

Masterpact™ NT/NW Universal Power Circuit Breakers

Class 0613

Parts List

0613DB1607
09/2016

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Introduction	3
ANSI C37/UL 1066 Rated	4
Basic Block	4
Cradle	8
Circuit Breaker/Cradle Connectors	9
ArcBlok™ Circuit Breakers Basic Block	10
ArcBlok Cradle/Connections	12
UL 489 Rated	13
Basic Block	13
Drawout Devices	15
Cradle	17
Circuit Breaker/Cradle Connectors	18
ArcBlok Circuit Breakers Basic Block	19
ArcBlok Cradle/Connectors	21
UL 489 Rated DC Circuit Breakers	22
UL 489 Rated DC Circuit Breaker Cradles	24
IEC 60947-2 Rated	25
Basic Block	25
Drawout Devices	27
IEC 60947-2 Rated Cradle	30
Circuit Breaker/Cradle Connectors	31
IEC 60947-2 Rated DC Circuit Breakers and Non-Automatic Switches ..	32
IEC 60947-3 Rated DC Non-Automatic Switch	32
IEC 60947-2 Rated DC Circuit Breakers	33
IEC 60947-3 Rated DC Cradles	33
Trip Unit and Options	34
Neutral Sensor	36
Electrical Accessories	38
Accessories	41
Cradle Accessories	42
Masterpact MP/MC Retrofit Kits	50
Masterpact M Retrofit Kits	51
Masterpact MP/MC/M Neutral CT Retrofit Kits	52
Appendix A—AC Device Selection	53
Appendix B—DC Circuit Breaker Selection	55
Appendix C—Keylock Selection	57
Index of Part Numbers	59

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.

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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	
T-Frame					
800	NT08N1	42	42	—	100,250,400,600,800
W-Frame					
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 ¹	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 ¹	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 ¹	200	200	130	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
Y-Frame					
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

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

¹ 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) ¹			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
W-Frame					
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
Y-Frame					
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

¹ 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	
T-Frame					
800	NT08N1	42	42	—	100,250,400,600,800
W-Frame					
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
Y-Frame					
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) ¹			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
T-Frame					
800	NT08NA	42	42	—	42
W-Frame					
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
Y-Frame					
4000	NW40HA	85	85	85	85
5000	NW50HA	85	85	85	85
6000	NW60HA	85	85	85	85

¹ When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

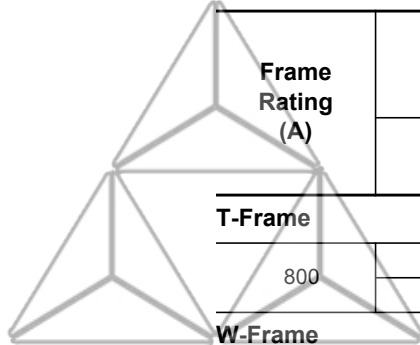
Table 6 – W- and Y-Frame Fixed Automatic Switch

Frame Rating (A)	Model Number	Interrupting Rating (kA) ¹			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
W-Frame					
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
Y-Frame					
4000	NW40HF	100	100	85	85
5000	NW50HF	100	100	85	85
6000	NW60HF	100	100	85	85

¹ 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
T-Frame					
800	NT08N1	NT08NA	42	42	—
	NT08H1	NT08HA	42	42	—
W-Frame					
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
	NW20L1	NW20HC	200	200	130
	NW20L1F	—	200	200	130
3200	NW32H1	NW32HA	65	65	65
	NW32H2	—	85	85	85
	NW32H3	NW32HF	100	100	85
Y-Frame					
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 ¹
T-Frame			
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
W- and Y- Frame			
Front Connected Flat (FCF)	Drawout Circuit Breaker 800–2000 A	Top	SFCF20T
		Bottom	SFCF20B
	Fixed Circuit Breaker 800–2000 A	Top	SFCF20FT
		Bottom	SFCF20FB
Front Connected T (FCT)	Drawout Circuit Breaker 800–2000 A	Top	SFCT30
		Bottom	SFCT30
	Fixed Circuit Breaker 800–2000 A	Top	SFCT30
		Bottom	SFCR30B
Rear Connected Offset Vertical (RCOV)	2000 A ² 3200 A	Top	SRCOV32T
		Bottom	SRCOV32B
	4000 A ³	Top	SRCOV40
		Bottom	SRCOV40
Rear Connected T Horizontal/Vertical (RCTH /RCTV)	800–2000 A	Top	SRCTV20
		Bottom	SRCTV20
	3200 A ² 4000 A 5000 A	Top	SRCTV50
		Bottom	SRCTV50
6000 A	Top	SRCTVA60	
	Bottom	SRCTVA60	

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

² L1/L1F only.

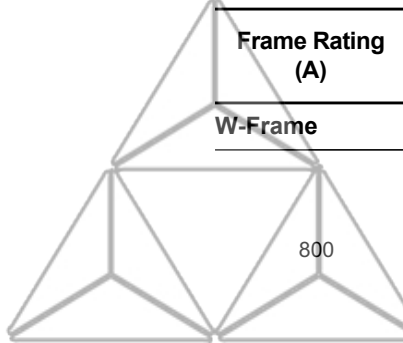
³ For 4000 A W-frame fixed circuit breakers only.

⁴ 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	
W-Frame					
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	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	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
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
Y-Frame					
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) ¹			Short-Time Rating (kA RMS)
		254 V	508 V	635 V	
W-Frame					
800	NW08HA	65	65	65	65
1600	NW16HA	65	65	65	65
2000	NW20HA	65	65	65	65
3200	NW32HA	65	65	65	65
Y-Frame					
4000	NW40HA	85	85	85	85
5000	NW50HA	85	85	85	85

¹ 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) ¹			Short-time Rating (kA RMS)
		254 V	508 V	635 V	
W-Frame					
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
Y-Frame					
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

¹ When used in conjunction with an overcurrent relay, circuit breaker, or fuse.


