

3VA Molded Case Circuit Breakers

3VA UL Breakers

Catalog Numbering System

Catalog Numbering Logic



Breaker Designation	
Thermal magnetic panelboard breakers	4
Thermal magnetic (Cable-in Cable-out) breakers	5
Electronic trip breakers	6

Frame Size	
125/150A	1
250A	2
400A	3
600A	4
800A	5
1000A	6
1200A	7
1600A	8
2000A	9

Rated Current																	
3VA41/ 3VA51	3VA52	3VA53	3VA54	3VA55	3VA57	3VA58	3VA59	3VA61	3VA62	3VA63	3VA64	3VA65	3VA66	3VA67	3VA68	3VA69	
15A																	95
20A	200A	200A															20
	225A	225A															22
25A	250A	250A						250A	250A								25
30A		300A															30
35A		350A															35
40A	40A	400A						40A		400A	400A						40
45A	45A		450A														45
50A	50A		500A														50
60A	60A		600A	600A							600A	600A					60
70A	70A			700A													70
80A	80A			800A	800A							800A		800A			80
90A	90A				900A												90
100A	100A				1000A			100A	100A				1000A	1000A			10
110A	110A																11
125A	125A				1200A									1200A			12
						1400A											14
	150A							150A									15
						1600A								1600A			16
	175A																17
								1800A									18
								2000A								2000A	20

Interrupting Capacity @ 480V		
3VA4/3VA5	3VA6	
MCP/MCS	200K	0
MCP/MCS	MCP/MCS	1
25K		4
35K	35K	5
65K	65K	6
100K	100K	7
	150K	8

(see next page for details)

Catalog Numbering Logic (cont.)



(see previous page for details)

Trip Unit Protection Functions										
3VA4/3VA5		L	I	N						
TM230	MCCB	fix	adj							EC
TM210	MCCB	fix	fix							ED
TM240	MCCB	adj	adj							EF
TM230	MCCB	fix	adj	100%						GC
TM210	MCCB	fix	fix	100%						GD
TM240	MCCB	adj	adj	100%						GF
TM110M	MSP		fix							MG
TM120M	MSP		adj							MH
TM120M	MSP		adj							MU
MCS110	MSC		fix							BB
3VA6		L	S	I	G	N	LCD	com.	measurement values	
ETU320 LI	MCCB	adj		adj		0%/50%/100%				HL
ETU330 LIG	MCCB	adj		adj	adj	0%/50%/100%				HM
ETU350 LSI	MCCB	adj	adj	fix		0%/50%/100%				HN
ETU360 LSIG	MCCB	adj	adj	adj	adj	0%/50%/100%				HQ
ETU550 LSI	MCCB	adj	adj	adj		20/40%...100/160%	yes	yes	standard	JP
ETU556 LSI(G)	MCCB	adj	adj	adj	alarm	20/40%...100/160%	yes	yes	standard	JT
ETU560 LSIG	MCCB	adj	adj	adj	adj	20/40%...100/160%	yes	yes	standard	JQ
ETU820 LI	MCCB	adj		adj		20/40%...100/160%	yes	yes	advanced	KL
ETU830 LIG	MCCB	adj		adj	adj	20/40%...100/160%	yes	yes	advanced	KM
ETU850LSI	MCCB	adj	adj	adj		20/40%...100/160%	yes	yes	advanced	KP
ETU856 LSI(G)	MCCB	adj	adj	adj	alarm	20/40%...100/160%	yes	yes	advanced	KT
ETU860 LSIG	MCCB	adj	adj	adj	adj	20/40%...100/160%	yes	yes	advanced	KQ
ETU310M	MCP			adj						MS
MCS110	MCS			fix						BB

Number of Poles	
1 pole	1
2 pole	2
3 pole	3
4 pole	4
1-in-2 pole	5
2-in-3 pole	6

Connection Technology	
No wire connector	1
Nut keeper kit, line and load	2
Nut keeper kit, load end only	3
Aluminum wire connector, load end only	4
Wire connector, line end only	5
Wire connector, line and load	6

Regional Specifics (as applicable)	
Standard	0
NAVAL/50C	1
100% Rated (3VA6)	2

Auxiliary Releases	Without	A
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Auxiliary/Alarm Switches	Without	A0
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3VA Molded Case Circuit Breakers

3VA51 125A Thermal-magnetic Trip Circuit Breakers

Selection

3VA51 125A Frame, 1-Pole Thermal-Magnetic Trip Unit

Cont. Ampere Rating	S-Interrupting Class (SEAS)	M-Interrupting Class (MEAS)	H-Interrupting Class (HEAS)
	Catalog Number	Catalog Number	Catalog Number
TM210 FTFM			
15	3VA5195-4ED11-0AA0	3VA5195-5ED11-0AA0	3VA5195-6ED11-0AA0
20	3VA5120-4ED11-0AA0	3VA5120-5ED11-0AA0	3VA5120-6ED11-0AA0
25	3VA5125-4ED11-0AA0	3VA5125-5ED11-0AA0	3VA5125-6ED11-0AA0
30	3VA5130-4ED11-0AA0	3VA5130-5ED11-0AA0	3VA5130-6ED11-0AA0
35	3VA5135-4ED11-0AA0	3VA5135-5ED11-0AA0	3VA5135-6ED11-0AA0
40	3VA5140-4ED11-0AA0	3VA5140-5ED11-0AA0	3VA5140-6ED11-0AA0
45	3VA5145-4ED11-0AA0	3VA5145-5ED11-0AA0	3VA5145-6ED11-0AA0
50	3VA5150-4ED11-0AA0	3VA5150-5ED11-0AA0	3VA5150-6ED11-0AA0
60	3VA5160-4ED11-0AA0	3VA5160-5ED11-0AA0	3VA5160-6ED11-0AA0
70	3VA5170-4ED11-0AA0	3VA5170-5ED11-0AA0	3VA5170-6ED11-0AA0
80	3VA5180-4ED11-0AA0	3VA5180-5ED11-0AA0	3VA5180-6ED11-0AA0
90	3VA5190-4ED11-0AA0	3VA5190-5ED11-0AA0	3VA5190-6ED11-0AA0
100	3VA5110-4ED11-0AA0	3VA5110-5ED11-0AA0	3VA5110-6ED11-0AA0
110	3VA5111-4ED11-0AA0	3VA5111-5ED11-0AA0	3VA5111-6ED11-0AA0
125	3VA5112-4ED11-0AA0	3VA5112-5ED11-0AA0	3VA5112-6ED11-0AA0



