MP UL Fixed Circuit Breakers</b>					
MP 08-16 Vertical	NW08-16	S64141	S64142	S64153	S64154
MP 08-16 Horizontal	NW08-16	S64143	S64144	S64155	S64156
MP 20 Vertical	NW20	S64145	S64146	S64157	S64158
MP 25-30 Vertical	NW25-30	S64147	S64148	S64159	S64160
MP 40 Vertical	NW40	S64149	S64150	N/A	N/A
MP 50 Vertical	NW50	S64151	S64152	N/A	N/A

## Masterpact M Retrofit Kits

These bus adapter kits will allow direct mechanical replacement of the old Masterpact M (IEC) with the Masterpact NW circuit breaker.

Order the corresponding Masterpact NW circuit breaker without connectors and the retrofit kit for a complete replacement.

Some electrical accessories characteristics and wiring connections may not be identical between Masterpact M and Masterpact NW. Evaluation with regards to products compatibility must be completed before commissioning the replacement circuit breaker.

Kit is shown as a set of three (3-pole) or four (4-pole) for top and bottom connection.

Masterpact M: IEC 60947-2 circuit breaker

**Table 77 – Retrofit Kits**

Old Circuit Breaker Being Replaced	New Circuit Breaker Without Connectors	Retrofit Kit 3-Pole Top	Retrofit Kit 3-Pole Bottom	Retrofit Kit 4-Pole Top	Retrofit Kit 4-Pole Bottom
<b>Masterpact M IEC Drawout Circuit Breakers</b>					
M 08-12 N1/NI Vertical	NW08-12	S48966	S48966	S48966Q	S48966Q
M 08-12 N1/NI Horizontal	NW08-12	S48951	S48964	S48951Q	S48964Q
M 08-12 H1/H2/NI/NI/NI/NI Vertical	NW08-12	S48969	S48969	S48969Q	S48969Q
M 08-12 H1/H2/NI/NI/NI/NI Horizontal	NW08-12	S48954	S48965	S48954Q	S48965Q
M 16 N1/H1/H2/NI/NI/NI/NI Vertical	NW16	S48969	S48969	S48969Q	S48969Q
M 16 N1/H1/H2/NI/NI/NI/NI Horizontal	NW16	S48954	S48965	S48954Q	S48965Q
M 20-25 N1/H1/H2/NI/NI/NI/NI Vertical	NW20-25	S48970	S48970	S48970Q	S48970Q
M 20-25 N1/H1/H2/NI/NI/NI/NI Horizontal	NW20-25	S48957	S48958	S48957Q	S48958Q
M 32 H1/H2/NI/NI/NI/NI Vertical	NW32	S48974	S48974	S48978Q	S48978Q
M 32 H1/H2/NI/NI/NI/NI for neutral left	NW32	S48973	S48973	S48976Q	S48977Q
M 32 H1/H2/NI/NI/NI/NI for neutral right	NW32	S48973	S48973	S48977Q	S48976Q
<b>Masterpact M IEC Fixed Circuit Breakers</b>					
M 08-12 N1/NI Horizontal	NW08-12	S48951	S48964	S48951Q	S48964Q
M 08-12 H1/H2/NI/NI/NI/NI Horizontal	NW08-12	S48954	S48965	S48954Q	S48965Q
M 16 N1/H1/H2/NI/NI/NI/NI Horizontal	NW16	S48954	S48965	S48954Q	S48965Q
M 20-25 N1/H1/H2/NI/NI/NI/NI Horizontal	NW20-25	S48957	S48958	S48957Q	S48958Q
M 32 H1/H2/NI/NI/NI/NI Horizontal	NW32	S48962	S48961	S48960Q	S48960Q

## Masterpact MP/MC/M Neutral CT Retrofit Kits

If required, select the appropriate neutral CT based on the sensor plug ampere rating, Type (UL/ANSI or IEC) and frame rating of the Masterpact NW circuit breaker.

### Examples:

For UL Masterpact NW 4000 A Frame (NW 40) with 3000 A Sensor plug, select NCT catalog number S64164

For IEC Masterpact NW 4000 A Frame (NW 40) with 3000 A Sensor plug, select NCT catalog number S64163

Kit includes the Masterpact NW neutral sensor with special bus connection that provides exact touch point to the existing bus of the Masterpact MP/MC/M neutral sensor being replaced.

**Table 78 – Neutral CT Retrofit Kits**

Sensor Plug Rating (A)	UL/ANSI Circuit Breaker Frame	IEC Circuit Breaker Frame	NCT Catalog No.
100–250	NW 08	NW 08	S64161
400–2000	NW 08-20	NW 08-20	S64162
2500–4000	NW 25-32	NW 25-40	S64163
2000–6300	NW 40-60	NW 50-63	S64164

**Table 79 – Energy Reduction Maintenance Setting Kits**

Used With	Description	Catalog No.
A, P, or H Micrologic Trip Units	Alternate Maintenance Setting (AMS)	84957
P or H Micrologic Trip Units	Energy Reduction Maintenance Setting (ERMS)	84956

# Appendix A—AC Device Selection

Request for Quotation Form

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For faster quote processing, please use the following request for quotation form. For each section, check the applicable box or enter value corresponding to your choice. **Note:** this request for quotation form does not take into account incompatibilities. Orders to be placed on CSSS.