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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

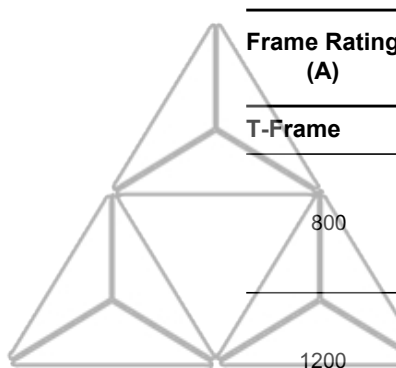


Frame Rating (A)	Model Number		Interrupting Rating / Withstand Rating (kA)		
	Circuit Breaker	Switch	254 V	508 V	635 V
W-Frame					
800	NW08N1	—	42	42	42
	NW08H1	NW08HA	65	65	65
	NW08H2	—	85	85	85
	NW08H3	NW08HF	100	100	85
	NW08L1	NW08HC	200	200	130
	NW08L1F	—	200	200	130
1600	NW16N1	—	42	42	42
	NW16H1	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
Y-Frame					
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		
T-Frame						
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	—		
W-Frame						
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	
Y-Frame						
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

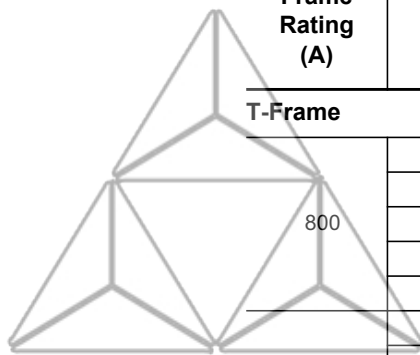
Frame Rating (A)	Model Number	Withstand Rating (kA RMS) ¹			Instantaneous Override (kA RMS)
		240 V	480 V	600 V	
T-Frame					
800	NT08HF	65	50	50	40
	NT08HB	200	100	NA	10
1200	NT12HF	65	50	50	40
	NT12HB	200	100	NA	10
1600	NT16HF	65	50	50	40
	NT16HB	200	100	NA	10
W-Frame					
800	NW08HF	100	100	85	40
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
Y-Frame					
4000	NW40HF	100	100	85	75
5000	NW50HF	100	100	85	75
6000	NW60HF	100	100	85	75

¹ 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.

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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	
T-Frame					
800	NT08N	50	50	35	100, 250, 400, 600, 800
	NT08H	65	50	50	
	NT08L1	100	65	—	
	NT08L	200	100	—	
	NT08LF ¹	200	100	—	
1200	NT12N	50	50	35	600, 800, 1000, 1200
	NT12H	65	50	50	
	NT12L1	100	65	—	
	NT12L	200	100	—	
	NT12LF ¹	200	100	—	
W-Frame					
800	NW08N	65	65	50	100, 250, 400, 600, 800
	NW08H	100	100	85	
	NW08L	200	150	100	
	NW08LF ¹	200	150	100	
1200	NW12N	65	65	50	600, 800, 1000, 1200
	NW12H	100	100	85	
	NW12L	200	150	100	
	NW12LF ¹	200	150	100	
1600	NW16N	65	65	50	800, 1000, 1200, 1600
	NW16H	100	100	85	
	NW16L	200	150	100	
	NW16LF ¹	200	150	100	
2000	NW20N	65	65	50	1000, 1200, 1600, 2000
	NW20H	100	100	85	
	NW20L	200	150	100	
	NW20LF ¹	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	
Y-Frame					
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	

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

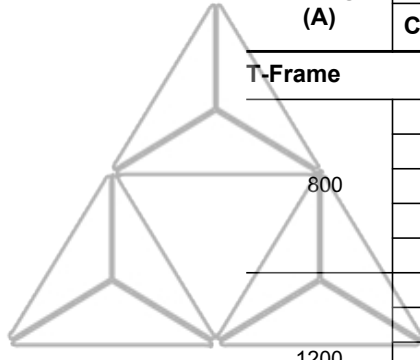
Table 16 – T-, W-, and Y-Frame Drawout Automatic Switch

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) ¹			Instantaneous Override (kA RMS)
		240 V	480 V	600 V	
T-Frame					
800	NT08HF	65	50	50	40
	NT08HB	200	100	NA	10
1200	NT12HF	65	50	50	40
	NT12HB	200	100	NA	10
W-Frame					
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
Y-Frame					
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

¹ 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
T-Frame					
	NT08N	—	50	50	35
	NT08H	NT08HF	65	50	50
	NT08L1	—	100	65	—
	NT08L	NT08HB	200	100	—
	NT08LF	—	200	100	—
	NT12N	—	50	50	35
	NT12H	NT12HF	65	50	50
	NT12L1	—	100	65	—
	NT12L	NT12HB	200	100	—
	NT12LF	—	200	100	—
W-Frame					
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
Y-Frame					
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 ¹	
T-Frame Fixed and Drawout				
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 ²	1600 A	Top	SRCTV16U	
		Bottom	SRCTV16U	
W- and Y- Frame Fixed				
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	
W- and Y- Frame Drawout				
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		
5000 A	Top	SRCTV50		
	Bottom	SRCTV50		
Rea Connected T Vertical (RCTV)	6000 A	Top	SRCTV60	
		Bottom	SRCTV60	

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

² 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	
W-Frame					
800	NW08N	65	65	50	100, 250, 400, 600, 800
	NW08H	100	100	85	
	NW08L	200	150	100	
	NW08LF ¹	200	150	100	
1200	NW12N	65	65	50	600, 800, 1000, 1200
	NW12H	100	100	85	
	NW12L	200	150	100	
	NW12LF ¹	200	150	100	
1600	NW16N	65	65	50	800, 1000, 1200, 1600
	NW16H	100	100	85	
	NW16L	200	150	100	
	NW16LF ¹	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	
Y-Frame					
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	

¹ 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) ¹			Instantaneous Override (kA RMS)
		240 V	480 V	600 V	
W-Frame					
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
Y-Frame					
4000	NW40HF	100	100	85	75
	NW40HB	200	150	100	75
5000	NW50HF	100	100	85	75
	NW50HB	200	150	100	75

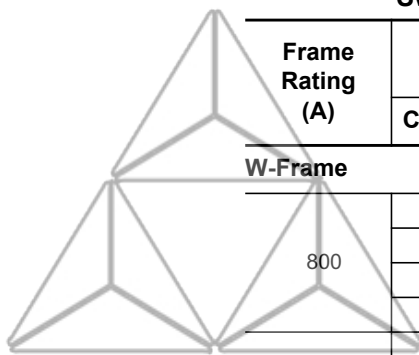
¹ The withstand rating is the fault current (at rated voltage) that the switch will withstand without damage when protected by a circuit breaker with an equal continuous current rating.