3VA51 125A Frame, 2-Pole Thermal-Magnetic Trip Unit

Cont. Ampere Rating	S-Interrupting Class (SEAS)	M-Interrupting Class (MEAS)	H-Interrupting Class (HEAS)
	Catalog Number	Catalog Number	Catalog Number
TM210 FTFM[Ⓞ]			
15	3VA5195-4ED21-0AA0	3VA5195-5ED21-0AA0	3VA5195-6ED21-0AA0
20	3VA5120-4ED21-0AA0	3VA5120-5ED21-0AA0	3VA5120-6ED21-0AA0
25	3VA5125-4ED21-0AA0	3VA5125-5ED21-0AA0	3VA5125-6ED21-0AA0
30	3VA5130-4ED21-0AA0	3VA5130-5ED21-0AA0	3VA5130-6ED21-0AA0
35	3VA5135-4ED21-0AA0	3VA5135-5ED21-0AA0	3VA5135-6ED21-0AA0
40	3VA5140-4ED21-0AA0	3VA5140-5ED21-0AA0	3VA5140-6ED21-0AA0
45	3VA5145-4ED21-0AA0	3VA5145-5ED21-0AA0	3VA5145-6ED21-0AA0
50	3VA5150-4ED21-0AA0	3VA5150-5ED21-0AA0	3VA5150-6ED21-0AA0
60	3VA5160-4ED21-0AA0	3VA5160-5ED21-0AA0	3VA5160-6ED21-0AA0
70	3VA5170-4ED21-0AA0	3VA5170-5ED21-0AA0	3VA5170-6ED21-0AA0
80	3VA5180-4ED21-0AA0	3VA5180-5ED21-0AA0	3VA5180-6ED21-0AA0
90	3VA5190-4ED21-0AA0	3VA5190-5ED21-0AA0	3VA5190-6ED21-0AA0
100	3VA5110-4ED21-0AA0	3VA5110-5ED21-0AA0	3VA5110-6ED21-0AA0
110	3VA5111-4ED21-0AA0	3VA5111-5ED21-0AA0	3VA5111-6ED21-0AA0
125	3VA5112-4ED21-0AA0	3VA5112-5ED21-0AA0	3VA5112-6ED21-0AA0



Ordering Information

The catalog numbers listed here are for complete, non-interchangeable trip circuit breakers without lugs.

For factory installed nut keepers (3VA91330QA00), change the 12th digit of the catalog number to "2". (For example, a 35KA @480VAC, 40A, 3-pole, 3VA51 with nut keepers would be catalog number 3VA5140-5ED3**2**-0AA0).

For factory installed standard line and load lugs, change the 12th digit to "6" (standard lugs are identified in the lug table). (For example, a 35KA @480VAC, 40A, 3-pole, 3VA51 with lugs would be catalog number 3VA5140-5ED3**6**-0AA0). Alternate connectors can be ordered separately for field installation.

For NAVAL-rated thermal-magnetic trip circuit breakers, change the 13th digit of the catalog number to the number "1". (For example, a 35KA @480VAC, 40A, 3-pole, NAVAL rated 3VA51 would be catalog number 3VA5140-5ED3**1**AA0)

All 3VA51 thermal-magnetic trip circuit breakers are UL listed for reverse feed applications.

Interrupting Ratings for 3VA51

Inter-rupting Class	Breaker Type	Poles	RMS Symmetrical Amperes (kA)										
			Volts AC (50/60 Hz)							Volts DC			
			120	240	277	347	480Y/ 277V	480	600Y/ 347V	125	250	500 ^②	600 ^②
S	SEAS	1	65		25	14					14		
		2, 3, 4		65			25	25	14	14	50	50	50
M	MEAS	1	85		35	18					25		
		2, 3, 4		85			35	35	18	25	85	85	85
H	HEAS	1	150		50	18					30		
		2, 3, 4		150			65	65	25	30	100	100	100

[Ⓞ] Available with NAVAL/50C ratings.