<b>Square D:</b>	Date	Customer Name:	RFQ No.
From	Location	Account No.	Q2C No.
Phone No.	Fax No.	Contact Name	Phone No.
Messages		Location	Fax No.

<b>Circuit Breakers or Switches</b>		Quantity: _____
Brand:	Schneider Electric <input type="checkbox"/>	Square D <input type="checkbox"/>
Standard	ANSI <input type="checkbox"/>	UL <input type="checkbox"/> IEC <input type="checkbox"/>
Type	NT <input type="checkbox"/>	NW <input type="checkbox"/>
Number of Poles	3 <input type="checkbox"/>	4 <input type="checkbox"/>
Frame rating	Amperes: _____	
Sensor plug rating	Amperes: _____	
Interrupting/	N, N1, NA, L, LF, L1, L1F, H, H1	
Withstand rating	H2, H3, H10, HA, HA10, HF, HB, HC	
Cradle options:	Circuit breaker with cradle▲ <input type="checkbox"/> Circuit breaker without cradle <input type="checkbox"/> Cradle only♦ <input type="checkbox"/> Fixed circuit breaker <input type="checkbox"/> ArcBlok circuit breaker★ with cradle <input type="checkbox"/> without cradle <input type="checkbox"/> ArcBlok cradle only★ <input type="checkbox"/>	
Optional characterization for CTs	<input type="checkbox"/>	

<b>Micrologic Trip Units</b>	
<b>Dummy Trip Unit</b> (for switch only)	<input type="checkbox"/>
<b>Basic Trip Unit</b>	
Basic protection	2.0 <input type="checkbox"/> 3.0 <input type="checkbox"/>
Selective protection	5.0 <input type="checkbox"/>
<b>Trip Unit with Ammeter</b>	
Basic protection	2.0A <input type="checkbox"/> 3.0A <input type="checkbox"/>
Selective protection	5.0A <input type="checkbox"/>
Selective protection + equip. ground fault	6.0A <input type="checkbox"/>
<b>Trip Unit with Power Metering</b>	
Selective protection	5.0P <input type="checkbox"/>
Selective protection + equip. ground fault	6.0P <input type="checkbox"/>
<b>Trip Unit with Harmonic Metering</b>	
Selective protection	5.0H <input type="checkbox"/>
Selective protection + equip. ground fault	6.0H <input type="checkbox"/>
Rating plug type (A=UL/ANSI; R=IEC) (for non-standard, see page 18)	
Choose one:	External neutral sensor (CT) <input type="checkbox"/>
	Mod. differential ground-fault (MDGF) <input type="checkbox"/>
	Source ground return (SGR) <input type="checkbox"/>

<b>Micrologic™ Trip Unit Accessories</b>	
Choose one:	Programmable contact module (M2C) <input type="checkbox"/>
	Programmable contact module (M6C) <input type="checkbox"/>
MODBUS® circuit breaker com. module	(BCM) <input type="checkbox"/>
MODBUS cradle com. module	(CCM) <input type="checkbox"/>
Restraint interface module	(RIM) <input type="checkbox"/>
External power supply (24 Vdc)	input voltage _____
Number of power supplies/circuit breaker:	1 <input type="checkbox"/> or 2 <input type="checkbox"/>
Battery backup	quantity: 1 <input type="checkbox"/> or 2 <input type="checkbox"/>
External voltage sensing	<input type="checkbox"/>
Automatic reset	(RAR) <input type="checkbox"/>

<b>Cradle Secondary Disconnects</b>	
Choose one:	
Push-in terminal (standard)	<input type="checkbox"/>
Ring terminal■	<input type="checkbox"/>

<b>Accessories for Remote Operation</b>	
Spring-charging motor (MCH)	_____ Vac _____ Vdc
Shunt close (XF): Standard <input type="checkbox"/> or Communication <input type="checkbox"/>	_____ Vac _____ Vdc
Shunt trip (MX1): Standard <input type="checkbox"/> or Communication <input type="checkbox"/>	_____ Vac _____ Vdc
Additional shunt trip (MX2) OR	_____ Vac _____ Vdc
Undervoltage trip (MN)—choose one	
Instantaneous	_____ Vac _____ Vdc
Fixed-time delayed	_____ Vac _____ Vdc
Adjustable-time delayed	_____ Vac _____ Vdc
Electrical closing push button	(BPFE) <input type="checkbox"/>
Remote reset after fault trip (RES) (incompatible with SDE2)	110–130 Vac <input type="checkbox"/> 200–240 Vac <input type="checkbox"/>