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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	
W-Frame						
800	NW08N	—	65	65	50	
	NW08H	NW08HF	100	100	85	
	NW08L	NW08HB	200	150	100	
	NW08LF	—	200	150	100	
	NW12N	—	65	65	50	
	1200	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	
Y-Frame						
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)
W-Frame, Type N		
800	NW08NDC	35
1200	NW12NDC	35
1400	NW14NDC	35
1600	NW16NDC	35
2000	NW20NDC	35
2500	NW25NDC	35
3000	NW30NDC	35
4000	NW40NDC	35
W-Frame, Type H		
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)

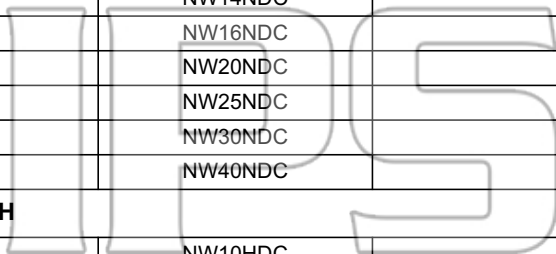
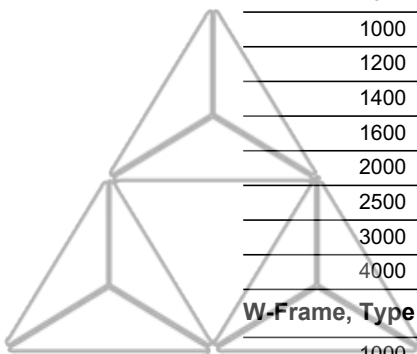
Frame Rating (A)	Model Number	Interrupting Rating (kA) 500 Vdc (max 600 Vdc unloaded)
W-Frame, Type N		
1000	NW10NDC	35
1200	NW12NDC	35
1400	NW14NDC	35
1600	NW16NDC	35
2000	NW20NDC	35
2500	NW25NDC	35
3000	NW30NDC	35
4000	NW40NDC	35
W-Frame, Type H		
1000	NW10HDC	85
1200	NW12HDC	85
1400	NW14HDC	85
1600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


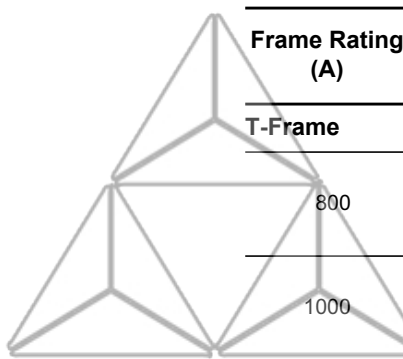
Frame Rating (A)	Model Number	Interrupting Rating (kA) 500 Vdc (max 600 Vdc unloaded)
W-Frame, Type N		
800	NW08NDC	35
1200	NW12NDC	35
1400	NW14NDC	35
1600	NW16NDC	35
2000	NW20NDC	35
2500	NW25NDC	35
3000	NW30NDC	35
4000	NW40NDC	35
W-Frame, Type H		
800	NW08HDC	85
1200	NW12HDC	85
1400	NW14HDC	85
1600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

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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	
T-Frame					
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	
W-Frame					
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	
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	

Table 26 – W-Frame Fixed Automatic Switch¹

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) ²			Instantaneous Override (kA RMS)
		240 V	440 V	690 V	
W-Frame					
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

¹ Switches are IEC 60947-3 rated.

² 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 Switch¹

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) ²			Short-Time (1s) Rating (kA RMS) ³
		240 V	440 V	690 V	
T-Frame					
800	NT08HA	42	42	42	42
1000	NT10HA	42	42	42	42
1250	NT12HA	42	42	42	42
1600	NT16HA	42	42	42	42
W-Frame					
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
Y-Frame					
4000	NW40bHA	85	85	85	85
5000	NW50HA	85	85	85	85
6300	NW63HA	85	85	85	85

¹ Switches are IEC 60947-3 rated.

² When used in conjunction with an overcurrent relay, circuit breaker, or fuse.


³ 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 ¹	
T-Frame						
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	—	
W-Frame						
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	—	
	NW25L1	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 ¹	
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		

¹ 1000 V for T-frame.

Table 29 – W-Frame Drawout Automatic Switch¹

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) ²				Instantaneous Override (kA RMS)
		240 V	440 V	690 V	1150 V	
W-Frame						
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

¹ Switches are IEC 60947-3 rated.

² 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 Switch¹

Frame Rating (A)	Model Number	Withstand Rating (kA RMS) ²				Short-Time (1s) Rating (kA RMS) ³
		240 V	440 V	690 V	1150 V ⁴	
T-Frame						
800	NT08HA	42	42	42	—	42
1000	NT10HA	42	42	42	—	42
1250	NT12HA	42	42	42	—	42
1600	NT16HA	42	42	42	—	42
W-Frame						
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
Y-Frame						
4000	NW40bHA	85	85	85	—	85
5000	NW50HA	85	85	85	—	85
6300	NW63HA	85	85	85	—	85

¹ Switches are IEC 60947-3 rated.

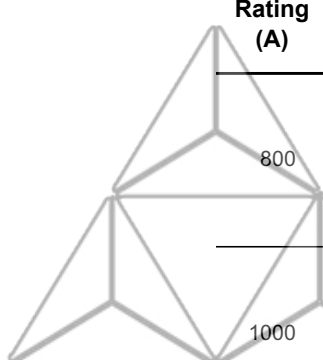
² When used in conjunction with an overcurrent relay, circuit breaker, or fuse.

³ 0.5 s for T-frame.

⁴ 1000 V for T-frame.