^② Applies to 3VA51 3-Pole

3VA Molded Case Circuit Breakers

3VA51 125A Thermal-magnetic Trip Circuit Breakers

Selection

3VA51 125A Frame, 3-Pole Thermal-Magnetic Trip Unit

Cont. Ampere Rating	S-Interrupting Class (SEAS)	M-Interrupting Class (MEAS)	H-Interrupting Class (HEAS)
	Catalog Number	Catalog Number	Catalog Number
TM210 FTFM[Ⓞ]			
15	3VA5195-4ED31-0AA0	3VA5195-5ED31-0AA0	3VA5195-6ED31-0AA0
20	3VA5120-4ED31-0AA0	3VA5120-5ED31-0AA0	3VA5120-6ED31-0AA0
25	3VA5125-4ED31-0AA0	3VA5125-5ED31-0AA0	3VA5125-6ED31-0AA0
30	3VA5130-4ED31-0AA0	3VA5130-5ED31-0AA0	3VA5130-6ED31-0AA0
35	3VA5135-4ED31-0AA0	3VA5135-5ED31-0AA0	3VA5135-6ED31-0AA0
40	3VA5140-4ED31-0AA0	3VA5140-5ED31-0AA0	3VA5140-6ED31-0AA0
45	3VA5145-4ED31-0AA0	3VA5145-5ED31-0AA0	3VA5145-6ED31-0AA0
50	3VA5150-4ED31-0AA0	3VA5150-5ED31-0AA0	3VA5150-6ED31-0AA0
60	3VA5160-4ED31-0AA0	3VA5160-5ED31-0AA0	3VA5160-6ED31-0AA0
70	3VA5170-4ED31-0AA0	3VA5170-5ED31-0AA0	3VA5170-6ED31-0AA0
80	3VA5180-4ED31-0AA0	3VA5180-5ED31-0AA0	3VA5180-6ED31-0AA0
90	3VA5190-4ED31-0AA0	3VA5190-5ED31-0AA0	3VA5190-6ED31-0AA0
100	3VA5110-4ED31-0AA0	3VA5110-5ED31-0AA0	3VA5110-6ED31-0AA0
110	3VA5111-4ED31-0AA0	3VA5111-5ED31-0AA0	3VA5111-6ED31-0AA0
125	3VA5112-4ED31-0AA0	3VA5112-5ED31-0AA0	3VA5112-6ED31-0AA0
TM230 FTAM[Ⓞ]			
15	3VA5195-4EC31-0AA0	3VA5195-6EC31-0AA0	3VA5195-6EC31-0AA0
20	3VA5120-4EC31-0AA0	3VA5120-5EC31-0AA0	3VA5120-6EC31-0AA0
25	3VA5125-4EC31-0AA0	3VA5125-5EC31-0AA0	3VA5125-6EC31-0AA0
30	3VA5130-4EC31-0AA0	3VA5130-5EC31-0AA0	3VA5130-6EC31-0AA0
35	3VA5135-4EC31-0AA0	3VA5135-5EC31-0AA0	3VA5135-6EC31-0AA0
40	3VA5140-4EC31-0AA0	3VA5140-5EC31-0AA0	3VA5140-6EC31-0AA0
45	3VA5145-4EC31-0AA0	3VA5145-5EC31-0AA0	3VA5145-6EC31-0AA0
50	3VA5150-4EC31-0AA0	3VA5150-5EC31-0AA0	3VA5150-6EC31-0AA0
60	3VA5160-4EC31-0AA0	3VA5160-5EC31-0AA0	3VA5160-6EC31-0AA0
70	3VA5170-4EC31-0AA0	3VA5170-5EC31-0AA0	3VA5170-6EC31-0AA0
80	3VA5180-4EC31-0AA0	3VA5180-5EC31-0AA0	3VA5180-6EC31-0AA0
90	3VA5190-4EC31-0AA0	3VA5190-5EC31-0AA0	3VA5190-6EC31-0AA0
100	3VA5110-4EC31-0AA0	3VA5110-5EC31-0AA0	3VA5110-6EC31-0AA0
110	3VA5111-4EC31-0AA0	3VA5111-5EC31-0AA0	3VA5111-6EC31-0AA0
125	3VA5112-4EC31-0AA0	3VA5112-5EC31-0AA0	3VA5112-6EC31-0AA0
TM240 ATAM			
15	3VA5195-4EF31-0AA0	3VA5195-5EF31-0AA0	3VA5195-6EF31-0AA0
20	3VA5120-4EF31-0AA0	3VA5120-5EF31-0AA0	3VA5120-6EF31-0AA0
30	3VA5130-4EF31-0AA0	3VA5130-5EF31-0AA0	3VA5130-6EF31-0AA0
40	3VA5140-4EF31-0AA0	3VA5140-5EF31-0AA0	3VA5140-6EF31-0AA0
50	3VA5150-4EF31-0AA0	3VA5150-5EF31-0AA0	3VA5150-6EF31-0AA0
60	3VA5160-4EF31-0AA0	3VA5160-5EF31-0AA0	3VA5160-6EF31-0AA0
70	3VA5170-4EF31-0AA0	3VA5170-5EF31-0AA0	3VA5170-6EF31-0AA0
80	3VA5180-4EF31-0AA0	3VA5180-5EF31-0AA0	3VA5180-6EF31-0AA0
100	3VA5110-4EF31-0AA0	3VA5110-5EF31-0AA0	3VA5110-6EF31-0AA0



3VA51 125A 3-Pole

Enclosures (3-pole only)

Nema Type	Catalog Number
1 surface	3VAE125N1S
1 flush	3VAE125N1F
3R	3VAE125N3R
12	3VAE125N12
4X (304)	3VAE125N4X
4X (316)	3VAE125N4X316
Neutral	N125X

Dimensions

Breaker	Poles	W in. (mm)	H in. (mm)	D in. (mm)	lbs.	kg
3VA51	1	1 (25.4)	5.5 (140)	3 (76.5)	0.84	0.38
3VA51	2	2 (50.8)	5.5 (140)	3 (76.5)	1.37	0.62
3VA51	3	3 (76.2)	5.5 (140)	3 (76.5)	1.73	0.78
3VA51	4	4 (101.6)	5.5 (140)	3 (76.5)	2.09	0.95

Shipping Weight

Ⓞ Available with NAVAL/50C ratings.

3VA Molded Case Circuit Breakers

3VA51 125A Thermal-magnetic Trip Circuit Breakers

Selection

3VA51 125A Frame, 4-Pole Thermal-Magnetic Trip Unit



3VA51 125A 4-Pole

Cont. Ampere Rating	S-Interrupting Class (SEAS)	M-Interrupting Class (MEAS)	H-Interrupting Class (HEAS)
	Catalog Number	Catalog Number	Catalog Number

TM210 FTFM Unprotected Neutral

15	3VA5195-4ED41-0AA0	3VA5195-5ED41-0AA0	3VA5195-6ED41-0AA0
20	3VA5120-4ED41-0AA0	3VA5120-5ED41-0AA0	3VA5120-6ED41-0AA0
25	3VA5125-4ED41-0AA0	3VA5125-5ED41-0AA0	3VA5125-6ED41-0AA0
30	3VA5130-4ED41-0AA0	3VA5130-5ED41-0AA0	3VA5130-6ED41-0AA0
35	3VA5135-4ED41-0AA0	3VA5135-5ED41-0AA0	3VA5135-6ED41-0AA0
40	3VA5140-4ED41-0AA0	3VA5140-5ED41-0AA0	3VA5140-6ED41-0AA0
45	3VA5145-4ED41-0AA0	3VA5145-5ED41-0AA0	3VA5145-6ED41-0AA0
50	3VA5150-4ED41-0AA0	3VA5150-5ED41-0AA0	3VA5150-6ED41-0AA0
60	3VA5160-4ED41-0AA0	3VA5160-5ED41-0AA0	3VA5160-6ED41-0AA0
70	3VA5170-4ED41-0AA0	3VA5170-5ED41-0AA0	3VA5170-6ED41-0AA0
80	3VA5180-4ED41-0AA0	3VA5180-5ED41-0AA0	3VA5180-6ED41-0AA0
90	3VA5190-4ED41-0AA0	3VA5190-5ED41-0AA0	3VA5190-6ED41-0AA0
100	3VA5110-4ED41-0AA0	3VA5110-5ED41-0AA0	3VA5110-6ED41-0AA0
110	3VA5111-4ED41-0AA0	3VA5111-5ED41-0AA0	3VA5111-6ED41-0AA0
125	3VA5112-4ED41-0AA0	3VA5112-5ED41-0AA0	3VA5112-6ED41-0AA0