<b>Wiring for Cradle ♦</b>	
Circuit breaker communication module (BCM) wiring	<input type="checkbox"/>
Wiring for zone-selective interlocking (ZSI), modified differential ground fault (MDGF), neutral current transformer (CT) and 24 V power supply	<input type="checkbox"/>
Wiring for programmable contact modules (M2C and M6C)	<input type="checkbox"/>
Wiring for additional overcurrent trip switch (SDE2) or electrical reset (RES)	<input type="checkbox"/>
Wiring for undervoltage trip (MN) or additional shunt trip (MX2)	<input type="checkbox"/>
Wiring for shunt trip (MX), shunt close (XF) and spring-charging motor (MCH)	<input type="checkbox"/>
Wiring for ready-to-close contact (PF)	<input type="checkbox"/>
Wiring for four additional form C auxiliary switches (push-in terminals) or 2a+2b auxiliary switches (ring terminals) (OF)	<input type="checkbox"/>
Wiring for eight additional form C auxiliary switches (push-in terminals) (OF)	<input type="checkbox"/>

<b>Communications</b>	
<b>COM Module</b>	
Device <input type="checkbox"/> with Ethernet interface	<input type="checkbox"/> Cradle management <input type="checkbox"/>
(BCM-ULP) with Ethernet interface + Gateway	<input type="checkbox"/> with IO application
with Modbus interface	<input type="checkbox"/> module (Chassis)
<b>Front Display Module (FDM121)</b> <input type="checkbox"/>	Mounting accessories <input type="checkbox"/>
<b>Breaker ULP Cord</b>	L = 0.35 m <input type="checkbox"/> L = 1.3 m <input type="checkbox"/> L = 3 m <input type="checkbox"/>

<b>Manufacturing Numbers Provided with Quotation</b>	
<b>Circuit Breaker:</b>	_____
<b>Cradle:</b>	_____

▲ See Delivery Schedule on the next page  
 ■ Not available on Masterpact NT (T-frame circuit breaker)  
 ♦ Complete only if ordering cradle without circuit breaker.  
 ★ ArcBlok circuit breakers and cradles are available for ANSI and UL 489 3-pole circuit breakers and cradles only.

Request for Quotation Form

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Auxiliary, Alarm and Cradle Position Switches	
Auxiliary switch (OF) choose one:	Push-in type terminal or Ring terminal 4a/4b form C (std.) 2a + 2b▲ <input type="checkbox"/> 4a/4b low level NT <input type="checkbox"/> 4a + 4b▲ <input type="checkbox"/> 8a/8b form C▲ <input type="checkbox"/> 12a/12b form C▲ <input type="checkbox"/>
Overcurrent trip switches	
Standard (1a/1b form C)	(SDE1) standard
Additional overcurrent trip switches (choose one)	
(1a/1b form C) (incompatible with RES)	(SDE2) <input type="checkbox"/>
(1a/1b form C) (incompatible with RES)	(low-level SDE2) <input type="checkbox"/>
Ready-to-close switch (PF)	Std <input type="checkbox"/> low level <input type="checkbox"/>
Push-in type cradle position switches (1a/1b form C)	Qty
Connected position (max. qty.: 3 NW/3 NT)	(CE) _____
Test position (max. qty.: 3 NW/1 NT)	(CT) _____
Disconnected position (max. qty.: 3 NW/2 NT)	(CD) _____
Low-level cradle position switch	
Choose one:	Qty
Connected/Closed switch▲ (max. qty.: 8)	(EF) _____
Connected/Closed switch▲ (max. qty.: 8)	(low-level EF) _____
Ring terminal type cradle position switches (1a or 1b contact)	
Connected position (max. 3a or 3b)▲	qty/type _____
Test position (max. 1a or 1b)▲	qty/type _____
Disconnected position (max. 3a or 3b)▲	qty/type _____
Locking and Interlocking	
Padlockable push button cover	<input type="checkbox"/>
Padlock provision only	<input type="checkbox"/>
One key lock (select manufacturer below)	<input type="checkbox"/> <input type="checkbox"/>
Two key locks keyed alike (select manufacturer below)	<input type="checkbox"/> <input type="checkbox"/>
Two key locks keyed differently (select manufacturer below)	<input type="checkbox"/> <input type="checkbox"/>
Key lock manufacturer:	
Kirk <input type="checkbox"/>	Ronis <input type="checkbox"/>
Castell <input type="checkbox"/>	Profalux <input type="checkbox"/>

- ▲ Not available on Masterpact NT (T-frame circuit breaker)
- Not available on IEC circuit breaker
- ◆ Not available on IEC Masterpact NT.
- ★ Standard with IEC offer.
- ▼ Shutter padlock provision and position indicator is not available on ArcBlok cradles.