IEC 60947-2 Rated Cradle

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

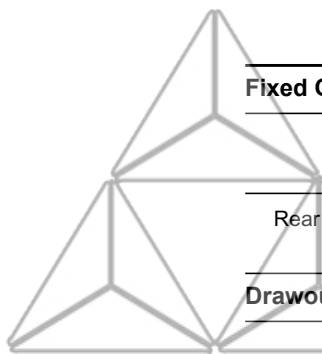


Frame Rating (A)	T-Frame Number		W-Frame Number		Y-Frame Number	
	Circuit Breaker	Switch	Circuit Breaker	Switch	Circuit Breaker	Switch
800	—	—	NW08N1	NW08NA	—	—
	NT08H1	NT08HA	NW08H1	NW08HA	—	—
	—	—	NW08H2	NW08HF	—	—
	NT08H10	NT08HA10	NW08H10	NW08HA10	—	—
	NT08L1	—	NW08L1	—	—	—
	—	—	NW10N1	NW08NA	—	—
	NT10H1	NT10HA	NW10H1	NW08HA	—	—
	—	—	NW10H2	NW08HF	—	—
1000	NT10H10	NT10HA10	NW10H10	NW08HA10	—	—
	NT10L1	—	NW10L1	—	—	—
	—	—	NW12N1	NW08NA	—	—
	NT12H1	NT12HA	NW12H1	NW08HA	—	—
1250	—	—	NW12H2	NW08HF	—	—
	NT12H10	NT12HA10	NW12H10	NW08HA10	—	—
	—	—	NW12L1	—	—	—
	—	—	NW16N1	NW08NA	—	—
1600	NT16H1	NT16HA	NW16H1	NW08HA	—	—
	—	—	NW16H2	NW08HF	—	—
	NT16H10	NT16HA10	NW16H10	NW08HA10	—	—
	—	—	NW16L1	—	—	—
2000	—	—	NW20H1	NW20HA	—	—
	—	—	NW20H2	NW20HF	—	—
	—	—	NW20H10	NW20HA10	—	—
	—	—	NW20H3	—	—	—
	—	—	NW20L1	—	—	—
	—	—	NW25H1	NW25HA	—	—
2500	—	—	NW25H2	NW25HF	—	—
	—	—	NW25H10	NW25HA10	—	—
	—	—	NW25H3	—	—	—
	—	—	NW32H1	NW32HA	—	—
3200	—	—	NW32H2	NW32HF	—	—
	—	—	NW32H10	NW32HA10	—	—
	—	—	NW32H3	—	—	—
	—	—	NW40H1	NW40HA	NW40bH1	NW40bHA
4000	—	—	NW40H2	NW40HF	NW40bH2	—
	—	—	NW40H10	NW40HA10	—	—
	—	—	NW40H3	—	—	—
	—	—	—	—	NW50H1	NW50HA
5000	—	—	—	—	NW50H2	—
	—	—	—	—	NW63H1	NW63HA
6300	—	—	—	—	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 ¹
Fixed Circuit Breaker Connectors			
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
Drawout Circuit Breaker Cradle Connectors			
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
Drawout and Fixed Circuit Breaker Connectors			
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

¹ 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 ¹
Fixed Circuit Breaker Connectors			
Front Connected Flat (FCF)	800–3200 A Fixed Only	Top	SFCF32T
		Bottom	SFCF32B
Drawout Circuit Breaker Cradle Connectors			
Front Connected Flat (FCF)	800–3200 A Drawout Only	Top	SFCF32
		Bottom	SFCF32
Drawout and Fixed Circuit Breaker Connectors			
Rear Connected T Horizontal/Vertical (RCTH/RCTV)	800–3200 A	Top	SRCTV32
		Bottom	SRCTV32
	5000 A ²	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

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

² 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
W- Frame			
Type N			
1000	NW10NDC	C	35
2000	NW20NDC	C	35
4000	NW40NDC	C	35
Type H			
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

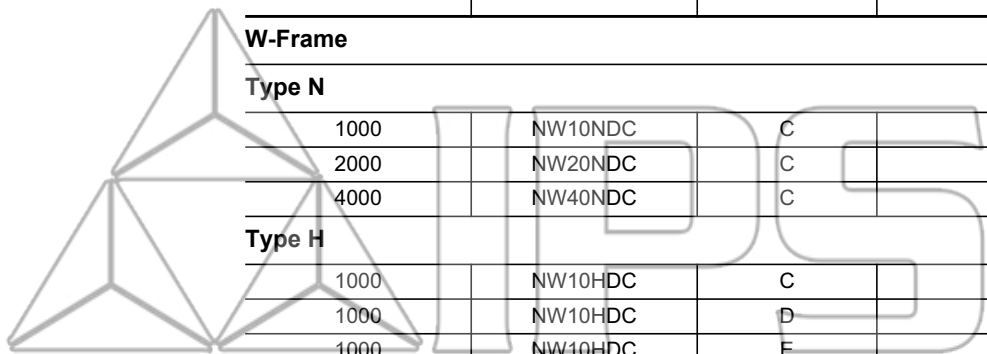
Table 35 – Fixed and Drawout Non-Automatic Switch

Frame Rating (A)	Model Number	Connection Version	Icw KA for U = 500 Vdc
W- Frame			
Type HA			
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
W-Frame			
Type N			
1000	NW10NDC	C	35
2000	NW20NDC	C	35
4000	NW40NDC	C	35
Type H			
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

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Table 37 – Cradle (DC Products)

Frame Rating (A)	Model Number	Connection Version	Icw KA for U = 500 Vdc
W- Frame Type HA			
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 ¹
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 ²
3.0A (UL/ANSI only)	LI		S141A ²
5.0A	LSI		S143A ²
6.0A	LSIG		S144A ²
5.0P	LSI	Metering,	S163A ^{2,3}
6.0P	LSIG	Advanced Protection	S164A ^{2,3}
5.0H	LSI	Metering,	S173A ^{2,3}
6.0H	LSIG	Advanced Protection & Harmonic Analysis	S174A ^{2,3}

¹ 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.

² 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.

³ 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" ¹	.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

¹ Standard offer.

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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 ¹
CT Characterization
Automatic Reset

¹ 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 Sensor¹

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
External neutral sensor for circuit breakers with standard neutral protection			
100–250 A	S33575	S33924	S33926
400–1600 A	S33576	S33925	S33927
External neutral sensor for circuit breakers with oversized neutral protection¹			
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

¹ Oversized neutral protection = 1.6 I_r where I_r = long time pick-up.

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¹ 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 ¹	
		For Residual Ground Fault	For 3-Pole Circuit Breaker with Oversize Neutral Protection ²	For Residual Ground Fault	For 3-Pole Circuit Breaker with Oversize Neutral Protection ²		
W	100	S48916	S48916	S48902	S48902	S33579	
	250		N/A		N/A		
	400	S34036	S34036	S48903	S48903		
	600/630						
	800						
	1000						
	1200/1250						S48896
	1600						S48896
	2000	S48182	S48182				
	2500	S48182	N/A				
	3000						
	3200						
	4000	N/A	N/A				
Y	2000	S48897 ³	S48897 ³	S48898 ³	S48898 ³	S33579	
	2500						
	3000						
	3200						
	4000		N/A	N/A			
	5000						
	6000						
	6300						

¹ 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.

² Oversized neutral protection = 1.6 I_r where I_r = long time pick-up.