TM210 FTFM 100% Neutral

90	3VA5190-4GD41-0AA0	3VA5190-5GD41-0AA0	3VA5190-6GD41-0AA0
100	3VA5110-4GD41-0AA0	3VA5110-5GD41-0AA0	3VA5110-6GD41-0AA0
110	3VA5111-4GD41-0AA0	3VA5111-5GD41-0AA0	3VA5111-6GD41-0AA0
125	3VA5112-4GD41-0AA0	3VA5112-5GD41-0AA0	3VA5112-6GD41-0AA0

TM230 FTAM Unprotected Neutral

15	3VA5195-4EC41-0AA0	3VA5195-5EC41-0AA0	3VA5195-6EC41-0AA0
20	3VA5120-4EC41-0AA0	3VA5120-5EC41-0AA0	3VA5120-6EC41-0AA0
25	3VA5125-4EC41-0AA0	3VA5125-5EC41-0AA0	3VA5125-6EC41-0AA0
30	3VA5130-4EC41-0AA0	3VA5130-5EC41-0AA0	3VA5130-6EC41-0AA0
35	3VA5135-4EC41-0AA0	3VA5135-5EC41-0AA0	3VA5135-6EC41-0AA0
40	3VA5140-4EC41-0AA0	3VA5140-5EC41-0AA0	3VA5140-6EC41-0AA0
45	3VA5145-4EC41-0AA0	3VA5145-5EC41-0AA0	3VA5145-6EC41-0AA0
50	3VA5150-4EC41-0AA0	3VA5150-5EC41-0AA0	3VA5150-6EC41-0AA0
60	3VA5160-4EC41-0AA0	3VA5160-5EC41-0AA0	3VA5160-6EC41-0AA0
70	3VA5170-4EC41-0AA0	3VA5170-5EC41-0AA0	3VA5170-6EC41-0AA0
80	3VA5180-4EC41-0AA0	3VA5180-5EC41-0AA0	3VA5180-6EC41-0AA0
90	3VA5190-4EC41-0AA0	3VA5190-5EC41-0AA0	3VA5190-6EC41-0AA0
100	3VA5110-4EC41-0AA0	3VA5110-5EC41-0AA0	3VA5110-6EC41-0AA0
110	3VA5111-4EC41-0AA0	3VA5111-5EC41-0AA0	3VA5111-6EC41-0AA0
125	3VA5112-4EC41-0AA0	3VA5112-5EC41-0AA0	3VA5112-6EC41-0AA0

TM230 FTFM 100% Neutral

90	3VA5190-4GC41-0AA0	3VA5190-5GC41-0AA0	3VA5190-6GC41-0AA0
100	3VA5110-4GC41-0AA0	3VA5110-5GC41-0AA0	3VA5110-6GC41-0AA0
110	3VA5111-4GC41-0AA0	3VA5111-5GC41-0AA0	3VA5111-6GC41-0AA0
125	3VA5112-4GC41-0AA0	3VA5112-5GC41-0AA0	3VA5112-6GC41-0AA0

TM240 ATAM Unprotected Neutral

15	3VA5195-4EF41-0AA0	3VA5195-5EF41-0AA0	3VA5195-6EF41-0AA0
20	3VA5120-4EF41-0AA0	3VA5120-5EF41-0AA0	3VA5120-6EF41-0AA0
30	3VA5130-4EF41-0AA0	3VA5130-5EF41-0AA0	3VA5130-6EF41-0AA0
40	3VA5140-4EF41-0AA0	3VA5140-5EF41-0AA0	3VA5140-6EF41-0AA0
50	3VA5150-4EF41-0AA0	3VA5150-5EF41-0AA0	3VA5150-6EF41-0AA0
60	3VA5160-4EF41-0AA0	3VA5160-5EF41-0AA0	3VA5160-6EF41-0AA0
70	3VA5170-4EF41-0AA0	3VA5170-5EF41-0AA0	3VA5170-6EF41-0AA0
80	3VA5180-4EF41-0AA0	3VA5180-5EF41-0AA0	3VA5180-6EF41-0AA0
100	3VA5110-4EF41-0AA0	3VA5110-5EF41-0AA0	3VA5110-6EF41-0AA0

TM240 ATAM 100% Neutral

100	3VA5110-4GF41-0AA0	3VA5110-5GF41-0AA0	3VA5110-6GF41-0AA0
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Trip Settings for 3VA51

TM210 - FTFM		
I _n (A)	I _r (A)	I _i (A)
15	15	300
20	20	300
25	25	300
30	30	300
35	35	350
40	40	400
45	45	450
50	50	500
60	60	600
70	70	700
80	80	800
90	90	900
100	100	1000
110	110	1100
125	125	1250

TM230 - FTAM							
I _n (A)	I _r (A)	I _i (A)					
15	15	150	180	210	240	270	300
20	20	150	180	210	240	270	300
25	25	150	180	210	240	270	300
30	30	150	180	210	240	270	300
35	35	175	210	245	280	315	350
40	40	200	240	280	320	360	400
45	45	225	270	315	360	405	450
50	50	250	300	350	400	450	500
60	60	300	360	420	480	540	600
70	70	350	420	490	560	630	700
80	80	400	480	560	640	720	800
90	90	450	540	630	720	810	900
100	100	500	600	700	800	900	1000
110	110	550	660	770	880	990	1100
125	125	625	750	875	1000	1125	1250

TM240 - ATAM									
I _n (A)	I _r (A) 90%	I _r (A) 80%	I _i (A)						
15	14	12	150	180	210	240	270	300	
20	18	16	150	180	210	240	270	300	
30	27	24	150	180	210	240	270	300	
40	36	32	200	240	280	320	360	400	
50	45	40	250	300	350	400	450	500	
60	54	48	300	360	420	480	540	600	
70	63	56	350	420	490	560	630	700	
80	72	64	400	480	560	640	720	800	
100	90	80	500	600	700	800	900	1000	