Cradle Connections		
Front-connected		
800–3200 A	Front-connected flat	(FCF) <input type="checkbox"/>
	Front-connected "T"▲■	(FCT) <input type="checkbox"/>
4000 A	Front-connected flat■	(FCF) <input type="checkbox"/>
4000–5000 A	Front-connected "T"■	(FCT) <input type="checkbox"/>
Rear-connected		
800–3200 A	Rear-connected "T" vertical	(RCTV) <input type="checkbox"/>
	Rear-connected "T" horizontal	(RCTH) <input type="checkbox"/>
2000 A L1/L	Rear-connected offset vertical■	(RCOV) <input type="checkbox"/>
3200 A (ANSI)	Rear-connected offset vertical■	(RCOV) <input type="checkbox"/>
4000-6300 A	Rear connected "T" vertical	(RCTV) <input type="checkbox"/>
	Rear-connected "T" horizontal	(RCTH) <input type="checkbox"/>

Cradle Interlocking and Accessories	
Door interlock(VPEL)	<input type="checkbox"/>
Racking interlock between racking crank and Off position—std. on UL/ANSI (IBPO)◆	<input type="checkbox"/>
Racking interlock (VPOC)	<input type="checkbox"/>
Automatic spring discharge (DAE)—std. on UL/ANSI◆	<input type="checkbox"/>
Cradle rejection kit	standard
Auxiliary terminal shield	<input type="checkbox"/>
Metering CT (optional for UL/ANSI only)	<input type="checkbox"/>
Lock cradle in all positions—std. on UL/ANSI	<input type="checkbox"/>

Miscellaneous Accessories	
Mechanical operation counter	<input type="checkbox"/>
Shutter (Required option for IEC NW circuit breakers)	<input type="checkbox"/>
Shutter with padlock provision and position indicator▼	<input type="checkbox"/>
Transparent cover (drawout circuit breaker only)	<input type="checkbox"/>
Lifting device for lifting hooks (set of 2)	<input type="checkbox"/>
T-frame, W-frame, or Y-frame circuit breaker	lifting bar (short) <input type="checkbox"/>
	lifting bar (long) <input type="checkbox"/>
Masterpact NW/NT remote racking device	<input type="checkbox"/>

Test Equipment	
Hand-held test kit	<input type="checkbox"/>
Full-function test kit	<input type="checkbox"/>
Test report for circuit breaker, standard for ANSI, check for UL, IEC	<input type="checkbox"/>
Test report for cradle, standard on ANSI, check for UL, IEC	<input type="checkbox"/>

Manufacturing Number Provided with Quotation	List Price	Delivery (from receipt of order)
Circuit Breaker: _____	\$ _____	
Cradle: _____	\$ _____	
<b>Total</b>	<b>\$ _____</b>	

Delivery Schedule	
Circuit breaker and cradle to be shipped together	<input type="checkbox"/>
Cradle to be shipped prior to circuit breaker	<input type="checkbox"/>

Schneider Electric Conditions of Sale Apply

# Appendix B—DC Circuit Breaker Selection

## REQUEST FOR QUOTATION FORM

For faster quote processing, please use the following request for quotation form. For each section, check the applicable box or enter values corresponding to your choice. Note: this request for quotation form does not take into account incompatibilities. Order to be placed on CSSS.

Date	
From	Location
Phone No.	Fax No.
Messages	

Customer Name:	RFQ No.:
Account No.:	Q2C No.:
Contact Name:	Phone No.:
Location:	Fax No.:

UL Listed Circuit Breaker		Qty	
	Variable Trip		Fixed Trip
Masterpact Type	NW08	<input type="checkbox"/>	NW10
	NW12	<input type="checkbox"/>	NW12
	NW14	<input type="checkbox"/>	NW14
	NW16	<input type="checkbox"/>	NW16
	NW20	<input type="checkbox"/>	NW20
	NW25	<input type="checkbox"/>	NW25
	NW30	<input type="checkbox"/>	NW30
	NW40	<input type="checkbox"/>	NW40
Circuit Breaker Type	N and H are available		
Type of Sensor	1250 to 2500 A		
	2500 to 5400 A		
	5000 to 11000 A		
Load Connection	Version C		
	Version C1 Split		
	Version C1 Series		
Type of Equipment	Fixed		
	Drawout chassis		
Type of Connection	Vertical	Top	Bottom
	Horizontal	Top	Bottom

Cradle Secondary Disconnects	
Choose One:	
Push-in terminal (standard)	<input type="checkbox"/>
Ring terminal (UL option only)	<input type="checkbox"/>

Accessories for Remote Operation		
Spring-charging Motor (MCH)	_____ V ac	
	_____ V dc	
Shunt close (XF)	_____ V ac	
	_____ V dc	
Shunt Trip (MX1)	_____ V ac	
	_____ V dc	
Additional shunt trip (MX2)	_____ V ac	
OR	_____ V dc	
Undervoltage Trip (MN) –choose one	Instantaneous	_____ V ac
		_____ V dc
	Fixed-time delay	_____ V ac
		_____ V dc
Adjustable-time delay	_____ V ac	
	_____ V dc	

IEC Rated Circuit Breaker or Switch Disconnect		Qty	
Masterpact Type	NW10		
	NW20		
	NW40		
Circuit Breaker Type	N, H		
Switch-disconnector Type	HA		
Type of Sensor	1250 to 2500 A		
	2500 to 5400 A		
	5000 to 11000 A		
Load Connection	C, D, E		
Type of Equipment	Fixed		
	Drawout		
Type of Connection	Vertical	Top	Bottom
	Horizontal	Top	Bottom