³ 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 ¹	S47051	1000	S33093	3000	S48825
250 ¹	S47052	1200	S48824	3200	S33984
—	—	—	—	4000 ²	S47820
400	S47053	1250	S33094	—	—
600	S48823	1600	S33095	—	—
630	S33091	2000	S33982	—	—
800	S33092	2500	S33983	—	—

¹ 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.

² 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 ¹	S47042	S47043	—	—
Low Level 1a/1b Form C Auxiliary Contact	S47339	S33806	—	—
4a/4b Form C Auxiliary Contact (OF) ²	—	—	S48198	S48468
4a/4b Form C Auxiliary Contact (OF) with Actuator ²	—	—	S48859	S48860
1a/1b Form C Second Trip Alarm Contact (SDE2) ³	S47340	S47430	S48200	S48475
Low Level 1a/1b Form C Second Trip Alarm Contact ³	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) ⁴	S47403	S47483	S47403	S48382
6 Programmable Contact Module (M6C) ⁴	S47404	S47484	S47404	S48383
Electrical Close Pushbutton (BPFE)	S47512	S47512	S48534	

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

² Standard on circuit breaker, information for replacement purposes only.

³ Incompatible with remote reset switch (RES).

⁴ Type P or H trip unit required.

Table 48 – Shunt Trip, Second Shunt Trip¹, 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

¹ 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

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Table 50 – Undervoltage Trip¹

Voltage	T-, W-, & Y-Frame Fixed	T-Frame Drawout	W- & Y-Frame Drawout
Instantaneous UV Trip (MN)			
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
Adjustable Time Delay Module²			
48–60 ac/dc		S33680	
100–130 ac/dc		S33681	
200–240 ac/dc		S33682	
380–480 ac		S33683	
Non-Adjustable Time Delay Module²			
100–130 ac/dc		S33684	
200–240 ac/dc		S33685	

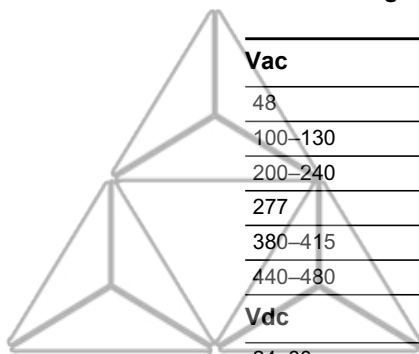
¹ Incompatible with second shunt trip.

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

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Accessories

Table 51 – Spring Charging Motor (MCH)



Voltage	T-Frame		W- & Y-Frame	
	Fixed	Drawout	Fixed	Drawout
Vac				
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
Vdc				
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)¹

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

¹ 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 ¹	S48939	S48945	S48946	S48947
Provision for Kirk Key Lock ¹	S47517	S48542 ²	—	—
Ronis Key Lock + Provision	S47521	S48549	S48550	S48551
Profalux Key Lock + Provision	S47519	S48545	S48546	S48547
Provision for Ronis Lock	S47516	S48541 ²	—	—
Provision for Profalux Lock	S47515	S48541 ²	—	—
Provision for Castell Lock	S47518	S48543 ²	—	—
Padlock Attachment	S47514	S48539	—	—
Padlockable Open/Close Push Button Cover	S33897	S48536	—	—

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

² 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 ¹	S33718	S48601

¹ 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 Shield¹

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

¹ See Table 63 for ArcBlok shutter.

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

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

¹ Includes padlock provision.

Table 59 – Cradle Position Switches (Cell Switches)

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

¹ 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 ^{1, 2}	S48917	S48923
2 Identical Kirk Locks ^{1, 2}	S48918	S48924
2 Different Kirk Locks ^{1, 2}	S48919	S48925
Provision for 2 Kirk Locks	S33936	S48565
Provision for 1 Kirk Lock	S33772	—
Key Locks—Ronis®/Profalux®		
1 Ronis Lock ¹	S33776	S48572
2 Identical Ronis Locks ¹	S33777	S48573
2 Different Ronis Locks ¹	S33778	S48574
1 Profalux Lock ¹	S33773	S48568
2 Identical Profalux Locks ¹	S33774	S48569
2 Different Profalux Locks ¹	S33775	S48570
Provision for 2 Ronis Locks	S33770	S48564
Provision for 2 Profalux Locks	S33769	S48564
Provision for 2 Castell® Locks	S33771	S48566

¹ Includes mounting provision.

² 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 ¹	NWNTMPRRT
Masterpact NW Remote Racking Device ¹	NWMPRRT
Masterpact NT Remote Racking Device ¹	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 ²	S47101
30 ft Control Cable for NW Remote Racking ²	S47102
Drive Shaft for NW Remote Racking ²	S47103
Drive Shaft for NT Remote Racking ²	S47103

¹ Unit comes with ten mounting brackets included.

² 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
W-Frame	
250	SMCT250
400	SMCT400
600	SMCT600
800	SMCT800
1200	SMCT1200
1600	SMCT1600
2000	SMCT2000
2000	SMCT2000R ¹
2500	SMCT2500R
3000	SMCT3000R
3200	SMCT3200R
Y-Frame	
2000	SMCT2000Y
2500	SMCT2500Y
3000	SMCT3000Y
3200	SMCT3200Y
4000	SMCT4000Y
5000	SMCT5000Y
6000	SMCT6000Y

¹ 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 ¹	CLUSTOOLSK

¹ 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) ¹	S48907
Two-Pin Test Cable (for connection between test kit and trip unit) ²	S48908
230 Vac Filtered Power Cord ³	S48856
120 Vac Filtered Power Cord ³	S48855
Primary Injection Test Adapter ⁴	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) ⁵	MICROTUSEAL

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

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

³ Included in the full-function test kit. Kit for replacement only.

⁴ Included in the hand-held test kit. Kit for replacement only.

⁵ 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
W- and Y-Frame Only	
Mounting Brackets for Horizontal Mount	S47828
Mounting Brackets for Vertical Mount	S47829

Table 73 – Certified Test Reports¹

Test Report	Catalog Number ²
Circuit Breaker	4804930501B
Cradle	4804930501C

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

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

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Table 74 – Source Changeover Interlocks

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

¹ IEC only.

² Complete kit.