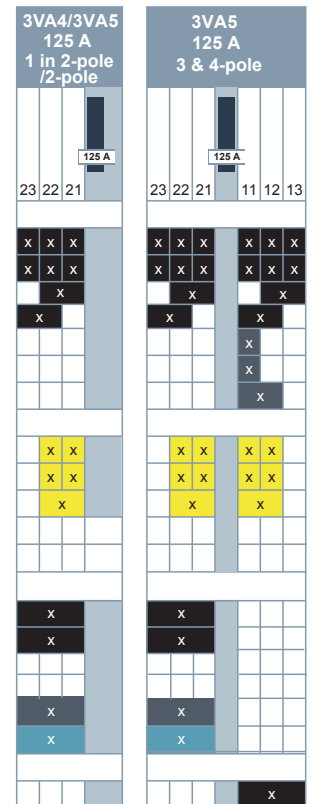
Connectors for 75C Wire for 3VA51

Type	Min. cable size	Max. cable size	Catalog No. (kit of 3 lugs)	Catalog No. (kit of 4 lugs)
Steel wrap around (Cu cable only), 1 cable lugs	AWG 14	3/0	3VA9133-0JA11	3VA9134-0JA11
Aluminum body lug small (Cu/Al cable), 1 cable lug ^①	AWG 14	AWG 8	3VA9133-0JB10	3VA9134-0JB10
Aluminum body lug (Cu/Al cable), 1 cable lugs ^{②③}	AWG 8	3/0	3VA9133-0JB11	3VA9134-0JB11
Aluminum body lug small with control wire tap (Cu/Al cable), 1 cable lug ^①	AWG 14	AWG 8	3VA9133-0JG10	3VA9134-0JG10
Aluminum body lug with control wire tap (Cu/Al cable), 1 cable lugs ^②	AWG 8	3/0	3VA9133-0JG11	3VA9134-0JG11
Aluminum body lug large (Cu/Al cable), 1 cable lugs with 1 extended terminal cover	AWG 4	300 kcmil	3VA9133-0JJ12	3VA9134-0JJ12
Aluminum body lug large with control wire tap (Cu/Al cable), 1 cable lug and 1 extended terminal cover	AWG 4	300 kcmil	3VA9133-0JC12	
Distribution lug, 6 cables (Cu/Al cable), 1 cable lugs with 1 extended terminal cover	AWG 14	AWG 2	3VA9133-0JF60	3VA9134-0JF60
Copper body lug small (Cu cable only), 1 cable lugs ^①	AWG 14	AWG 8	3VA9133-0JD10	3VA9134-0JD10
Copper body lug (Cu cable only), 1 cable lugs ^②	AWG 8	2/0	3VA9133-0JD11	3VA9134-0JD11
Copper body lug small with control wire tap (Cu cable only), 1 cable lugs ^①	AWG 14	AWG 8	3VA9133-0JK10	3VA9134-0JK10
Copper body lug with control wire tap (Cu cable only), 1 cable lugs ^②	AWG 8	2/0	3VA9133-0JK11	3VA9134-0JK11

① Use these lugs on 15A to 40A breakers.
 ② Use these lugs on 45A to 125A breakers.

③ Standard lug installed at the factory when breaker ordered with a "6" in the 12th position.

Internal accessories configuration	
	Slot No.:
Auxiliary switch	Type
	AUX_HQ
Auxiliary switch	AUX_HQ_el
	AUX_HP
Leading changeover switch	LCS_HQ
	LCS_HQ_el
	LCS_HP
Alarm switch	Type
	TAS_HQ
Trip alarm switch	TAS_HQ_el
	TAS_HP
Short circuit alarm switch	SAS_HQ
	SAS_HQ_el
Auxiliary release	Type
Shunt trip flexible	STF
Shunt trip left	STL
	STL_el
Residual current release	RCR
Undervoltage release	UVR
Universal release	UNI
Other	
Cylinder lock (type Ronis)	

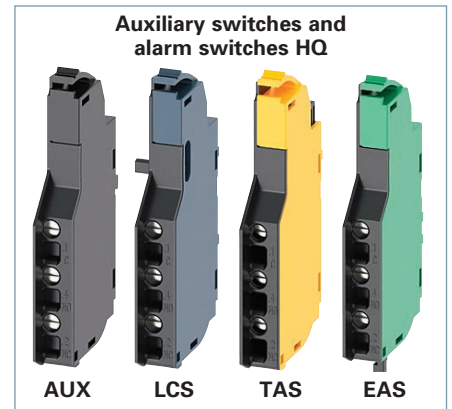


17 MOLDED CASE CIRCUIT BREAKERS

Internal Accessories^③

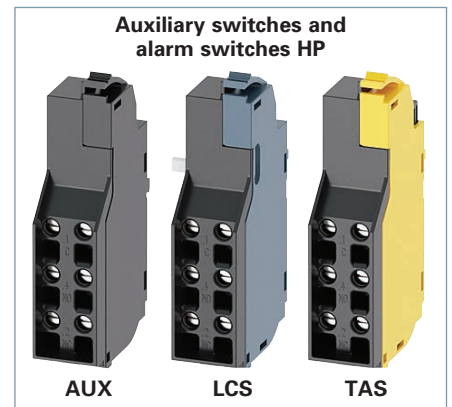
Auxiliary and Alarm Switches (Form C → 1 NO and 1 NC)

Switch Type	Width	AC 50/60 Hz	DC	Catalog Number
Auxiliary Switch (AUX) HQ	1 slot	24 ... 300V	24 ... 250V	3VA9978-0AA12
Leading Changeover Switch (LCS) HQ				3VA9978-0AA22
Trip/Bell Alarm Switch (TAS) HQ				3VA9978-0AB12
Electronic Alarm (EAS) HQ electronic ^①				3VA9978-0AB22
Auxiliary Switch (AUX) HP	2 slots	24 ... 600V	24 ... 250V	3VA9978-0AA11
Leading Changeover Switch (LCS) HP				3VA9978-0AA21
Trip/Bell Alarm Switch (TAS) HP				3VA9978-0AB11
Electronic Alarm (EAS) HP ^①				—
Auxiliary Switch (AUX) HQ electronic	1 slot	24 ... 300V	24 ... 250V	3VA9978-0AA13
Leading Changeover Switch (LCS) HQ electronic				3VA9978-0AA23
Trip/Bell Alarm Switch (TAS) HQ electronic				3VA9978-0AB13
Electronic Alarm (EAS) HQ electronic ^①				3VA9978-0AB23