Electrical closing push button (BPFE)	
Remote reset after fault trip (RES)	100–130 Vac
(incompatible with SDE2)	200–240 Vac

Wiring for Cradle (Complete only if ordering cradle without circuit breaker)	
Wiring for additional overcurrent trip switch (SED2) or electrical reset (RES)	
Wiring for undervoltage trip (MN) or additional shunt trip (MX2)	
(Wiring for shunt trip (MX), shunt close (XF) and spring-charging motor (MCH))	
Wiring for ready-to-close contact (PF)	
Wiring for four additional Form C auxiliary switches (push-in terminals) or 2a+2b auxiliary switches (ring terminals) (OF)	
Wiring for eight additional form C auxiliary switches (Push-in Terminals) (OF)	

**Manufacturing Numbers Provided with Quotation**

**Circuit Breaker:** \_\_\_\_\_

**Cradle:** \_\_\_\_\_

**REQUEST FOR QUOTATION FORM**

**Auxiliary, Alarm and Cradle Position Switches**

Auxiliary Switch (OF)  
 Choose one:      Push-in type terminal    or    Ring terminal

4a/4b form C (std.)	<input type="checkbox"/>	2a + 2b	<input type="checkbox"/>
8a/8b form C	<input type="checkbox"/>	4a + 4b	<input type="checkbox"/>
12A/12B form C	<input type="checkbox"/>		

Overcurrent trip switches  
 Standard (1a/1b form C)      (SDE1) standard

Additional overcurrent trip switches (choose one)

(1a/1b form c) (incompatible with RES)	(SDE2)	<input type="checkbox"/>
(1a/1b form c) (incompatible with RES)	(low level (SDE2))	<input type="checkbox"/>

Ready-to-close switch (PF)      Std       low-level

Push-in type cradle position switches (1a/1b form C)

Connected position (max. qty: 3)	qty _____
Test position (max. qty: 3)	qty _____
Disconnected position (max. qty: 3)	qty _____

Low-level cradle position switch  
 Choose one:      Qty.

Connected/Closed switch (max. qty: 8)	(EF) _____
Connected/Closed switch (max. qty: 8)	(low-level EF) _____

Ring terminal type cradle position switches (1a or 1b contact)

Connected position (max. 3a or 3b)	qty _____
Test position (max. 1a or 1b)	qty _____
Disconnected position (max. 3a or 3b)	qty _____

**Cradle Interlocking and Accessories**

Door Interlock

Racking interlock between racking crank and Off position

	std on UL, check for IEC	<input type="checkbox"/>
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Racking interlock (VPOC)

Automatic spring discharge (DAE)      std on UL, check for IEC

Cradle rejection kit      standard

Auxiliary terminal shield

**Miscellaneous Accessories**

Mechanical operation counter

Shutter

Shutter with padlock provision and position indicator

Locking and Interlocking	Cradle	Brkr.
Padlockable push button cover		<input type="checkbox"/>
Padlock provision only	Std	<input type="checkbox"/>
One key lock	<input type="checkbox"/>	<input type="checkbox"/>
(Select manufacturer below)		
Two key locks keyed alike	<input type="checkbox"/>	<input type="checkbox"/>
(Select manufacturer below)		
Two key locks keyed differently	<input type="checkbox"/>	<input type="checkbox"/>
(Select manufacturer below)		

Key lock manufacturer

	Ronis <input type="checkbox"/>	Kirk <input type="checkbox"/>
	Profalux <input type="checkbox"/>	Castell <input type="checkbox"/>

Test report for circuit breaker

Test report for cradle

Manufacturing Number (provided with quotation)	
Circuit Breaker:	List Price \$ _____
Cradle:	\$ _____ Delivery (from receipt of order)
<b>Total</b>	<b>\$ _____</b>


Delivery Schedule

Circuit Breaker and cradle to be shipped together	<input type="checkbox"/>
Cradle to be shipped prior to circuit breaker	<input type="checkbox"/>

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# Appendix C—Keylock Selection

	<b>KIRK KEY LOCK</b>	
<b><i>Dedicated to Growth • Committed to Quality</i></b>		
Form Use : To supply order information when the Kirk key lock for the part numbers listed below are ordered.		
<b>Q2C # :</b>	<b>Job Name :</b>	<b>Date Completed :</b>
<b>Line Item(s) :</b>	<b>Completed By :</b>	<b>From (Location) :</b>

SCHNEIDER ELECTRIC  
 3700 SIXTH STREET SW  
 CEDAR RAPIDS, IA 52404

PURCHASE ORDER # \_\_\_\_\_ CIRCUIT BREAKER CATALOG # \_\_\_\_\_

Choose one:  
 Quantity Ordered

- \_\_\_\_\_ Kirk Single Lock CN22-1.2 (Square D Part # 35635) **Used on Masterpact NT/NW Breaker, Powerpact P Cradles & C4E Breakers**
- \_\_\_\_\_ Kirk Single Lock (horizontal mount) KFL003710\*\* (Square D Drawing # 48186-220-50) **For Powerpact M, P & R Breakers Only**
- \_\_\_\_\_ Kirk Single Lock (vertical mount) KFL003710 (Square D Drawing # 48185-267-01) **For Powerpact M & P Breakers Only**
- \_\_\_\_\_ Kirk Double Lock (vertical mount) KFL003720 (Square D Drawing # 48185-266-01) **For Powerpact M & P Breakers Only**
- \_\_\_\_\_ Kirk Double Lock (horizontal mount) KFL003720\*\* (Square D Drawing # 48186-224-50) **For Powerpact R Breaker Only**

\*\*requires 3" role pin

Please note: The above keys are ordered from an outside vendor. Since these are registered keys, the following information is **REQUIRED** before the order can be processed.