³ 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 ¹

¹ 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
Masterpact MP/MC UL/ANSI Drawout Circuit Breakers					
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
Masterpact MP UL Fixed Circuit Breakers					
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
Masterpact M IEC Drawout Circuit Breakers					
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/HI/HF Vertical	NW08-12	S48969	S48969	S48969Q	S48969Q
M 08-12 H1/H2/HI/HF Horizontal	NW08-12	S48954	S48965	S48954Q	S48965Q
M 16 N1/H1/H2/NI/HI/HF Vertical	NW16	S48969	S48969	S48969Q	S48969Q
M 16 N1/H1/H2/NI/HI/HF Horizontal	NW16	S48954	S48965	S48954Q	S48965Q
M 20-25 N1/H1/H2/NI/HI/HF Vertical	NW20-25	S48970	S48970	S48970Q	S48970Q
M 20-25 N1/H1/H2/NI/HI/HF Horizontal	NW20-25	S48957	S48958	S48957Q	S48958Q
M 32 H1/H2/HI/HF Vertical	NW32	S48974	S48974	S48978Q	S48978Q
M 32 H1/H2/HI/HF for neutral left	NW32	S48973	S48973	S48976Q	S48977Q
M 32 H1/H2/HI/HF for neutral right	NW32	S48973	S48973	S48977Q	S48976Q
Masterpact M IEC Fixed Circuit Breakers					
M 08-12 N1/NI Horizontal	NW08-12	S48951	S48964	S48951Q	S48964Q
M 08-12 H1/H2/HI/HF Horizontal	NW08-12	S48954	S48965	S48954Q	S48965Q
M 16 N1/H1/H2/NI/HI/HF Horizontal	NW16	S48954	S48965	S48954Q	S48965Q
M 20-25 N1/H1/H2/NI/HI/HF Horizontal	NW20-25	S48957	S48958	S48957Q	S48958Q
M 32 H1/H2/HI/HF 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

Page 1 of 2

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.

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

Circuit Breakers or Switches		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* <input type="checkbox"/> with cradle <input type="checkbox"/> without cradle <input type="checkbox"/> ArcBlok cradle only* <input type="checkbox"/>	
Optional characterization for CTs	<input type="checkbox"/>	

Micrologic Trip Units
Dummy Trip Unit (for switch only) <input type="checkbox"/>
Basic Trip Unit
Basic protection 2.0 <input type="checkbox"/> 3.0 <input type="checkbox"/>
Selective protection 5.0 <input type="checkbox"/>
Trip Unit with Ammeter
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"/>
Trip Unit with Power Metering
Selective protection 5.0P <input type="checkbox"/>
Selective protection + equip. ground fault 6.0P <input type="checkbox"/>
Trip Unit with Harmonic Metering
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"/>

Micrologic™ Trip Unit Accessories
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"/>

Cradle Secondary Disconnects
Choose one:
Push-in terminal (standard) <input type="checkbox"/>
Ring terminal <input type="checkbox"/>
Accessories for Remote Operation
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) _____ Vac
OR _____ 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) 110–130 Vac <input type="checkbox"/>
(incompatible with SDE2) 200–240 Vac <input type="checkbox"/>
Wiring for Cradle ♦
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"/>
Communications
COM Module
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 <input type="checkbox"/>
with Modbus interface <input type="checkbox"/> module (Chassis <input type="checkbox"/>
Front Display Module (FDM121) <input type="checkbox"/> Mounting accessories <input type="checkbox"/>
Breaker ULP Cord L = 0.35 m <input type="checkbox"/> L = 1.3 m <input type="checkbox"/> L = 3 m <input type="checkbox"/>

Manufacturing Numbers Provided with Quotation
Circuit Breaker: _____
Cradle: _____

▲ 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

Page 2 of 2

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▲
 4a/4b low level NT 4a + 4b▲
 8a/8b form C▲
 12a/12b form C▲

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

Additional overcurrent trip switches (choose one)
 (1a/1b form C) (incompatible with RES) (SDE2)
 (1a/1b form C) (incompatible with RES) (low-level SDE2)

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

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 Cradle Brkr

Padlockable push button cover

Padlock provision only

One key lock (select manufacturer below)

Two key locks keyed alike (select manufacturer below)

Two key locks keyed differently (select manufacturer below)

Key lock manufacturer:
 Kirk Ronis
 Castell Profalux

- ▲ 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)
 Front-connected "T"▲■ (FCT)

4000 A Front-connected flat■ (FCF)
 4000–5000 A Front-connected "T"■ (FCT)

Rear-connected

800–3200 A Rear-connected "T" vertical (RCTV)
 Rear-connected "T" horizontal (RCTH)

2000 A L1/L Rear-connected offset vertical■ (RCOV)
 3200 A (ANSI) Rear-connected offset vertical■ (RCOV)

4000-6300 A Rear connected "T" vertical (RCTV)
 Rear-connected "T" horizontal (RCTH)

Cradle Interlocking and Accessories

Door interlock(VPEL)

Racking interlock between racking crank and Off position —std. on UL/ANSI (IBPO)◆

Racking interlock (VPOC)

Automatic spring discharge (DAE)—std. on UL/ANSI◆

Cradle rejection kit standard

Auxiliary terminal shield

Metering CT (optional for UL/ANSI only)

Lock cradle in all positions—std. on UL/ANSI

Miscellaneous Accessories

Mechanical operation counter

Shutter (Required option for IEC NW circuit breakers)

Shutter with padlock provision and position indicator

Transparent cover (drawout circuit breaker only)

Lifting device for lifting hooks (set of 2)

T-frame, W-frame, or Y-frame circuit breaker lifting bar (short)
 lifting bar (long)

Masterpact NW/NT remote racking device

Test Equipment

Hand-held test kit

Full-function test kit

Test report for circuit breaker, standard for ANSI, check for UL, IEC

Test report for cradle, standard on ANSI, check for UL, IEC

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

Delivery Schedule

Circuit breaker and cradle to be shipped together

Cradle to be shipped prior to circuit breaker

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	
NW08	<input type="checkbox"/>	NW10	<input type="checkbox"/>
NW12	<input type="checkbox"/>	NW12	<input type="checkbox"/>
NW14	<input type="checkbox"/>	NW14	<input type="checkbox"/>
Masterpact Type		NW16	<input type="checkbox"/>
		NW20	<input type="checkbox"/>
		NW25	<input type="checkbox"/>
		NW30	<input type="checkbox"/>
		NW40	<input type="checkbox"/>
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 <input type="checkbox"/> Bottom <input type="checkbox"/>	
	Horizontal	Top <input type="checkbox"/> Bottom <input type="checkbox"/>	