Shunt Trips

Type	VAC 50/60 Hz	VDC	Catalog Number (3 slots)
Shunt Trip Left (STL)	380 ... 600	—	3VA9978-0BL20
	—	12	3VA9978-0BL10
	24	24 ... 30	3VA9978-0BL30
	48 ... 60	48 ... 60	3VA9978-0BL31
	110 ... 127	110 ... 127	3VA9978-0BL32
	208 ... 277	220 ... 250	3VA9978-0BL33
Shunt Trip Flexible (STF) ^②	24	—	3VA9978-0BA20
	48 ... 60	—	3VA9978-0BA21
	110 ... 127	—	3VA9978-0BA22
	208 ... 277	—	3VA9978-0BA23
	380 ... 500	—	3VA9978-0BA24
	600	—	3VA9978-0BA25



Undervoltage Release

Type	VAC 50/60 Hz	VDC	Catalog Number
Undervoltage Release (UVR)	—	12	3VA9978-0BB10
	—	24	3VA9978-0BB11
	—	48	3VA9978-0BB12
	—	125 ... 127	3VA9978-0BB14
	—	250	3VA9978-0BB16
	24	—	3VA9978-0BB20
	120 ... 127	—	3VA9978-0BB24
	208 ... 230	—	3VA9978-0BB25
	440 ... 480	—	3VA9978-0BB27



Universal Release (Undervoltage and Shunt trip)

Type	VAC 50/60 Hz	VDC	Catalog Number
Universal Release (UNI)	—	12	3VA9978-0BD11
	—	24	3VA9978-0BD12
	—	48	3VA9978-0BD13



Time-delay Device for Undervoltage Release


Type	VAC 50/60 Hz	VDC	Delay Time	Catalog Number
Time-delay Device (mounted external to circuit breaker)	230	230	Fixed – 100ms minimum	3VA9978-0BF22
	—	24	Fixed – 100ms minimum	3VA9978-0BF23

① Use only with 3VA6.

② Shunt trip flexible can be used in the left pocket of the 3VA5 breakers. They can be used in the left or right pocket of the 3VA6 breakers.

③ Refer to pages 17/91 and 17/92 for internal accessory electrical requirements.

Front Mounted Rotary Operator



	Type	Color	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A- 2000A	Catalog Number
 <p>Degree of protection NEMA 1</p>	Standard without illumination kit	Gray	✓	—	—	—	—	—	3VA9137-0EK11
			—	✓	✓	—	—	—	3VA9277-0EK11
			—	—	—	✓	—	—	3VA9447-0EK11
			—	—	—	—	✓	—	3VA9677-0EK11
			—	—	—	—	—	✓	3VA9877-0EK11
	Standard with illumination kit	Gray	✓	—	—	—	—	—	3VA9137-0EK13
			—	✓	✓	—	—	—	3VA9277-0EK13
			—	—	—	✓	—	—	3VA9447-0EK13
	EMERGENCY-OFF without illumination kit	Yellow-Red	✓	—	—	—	—	—	3VA9137-0EK15
			—	✓	✓	—	—	—	3VA9277-0EK15
			—	—	—	✓	—	—	3VA9447-0EK15
			—	—	—	—	✓	—	3VA9677-0EK15
	EMERGENCY-OFF with illumination kit	Yellow-Red	✓	—	—	—	—	—	3VA9137-0EK17
			—	✓	✓	—	—	—	3VA9277-0EK17
			—	—	—	✓	—	—	3VA9447-0EK17
			—	—	—	—	✓	—	3VA9677-0EK17
	Standard with door interlock	Gray	✓	—	—	—	—	—	3VA9137-0EK21
			—	✓	✓	—	—	—	3VA9277-0EK21
			—	—	—	✓	—	—	3VA9447-0EK21
			—	—	—	—	✓	—	3VA9677-0EK21
	Standard with door interlock, with illumination kit	Gray	✓	—	—	—	—	—	3VA9137-0EK23
			—	✓	✓	—	—	—	3VA9277-0EK23
			—	—	—	✓	—	—	3VA9447-0EK23
	EMERGENCY-OFF with door interlock	Yellow-Red	✓	—	—	—	—	—	3VA9137-0EK25
—			✓	✓	—	—	—	3VA9277-0EK25	
—			—	—	✓	—	—	3VA9447-0EK25	
—			—	—	—	✓	—	3VA9677-0EK25	
EMERGENCY-OFF with door interlock, with illumination kit	Yellow-Red	✓	—	—	—	—	—	3VA9137-0EK27	
		—	✓	✓	—	—	—	3VA9277-0EK27	
		—	—	—	✓	—	—	3VA9447-0EK27	
Standard with door interlock, with door open function	Gray	✓	—	—	—	—	—	3VA9137-0EK31	
		—	✓	✓	—	—	—	3VA9277-0EK31	
		—	—	—	✓	—	—	3VA9447-0EK31	
		—	—	—	—	✓	—	3VA9677-0EK31	
Standard with door interlock, with door open function, with illumination kit	Gray	✓	—	—	—	—	—	3VA9137-0EK33	
		—	✓	✓	—	—	—	3VA9277-0EK33	
		—	—	—	✓	—	—	3VA9447-0EK33	
EMERGENCY-OFF with door interlock, with door open function	Yellow-Red	✓	—	—	—	—	—	3VA9137-0EK35	
		—	✓	✓	—	—	—	3VA9277-0EK35	
		—	—	—	✓	—	—	3VA9447-0EK35	
		—	—	—	—	✓	—	3VA9677-0EK35	
EMERGENCY-OFF with door interlock, with door open function, with illumination kit	Yellow-Red	✓	—	—	—	—	—	3VA9137-0EK37	
		—	✓	✓	—	—	—	3VA9277-0EK37	
		—	—	—	✓	—	—	3VA9447-0EK37	