**ULTIMATE USER'S NAME AND ADDRESS**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ULTIMATE USER'S CONTACT PERSON AND PHONE NUMBER**

\_\_\_\_\_  
 \_\_\_\_\_

**KEYED ALIKE**

QTY \_\_\_\_\_ CATALOG # \_\_\_\_\_  
 QTY \_\_\_\_\_ CATALOG # \_\_\_\_\_

**KEYED DIFFERENT**

QTY \_\_\_\_\_ CATALOG # \_\_\_\_\_  
 QTY \_\_\_\_\_ CATALOG # \_\_\_\_\_

**SETS KEYED ALIKE**

QTY \_\_\_\_\_ CATALOG # \_\_\_\_\_

**KEYED LIKE EXISTING LOCK**

KEY / LOCK # \_\_\_\_\_

Schneider Electric USA, Inc.  
 800 Federal Street

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<b>Submit to: Customer Service</b>	<b>At Location: Cedar Rapids Plant</b>	<b>FAX: 319-369-6448</b>
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Form Title:  
 Kirk Key Order Form

Rev # 8 (May 2015)  
 Form Owner : Nancy Zlatohlavek - Cedar Rapids Plant

Page: 1



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4804930501B ..... 48	NT08N1 ..... 4	NT16L1 ..... 13	NW08L1 ..... 4	NW10NDC ..... 33
4804930501C ..... 48	NT08N1 ..... 6	NT16N ..... 13	NW08L1 ..... 8	NW12H ..... 13
64274 ..... 49	NT08N1 ..... 8	NW08-16 ..... 50	NW08L1F ..... 4	NW12H ..... 15
65350 ..... 42	NT08NA ..... 5	NW08-16 ..... 50	NW08L1F ..... 8	NW12H ..... 17
685823 ..... 48	NT08NA ..... 7	NW08-16 ..... 50	NW08LF ..... 15	NW12H ..... 19
685824 ..... 48	NT08NA ..... 8	NW08-16 ..... 50	NW08LF ..... 17	NW12H1 ..... 25
685825 ..... 48	NT10H1 ..... 25	NW08H ..... 13	NW08LF ..... 19	NW12H1 ..... 27
685826 ..... 48	NT10H1 ..... 27	NW08H ..... 15	NW08N ..... 13	NW12H1 ..... 30
685827 ..... 48	NT10H1 ..... 30	NW08H ..... 17	NW08N ..... 15	NW12H10 ..... 27
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LV434195 ..... 35	NT12H1 ..... 30	NW08H3 ..... 4	NW08NDC ..... 22	NW12L ..... 17
LV434196 ..... 35	NT12H10 ..... 30	NW08H3 ..... 6	NW08NDC ..... 24	NW12L ..... 19
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NT08HF ..... 14	NT12N ..... 15	NW08HF ..... 14	NW10HDC ..... 32	NW14NDC ..... 23
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NW16HA	29	NW20H3	30	NW25H10	27	NW32HA	8	NW40HC	5
NW16HA	5	NW20H3	4	NW25H10	30	NW32HA10	29	NW40HC	8
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NW16HA	8	NW20H3	8	NW25H2	27	NW32HC	5	NW40HDC	23
NW16HA10	29	NW20HA	26	NW25H2	30	NW32HC	8	NW40HDC	32