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)	<input type="checkbox"/>	V ac
	<input type="checkbox"/>	V dc
Shunt close (XF)	<input type="checkbox"/>	V ac
	<input type="checkbox"/>	V dc
Shunt Trip (MX1)	<input type="checkbox"/>	V ac
	<input type="checkbox"/>	V dc
Additional shunt trip (MX2)	<input type="checkbox"/>	V ac
OR	<input type="checkbox"/>	V dc
Undervoltage Trip (MN)	-choose one	
	Instantaneous	<input type="checkbox"/> V ac
		<input type="checkbox"/> V dc
	Fixed-time delay	<input type="checkbox"/> V ac
		<input type="checkbox"/> V dc
	Adjustable-time delay	<input type="checkbox"/> V ac
		<input type="checkbox"/> 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 <input type="checkbox"/> Bottom <input type="checkbox"/>
	Horizontal	Top <input type="checkbox"/> Bottom <input type="checkbox"/>

Electrical closing push button (BPFE)	<input type="checkbox"/>
Remote reset after fault trip (RES)	100-130 Vac <input type="checkbox"/>
(incompatible with SDE2)	200-240 Vac <input type="checkbox"/>

Wiring for Cradle	
(Complete only if ordering cradle without circuit breaker)	
Wiring for additional overcurrent trip switch (SED2) 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"/>

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.) 2a + 2b
 8a/8b form C 4a + 4b
 12A/12B form C

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

Additional overcurrent trip switches (choose one)
 (1a/1b form c) (incompatible with RES) (SDE2)
 (1a/1b form c) (incompatible with RES) (low level (SDE2))

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

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

Padlock provision only Std

One key lock

(Select manufacturer below)

Two key locks keyed alike

(Select manufacturer below)

Two key locks keyed differently

(Select manufacturer below)

Key lock manufacturer

Ronis Kirk
 Profalux Castell

Test report for circuit breaker

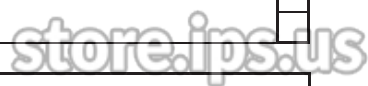
Test report for cradle

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


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 C—Keylock Selection

	<h2>KIRK KEY LOCK</h2>	
<i>Dedicated to Growth • Committed to Quality</i>		
Form Use : To supply order information when the Kirk key lock for the part numbers listed below are ordered.		
Q2C # :	Job Name :	Date Completed :
Line Item(s) :	Completed By :	From (Location) :

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

Square D, Schneider Electric, and Masterpact are trademarks or registered trademarks of Schneider Electric. Other trademarks used herein are the property of their respective owners.

Submit to: Customer Service	At Location: Cedar Rapids Plant	FAX: 319-369-6448
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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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Index of Part Numbers

S434204 35	NT08N 17	NT16L 13	NW08L1 30	NW10NDC 32
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
685829 48	NT10H10 30	NW08H 19	NW08N 17	NW12H10 30
685831 48	NT10H2 25	NW08H1 25	NW08N 19	NW12H2 25
685980 45	NT10H2 27	NW08H1 27	NW08N 21	NW12H2 27
685981 45	NT10HA 26	NW08H1 30	NW08N1 25	NW12H2 30
84956 52	NT10HA 29	NW08H1 4	NW08N1 27	NW12HA 26
84957 52	NT10HA 30	NW08H1 6	NW08N1 30	NW12HA 29
84958 47	NT10HA10 30	NW08H1 8	NW08N1 4	NW12HA10 29
CLUSRETOOL 47	NT10L1 25	NW08H10 27	NW08N1 6	NW12HB 16
CLUSTOOLSK 47	NT10L1 27	NW08H10 30	NW08N1 8	NW12HDC 22
FFTKRPTV10 47	NT10L1 30	NW08H2 25	NW08NA 26	NW12HDC 23
L434063 35	NT12H 13	NW08H2 27	NW08NA 29	NW12HF 14
LV434010 35	NT12H 15	NW08H2 30	NW08NA 30	NW12HF 16
LV434011 35	NT12H 17	NW08H2 4	NW08NA 30	NW12HF 26
LV434063 42	NT12H1 25	NW08H2 6	NW08NA 30	NW12HF 28
LV434128 35	NT12H1 27	NW08H2 8	NW08NA 30	NW12L 15
LV434195 35	NT12H1 30	NW08H3 4	NW08NDC 22	NW12L 17
LV434196 35	NT12H10 30	NW08H3 6	NW08NDC 24	NW12L 19
LV434197 35	NT12H2 25	NW08H3 8	NW10H1 25	NW12L1 27
MICROTUSEAL 47	NT12H2 27	NW08HA 26	NW10H1 27	NW12L1 30
NT08H 13	NT12HA 26	NW08HA 29	NW10H1 30	NW12LF 15
NT08H 15	NT12HA 29	NW08HA 30	NW10H10 27	NW12LF 17
NT08H 17	NT12HA 30	NW08HA 30	NW10H10 30	NW12LF 19
NT08H1 25	NT12HA10 30	NW08HA 30	NW10H2 25	NW12N 13
NT08H1 27	NT12HB 14	NW08HA 30	NW10H2 27	NW12N 15
NT08H1 30	NT12HB 16	NW08HA 5	NW10H2 30	NW12N 17
NT08H1 8	NT12HF 14	NW08HA 7	NW10HA 26	NW12N 19
NT08H10 30	NT12HF 16	NW08HA 8	NW10HA 29	NW12N1 25
NT08H2 25	NT12L 13	NW08HA10 29	NW10HA10 29	NW12N1 27
NT08H2 27	NT12L 15	NW08HA10 30	NW10HADC 32	NW12N1 30
NT08HA 26	NT12L 17	NW08HA10 30	NW10HADC 32	NW12NA 26
NT08HA 29	NT12L1 13	NW08HA10 30	NW10HADC 32	NW12NA 29
NT08HA 30	NT12L1 15	NW08HA10 30	NW10HADC 33	NW12NDC 22
NT08HA 8	NT12L1 17	NW08HB 16	NW10HADC 33	NW12NDC 23
NT08HA10 30	NT12LF 15	NW08HC 5	NW10HADC 33	NW14HDC 22
NT08HB 14	NT12LF 17	NW08HC 8	NW10HDC 23	NW14HDC 23
NT08HB 16	NT12N 13	NW08HDC 22	NW10HDC 32	NW14HDC 22
NT08HF 14	NT12N 15	NW08HF 14	NW10HDC 32	NW14NDC 23
NT08HF 16	NT12N 17	NW08HF 16	NW10HDC 32	NW16H 13
NT08L 13	NT16H 13	NW08HF 26	NW10HDC 33	NW16H 15
NT08L 15	NT16H1 25	NW08HF 28	NW10HDC 33	NW16H 17
NT08L 17	NT16H1 27	NW08HF 30	NW10HDC 33	NW16H 19
NT08L1 13	NT16H1 30	NW08HF 30	NW10HF 26	NW16H1 25
NT08L1 15	NT16H10 30	NW08HF 30	NW10HF 28	NW16H1 27
NT08L1 17	NT16H2 25	NW08HF 30	NW10L1 27	NW16H1 30
NT08L1 25	NT16H2 27	NW08HF 5	NW10L1 30	NW16H1 4
NT08L1 27	NT16HA 26	NW08HF 7	NW10N1 25	NW16H1 6
NT08L1 30	NT16HA 29	NW08HF 8	NW10N1 27	NW16H1 8
NT08LF 15	NT16HA 30	NW08L 15	NW10N1 30	NW16H10 27
NT08LF 17	NT16HA10 30	NW08L 17	NW10NA 26	NW16H10 30
NT08N 13	NT16HB 14	NW08L 19	NW10NA 29	NW16H2 25
NT08N 15	NT16HF 14	NW08L1 27	NW10NDC 23	NW16H2 27