3VA Molded Case Circuit Breakers

3VA Manual Operators

Selection




Door Mounted Rotary Operator^{①②}

	Type	Color	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A - 2000A	Catalog Number
 <p>Degree of protection Type 1, 12, 3R and 4X</p>	Standard	Gray	✓	—	—	—	—	—	3VA9137-0FK21
			—	✓	✓	—	—	—	3VA9277-0FK21
			—	—	—	✓	—	—	3VA9447-0FK21
			—	—	—	—	✓	—	3VA9677-0FK21
			—	—	—	—	—	✓	3VA9877-0FK21
	Standard with illumination kit	Gray	✓	—	—	—	—	—	3VA9137-0FK23
			—	✓	✓	—	—	—	3VA9277-0FK23
			—	—	—	✓	—	—	3VA9447-0FK23
			—	—	—	—	✓	—	3VA9677-0FK23
	EMERGENCY-OFF without illumination kit	Yellow- Red	✓	—	—	—	—	—	3VA9137-0FK25
			—	✓	✓	—	—	—	3VA9277-0FK25
			—	—	—	✓	—	—	3VA9447-0FK25
			—	—	—	—	✓	—	3VA9677-0FK25
	EMERGENCY-OFF with illumination kit	Yellow- Red	✓	—	—	—	—	—	3VA9137-0FK27
			—	✓	✓	—	—	—	3VA9277-0FK27
			—	—	—	✓	—	—	3VA9447-0FK27
			—	—	—	—	✓	—	3VA9677-0FK27
	Standard with door interlock, with open door function	Gray	✓	—	—	—	—	—	3VA9137-0FK31
			—	✓	✓	—	—	—	3VA9277-0FK31
			—	—	—	✓	—	—	3VA9447-0FK31
			—	—	—	—	✓	—	3VA9677-0FK31
	Standard with door interlock, with open door function with illumination kit	Gray	✓	—	—	—	—	—	3VA9137-0FK33
			—	✓	✓	—	—	—	3VA9277-0FK33
			—	—	—	✓	—	—	3VA9447-0FK33
—			—	—	—	✓	—	3VA9677-0FK33	
EMERGENCY-OFF with door interlock, with open door function	Yellow- Red	✓	—	—	—	—	—	3VA9137-0FK35	
		—	✓	✓	—	—	—	3VA9277-0FK35	
		—	—	—	✓	—	—	3VA9447-0FK35	
		—	—	—	—	✓	—	3VA9677-0FK35	
EMERGENCY-OFF with door interlock, with open door function, with illumination kit	Yellow- Red	✓	—	—	—	—	—	3VA9137-0FK37	
		—	✓	✓	—	—	—	3VA9277-0FK37	
		—	—	—	✓	—	—	3VA9447-0FK37	
		—	—	—	—	✓	—	3VA9677-0FK37	
 <p>NFPA-79 Supplementary Handles</p>	Standard	Gray	✓	—	—	—	—	3VA9137-0GC01	
			—	✓	✓	—	—	—	3VA9477-0GC01
			—	—	—	✓	—	—	3VA9477-0GC11
			—	—	—	—	✓	—	3VA9677-0GC01
			—	—	—	—	—	✓	3VA9877-0GC01
	EMERGENCY-OFF	Yellow- Red	✓	—	—	—	—	—	3VA9137-0GC05
			—	✓	✓	—	—	—	3VA9477-0GC05
			—	—	—	✓	—	—	3VA9477-0GC15
			—	—	—	—	✓	—	3VA9677-0GC05
			—	—	—	—	—	✓	3VA9877-0GC05

① Lockable with up to three padlock hasps.

② All door mounted rotary operators include the tolerance compensation feature.

Side Mounted Rotary Operator^①

	Type	Color	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	Catalog Number	
 <ul style="list-style-type: none"> Without mounting plate Rotary operator with shaft 300 mm Handle with masking plate 75 x 75 mm Degree of protection Type 1, 12, 3R, 4X 	Standard	Gray	✓	—	—	—	—	3VA9137-0PK11	
			—	✓	✓	—	—	3VA9277-0PK11	
	Standard with illumination kit	Gray	✓	—	—	—	—	3VA9137-0PK13	
			—	✓	✓	—	—	3VA9277-0PK13	
	EMERGENCY-OFF	Yellow-Red	✓	—	—	—	—	3VA9137-0PK15	
			—	✓	✓	—	—	3VA9277-0PK15	
 <ul style="list-style-type: none"> With mounting plate Rotary operator with short shaft Handle with masking plate 75 x 75 mm Degree of protection Type 1, 12, 3R, 4X 	EMERGENCY-OFF with illumination kit	Yellow-Red	✓	—	—	—	—	3VA9137-0PK17	
			—	✓	✓	—	—	3VA9277-0PK17	
	Standard with mounting plate	Gray	✓	—	—	—	—	3VA9137-0PK51	
			—	✓	✓	—	—	3VA9277-0PK51	
	Standard with mounting plate, with illumination kit	Gray	✓	—	—	—	—	3VA9137-0PK53	
			—	✓	✓	—	—	3VA9277-0PK53	
 <p>Side Mounted Rotary Operator Door Interlock</p> <ul style="list-style-type: none"> With mounting plate Rotary operator with short shaft Handle with masking plate 75 x 75 mm Degree of protection Type 1, 12, 3R, 4X 	EMERGENCY-OFF with mounting plate	Yellow-Red	✓	—	—	—	—	3VA9137-0PK55	
			—	✓	✓	—	—	3VA9277-0PK55	
	EMERGENCY-OFF with mounting plate, with illumination kit	Yellow-Red	✓	—	—	—	—	—	3VA9137-0PK57
			—	✓	✓	—	—	—	3VA9277-0PK57
	Standard for use with the side wall mounted rotary operators	Gray	✓	—	—	—	—	—	3VA9177-0VF40
	Without mounting plate		—	✓	✓	—	—	—	3VA9277-0VF40

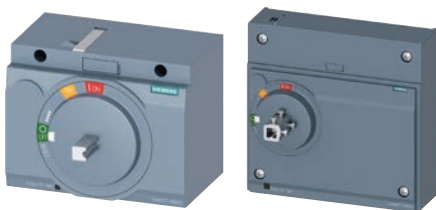
① Lockable with up to three padlock hasps.