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NW16HC	5	NW20HA	30	NW25H3	30	NW32HF	28	NW40HDC	32
NW16HC	8	NW20HA	5	NW25HA	26	NW32HF	30	NW40HDC	33
NW16HDC	22	NW20HA	7	NW25HA	29	NW32HF	5	NW40HDC	33
NW16HDC	23	NW20HA	8	NW25HA	30	NW32HF	7	NW40HDC	33
NW16HF	14	NW20HA10	29	NW25HA10	29	NW32HF	8	NW40HF	14
NW16HF	16	NW20HA10	30	NW25HA10	30	NW32L1	4	NW40HF	16
NW16HF	26	NW20HADC	32	NW25HB	16	NW32L1	8	NW40HF	26
NW16HF	28	NW20HADC	32	NW25HDC	22	NW40	50	NW40HF	28
NW16HF	5	NW20HADC	32	NW25HDC	23	NW40	50	NW40HF	30
NW16HF	7	NW20HADC	33	NW25HF	14	NW40bH1	25	NW40HF	5
NW16HF	8	NW20HADC	33	NW25HF	16	NW40bH1	28	NW40HF	7
NW16L	15	NW20HADC	33	NW25HF	26	NW40bH1	30	NW40HF	8
NW16L	17	NW20HB	16	NW25HF	28	NW40BH1	6	NW40L	15
NW16L	19	NW20HC	5	NW25HF	30	NW40bH2	25	NW40L	17
NW16L1	27	NW20HC	8	NW25L	15	NW40bH2	28	NW40L	19
NW16L1	30	NW20HDC	22	NW25L	17	NW40bH2	30	NW40L1	4
NW16L1	4	NW20HDC	23	NW25L	19	NW40BH2	6	NW40L1	8
NW16L1	8	NW20HDC	32	NW25NDC	22	NW40BH3	6	NW40NDC	22
NW16L1F	4	NW20HDC	32	NW25NDC	23	NW40bHA	26	NW40NDC	23
NW16L1F	8	NW20HDC	32	NW30H	13	NW40bHA	29	NW40NDC	32
NW16LF	15	NW20HDC	33	NW30H	15	NW40bHA	30	NW40NDC	33
NW16LF	17	NW20HDC	33	NW30H	17	NW40BHA	7	NW50	50
NW16LF	19	NW20HDC	33	NW30H	19	NW40BHF	7	NW50	50
NW16N	13	NW20HF	14	NW30HB	16	NW40H	13	NW50H	13
NW16N	15	NW20HF	16	NW30HDC	22	NW40H	15	NW50H	15
NW16N	17	NW20HF	26	NW30HDC	23	NW40H	17	NW50H	17
NW16N	19	NW20HF	28	NW30HF	14	NW40H	19	NW50H	19
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NW16NA	26	NW20L1	27	NW32	50	NW40H2	28	NW50H2	4
NW16NA	29	NW20L1	30	NW32H1	25	NW40H2	30	NW50H2	6
NW16NDC	22	NW20L1	4	NW32H1	28	NW40H2	4	NW50H2	8
NW16NDC	23	NW20L1	8	NW32H1	30	NW40H2	6	NW50H3	4
NW20	50	NW20L1F	4	NW32H1	4	NW40H2	8	NW50H3	6
NW20	50	NW20L1F	8	NW32H1	6	NW40H3	28	NW50H3	8
NW20H	13	NW20LF	15	NW32H1	8	NW40H3	30	NW50HA	26
NW20H	15	NW20LF	17	NW32H10	28	NW40H3	4	NW50HA	29
NW20H	17	NW20N	13	NW32H10	30	NW40H3	6	NW50HA	30
NW20H	19	NW20N	15	NW32H2	25	NW40H3	8	NW50HA	5
NW20H1	25	NW20N	17	NW32H2	28	NW40HA	26	NW50HA	7
NW20H1	27	NW20N	19	NW32H2	30	NW40HA	29	NW50HA	8
NW20H1	30	NW20NDC	22	NW32H2	4	NW40HA	30	NW50HB	16
NW20H1	4	NW20NDC	23	NW32H2	6	NW40HA	5	NW50HC	5
NW20H1	6	NW20NDC	32	NW32H2	8	NW40HA	7	NW50HC	8
NW20H1	8	NW20NDC	33	NW32H3	28	NW40HA	8	NW50HF	14
NW20H10	27	NW25-30	50	NW32H3	30	NW40HA10	29	NW50HF	16