NW16H2 30	NW20H10 30	NW25-30 50	NW32H3 4	NW40HA10 30
NW16H2 4	NW20H2 25	NW25H 13	NW32H3 6	NW40HADC 32
NW16H2 6	NW20H2 27	NW25H 15	NW32H3 8	NW40HADC 32
NW16H2 8	NW20H2 30	NW25H 17	NW32HA 26	NW40HADC 32
NW16H3 4	NW20H2 4	NW25H 19	NW32HA 29	NW40HADC 33
NW16H3 6	NW20H2 6	NW25H1 25	NW32HA 30	NW40HADC 33
NW16H3 8	NW20H2 8	NW25H1 27	NW32HA 5	NW40HADC 33
NW16HA 26	NW20H3 27	NW25H1 30	NW32HA 7	NW40HB 16
NW16HA 29	NW20H3 30	NW25H10 27	NW32HA 8	NW40HC 5
NW16HA 5	NW20H3 4	NW25H10 30	NW32HA10 29	NW40HC 8
NW16HA 7	NW20H3 6	NW25H2 25	NW32HA10 30	NW40HDC 22
NW16HA 8	NW20H3 8	NW25H2 27	NW32HC 5	NW40HDC 23
NW16HA10 29	NW20HA 26	NW25H2 30	NW32HC 8	NW40HDC 32
NW16HB 16	NW20HA 29	NW25H3 27	NW32HF 26	NW40HDC 32
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
NW16N1 25	NW20HF 30	NW30HF 16	NW40H1 25	NW50H1 25
NW16N1 27	NW20HF 5	NW30L 15	NW40H1 28	NW50H1 28
NW16N1 30	NW20HF 7	NW30L 17	NW40H1 30	NW50H1 30
NW16N1 4	NW20HF 8	NW30L 19	NW40H10 28	NW50H2 25
NW16N1 6	NW20L 15	NW30NDC 22	NW40H10 30	NW50H2 28
NW16N1 8	NW20L 17	NW30NDC 23	NW40H2 25	NW50H2 30
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
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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
S48857	49	S48964	51	S64140	50	SMCT2000R	45	TRV00810	35
S48859	38	S48964Q	51	S64141	50	SMCT2000Y	45	TRV00820	35
S48860	38	S48964Q	51	S64142	50	SMCT250	45	TRV00830	35
S48896	36	S48965	51	S64143	50	SMCT2500R	45	TRV00850	35
S48896	37	S48965	51	S64144	50	SMCT2500Y	45	TRV00870	35
S48896	37	S48965	51	S64145	50	SMCT3000R	45	TRV00880	35
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
S48898	37	S48965Q	51	S64149	50	SMCT400	45	VW3A8306DRC	35
S48898	37	S48965Q	51	S64150	50	SMCT4000Y	45		
S48899	47	S48966	51	S64151	50	SMCT5000Y	45		
S48900	48	S48966	51	S64152	50	SMCT600	45		
S48901	48	S48966Q	51	S64153	50	SMCT6000Y	45		
S48902	37	S48966Q	51	S64154	50	SMCT800	45		
S48902	37	S48969	51	S64155	50	SRCOV32B	9		
S48903	37	S48969	51	S64156	50	SRCOV32T	9		
S48903	37	S48969	51	S64157	50	SRCOV40	9		
S48906	48	S48969	51	S64158	50	SRCOV40	9		
S48907	47	S48969Q	51	S64159	50	SRCTH40	31		
S48908	47	S48969Q	51	S64160	50	SRCTH40	31		
S48912	46	S48969Q	51	S64161	52	SRCTV12	9		
S48913	46	S48969Q	51	S64162	52	SRCTV12	9		
S48914	46	S48970	51	S64163	52	SRCTV16	31		
S48916	37	S48970	51	S64164	52	SRCTV16	31		
S48916	37	S48970Q	51	S64169	50	SRCTV16	31		
S48917	44	S48970Q	51	S64170	50	SRCTV16	31		
S48918	44	S48973	51	SFCF12	9	SRCTV20	18		
S48919	44	S48973	51	SFCF12	9	SRCTV20	18		
S48923	44	S48973	51	SFCF16B	31	SRCTV20	18		
S48924	44	S48973	51	SFCF16F	31	SRCTV20	18		
S48925	44	S48974	51	SFCF16F	31	SRCTV20	9		
S48929	43	S48974	51	SFCF16T	31	SRCTV20	9		
S48930	43	S48976Q	51	SFCF20B	18	SRCTV30	18		
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S48934	42	S48977Q	51	SFCF20FB	18	SRCTV30	18		
S48939	41	S48977Q	51	SFCF20FB	9	SRCTV30	18		
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S48947	41	S48978Q	51	SFCF20FT	9	SRCTV32	31		
S48951	51	S64120B	50	SFCF20T	18	SRCTV40	31		
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S48951Q	51	S64121	50	SFCF32	31	SRCTV50	18		
S48951Q	51	S64122	50	SFCF32	31	SRCTV50	18		
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S48957Q	51	S64130	50	SFCT30	9	SRSA16	31		
S48957Q	51	S64131B	50	SFCT30	9	SRSA16	31		

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