NW50HF	5	S33767	44	S47321	39	S47514	41	S48476	38
NW50HF	7	S33769	44	S47322	39	S47515	41	S48477	45
NW50HF	8	S33770	44	S47323	39	S47516	41	S48478	45
NW50L	15	S33771	44	S47324	39	S47517	41	S48490	39
NW50L	17	S33772	44	S47325	39	S47518	41	S48491	39
NW50L	19	S33773	44	S47326	39	S47519	41	S48492	39
NW50L1	4	S33774	44	S47339	38	S47521	41	S48493	39
NW50L1	8	S33775	44	S47340	38	S47542	47	S48494	39
NW60	50	S33776	44	S47341	38	S47820	38	S48495	39
NW60H	13	S33777	44	S47342	38	S47821	38	S48496	39
NW60H	15	S33778	44	S47342	38	S47822	38	S48501	40
NW60HB	16	S33786	45	S47343	38	S47823	38	S48502	40
NW60HF	14	S33788	45	S47343	38	S47824	38	S48503	40
NW60HF	16	S33791	39	S47344	41	S47825	38	S48504	40
NW60L	15	S33792	39	S47345	41	S47826	38	S48506	40
NW63H1	25	S33793	39	S47359	39	S47828	48	S48521	41
NW63H1	28	S33794	39	S47360	39	S47829	48	S48522	41
NW63H1	30	S33795	39	S47361	39	S47849	46	S48522	41
NW63H2	25	S33796	39	S47362	39	S47850	46	S48523	41
NW63H2	28	S33797	39	S47363	39	S47926	49	S48524	41
NW63H2	30	S33806	38	S47364	39	S47935	49	S48526	41
NW63HA	26	S33809	39	S47365	39	S47936	49	S48527	41
NW63HA	29	S33810	39	S47380	40	S47937	49	S48528	41
NW63HA	30	S33811	39	S47381	40	S47939	49	S48529	41
NWCELLKEY	44	S33812	39	S47382	40	S47939L	49	S48530	41
S131A	34	S33813	39	S47383	40	S47939U	49	S48533	46
S132R	34	S33814	39	S47385	40	S47940	49	S48534	38
S133A	34	S33815	39	S47390	41	S48182	36	S48535	41
S141A	34	S33819	40	S47391	41	S48182	37	S48546	41
S142R	34	S33820	40	S47391	41	S48182	37	S48547	41
S143A	34	S33821	40	S47392	41	S48182	37	S48550	41
S144A	34	S33822	40	S47393	41	S48188	35	S48551	41
S163A	34	S33824	40	S47395	41	S48198	38	S48560	43
S164A	34	S33857	45	S47396	41	S48200	38	S48562	44
S173A	34	S33859	45	S47398	41	S48201	38	S48564	44
S174A	34	S33895	41	S47398	41	S48202	41	S48564	44
S33091	38	S33897	41	S47400	41	S48203	41	S48565	44
S33092	38	S33920	45	S47403	38	S48206	41	S48566	44
S33093	38	S33921	45	S47403	38	S48207	41	S48568	44
S33094	38	S33924	36	S47404	38	S48207	41	S48569	44
S33095	38	S33924	36	S47404	38	S48208	41	S48570	44
S33098	46	S33925	36	S47405	35	S48209	41	S48572	44
S33099	46	S33925	36	S47430	38	S48211	41	S48573	44
S33101	46	S33926	36	S47431	38	S48212	41	S48574	44
S33101	46	S33926	36	S47432	38	S48213	41	S48579	45
S33101	46	S33927	36	S47433	38	S48214	41	S48582	45
S33166	47	S33927	36	S47434	41	S48215	41	S48587	43
S33170	43	S33936	44	S47435	41	S48377	42	S48588	43
S33171	43	S33937	47	S47460	41	S48382	38	S48589	43
S33209	49	S33982	38	S47461	41	S48383	38	S48590	43
S33575	36	S33983	38	S47461	41	S48384	35	S48591	43
S33575	36	S33984	38	S47462	41	S48457	39	S48591	43
S33576	36	S34036	37	S47463	41	S48458	39	S48591	43
S33576	36	S34036	37	S47465	41	S48459	39	S48591	43
S33579	37	S434303	35	S47466	41	S48460	39	S48595	43
S33579	37	S47042	38	S47468	41	S48461	39	S48596	43
S33593	48	S47043	38	S47468	41	S48462	39	S48597	42
S33594	47	S47051	38	S47470	41	S48463	39	S48597	43
S33595	47	S47052	38	S47483	38	S48468	38	S48598	43
S33718	41	S47053	38	S47484	38	S48469	38	S48601	41
S33763	43	S47074	46	S47485	35	S48470	38	S48608	49
S33764	43	S47075	46	S47507	46	S48472	41	S48609	49
S33765	43	S47098	49	S47512	38	S48473	41	S48610	49
S33766	43	S47320	39	S47512	38	S48475	38	S48612	49

S48614	45	S48958	51	S64131T	50	SFCT30	9	SRTA16	31
S48614	45	S48958	51	S64132	50	SFCT30B	18	SRTA16	31
S48823	38	S48958Q	51	S64133	50	SFCT50	18	STRV00121	35
S48824	38	S48958Q	51	S64134	50	SFCT50	18	STRV00210	35
S48825	38	S48960Q	51	S64135	50	SFCT50	9	STRV00211	35
S48826	38	S48960Q	51	S64136	50	SFCT50	9	TRV00128	35
S48827	38	S48961	51	S64137	50	SMCT1200	45	TRV00217	35
S48855	47	S48962	51	S64138	50	SMCT1600	45	TRV00803	35
S48856	47	S48964	51	S64139	50	SMCT2000	45	TRV00806	35
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S48897	37	S48965	51	S64146	50	SMCT3000Y	45	ULW10025	47
S48897	37	S48965Q	51	S64147	50	SMCT3200R	45	ULW10026	47
S48897	37	S48965Q	51	S64148	50	SMCT3200Y	45	ULW10027	47
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S48900	48	S48966	51	S64152	50	SMCT600	45		
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S48914	46	S48970	51	S64163	52	SRCTV16	31		
S48916	37	S48970	51	S64164	52	SRCTV16	31		
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S48917	44	S48970Q	51	S64170	50	SRCTV16	31		
S48918	44	S48973	51	SFCF12	9	SRCTV20	18		
S48919	44	S48973	51	SFCF12	9	SRCTV20	18		
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S48939	41	S48977Q	51	SFCF20FB	9	SRCTV30	18		
S48946	41	S48978Q	51	SFCF20FT	18	SRCTV32	31		
S48947	41	S48978Q	51	SFCF20FT	9	SRCTV32	31		
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