3VA Molded Case Circuit Breakers


3VA Manual Operators

Selection


Breaker Operator

		Type	Color	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A - 2000A	Catalog Number
 <p>3VA9277-0GK00 3VA9677-0GK00</p>	Without handle, without shaft adapter	Gray	✓	—	—	—	—	—	—	3VA9137-0GK00
			—	✓	✓	—	—	—	—	3VA9277-0GK00
			—	—	—	✓	—	—	—	3VA9447-0GK00
	Without handle, with shaft adapter	Gray	—	—	—	—	✓	—	—	3VA9677-0GK00
			—	—	—	—	—	✓	—	3VA9877-0GK00

Handles with Masking Plate (Purchase breaker operator, shaft and shaft adapter separately)

		Type	Color	Tolerance Compensation	Door Open Function	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	Catalog Number	
 <ul style="list-style-type: none"> Degree of protection Type 1, 12, 3R and 4X 	Standard	Gray	Without	Without	✓	✓	✓	—	—	—	8UD1721-0AB11	
			With	Without	✓	✓	✓	—	—	—	8UD1721-0AB21	
			Without	Without	—	—	—	✓	—	—	8UD1731-0AB11	
			With	Without	—	—	—	✓	—	—	8UD1731-0AB21	
			Without	With	✓	✓	✓	—	—	—	8UD1721-0AC11	
			With	With	✓	✓	✓	—	—	—	8UD1721-0AC21	
			Without	With	—	—	—	✓	—	—	8UD1731-0AC11	
			With	With	—	—	—	✓	—	—	8UD1731-0AC21	
			Without	With	—	—	—	—	—	✓	—	8UD1741-0AB11
	With	With	—	—	—	—	—	✓	—	8UD1741-0AB21		
	Emergency	Yellow-Red	Without	Without	✓	✓	✓	—	—	—	—	8UD1721-0AB15
			With	Without	✓	✓	✓	—	—	—	—	8UD1721-0AB25
			Without	Without	—	—	—	✓	—	—	—	8UD1731-0AB15
			With	Without	—	—	—	✓	—	—	—	8UD1731-0AB25
			Without	With	✓	✓	✓	—	—	—	—	8UD1721-0AC15
			With	With	✓	✓	✓	—	—	—	—	8UD1721-0AC25
			Without	With	—	—	—	✓	—	—	—	8UD1731-0AC15
			With	With	—	—	—	✓	—	—	—	8UD1731-0AC25
			Without	With	—	—	—	—	—	✓	—	—
With			With	—	—	—	—	—	✓	—	—	8UD1741-0AB25



Metal Rotary Handles (Purchase breaker operator, shaft and shaft adapter separately)

 <ul style="list-style-type: none"> Large, degree of protection Type 1, 3, 3R, 12 	Metal	Black	—	With	✓	✓	✓	✓	✓	—	RHOH
<ul style="list-style-type: none"> Large, degree of protection Type 4, 4X 	Metal	Stainless	—	With	✓	✓	✓	✓	✓	—	RHOH4
<ul style="list-style-type: none"> Compact, degree of protection Type 1,3,3R,12 	Compact	Black	—	With	✓	✓	✓	✓	—	—	RHOHC
<ul style="list-style-type: none"> Compact, degree of protection Type 4, 4X 	Compact	Stainless	—	With	✓	✓	✓	✓	—	—	RHOH4C
<ul style="list-style-type: none"> Long, degree of protection 1,3,3R,12 	Emergency	Red	—	With	✓	✓	✓	✓	✓	—	RHVPEMH
<ul style="list-style-type: none"> Compact, degree of protection 1,3,3R,12 	Emergency	Red	—	With	✓	✓	✓	✓	—	—	RHVMEMH

For additional information for selecting handle and breaker operator combinations, please refer to the brochure:

https://digitalcontentcenter.compas.siemens-info.com/SIE_FL_3VA_Handles.pdf








Pistol Grip Handles (Purchase breaker operator, shaft and shaft adapter separately)

	Degree of Protection	Handle Type	Color	Tolerance Compensation	Door Open Function	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	Catalog Number
	Type 1,3R,12	Plastic	Gray	—	With	✓	✓	✓	✓	—	3VA9477-0FH11
	Type 4X	Plastic (metal padlock hasp)	Gray	—	With	✓	✓	✓	✓	—	3VA9477-0FH41
	Type 1,3R,12	Emergency	Red	—	With	✓	✓	✓	✓	—	3VA9477-0FH15
	Type 4X	Emergency (metal padlock hasp)	Red	—	With	✓	✓	✓	✓	—	3VA9477-0FH45

Door Mounted Rotary Operator Accessories

	Type	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 800A 1000A	Catalog Number
	8 mm Shaft 300 mm/12 in long for 8UD plastic handles (Fixing bracket optional)	✓	✓	✓	✓	—	—	8UD1900-2WA00
	8 mm Shaft 600 mm/24 in long for 8UD plastic handles (Fixing bracket required)	✓	✓	✓	✓	—	—	8UD1900-2WB00
	12 mm Shaft 300 mm/12 in long for 8UD plastic handles	—	—	—	—	✓	—	8UD1900-4WA00
	12 mm Shaft 600 mm/24 in long for 8UD plastic handles	—	—	—	—	✓	—	8UD1900-4WB00
	8 mm Shaft 300 mm/12 in long for metal handles (Fixing bracket optional)	✓	✓	✓	✓	—	—	3VA9477-0GF20
	8 mm Shaft 600 mm/24 in long for metal handles (Fixing bracket required)	✓	✓	✓	✓	—	—	3VA9477-0GF21
	12 mm Shaft 300/12 in mm long for metal handles (Fixing bracket optional)	—	—	—	—	✓	—	3VA9877-0GF22
	12 mm Shaft 600 mm/24 in long for metal handles (Fixing bracket required)	—	—	—	—	✓	—	3VA9877-0GF23
	8 mm Shaft 300/12 in mm long for pistol grip handles (Fixing bracket optional)	✓	✓	✓	✓	—	—	3VA9477-0GF10
	8 mm Shaft 600 mm long/24 in for pistol grip handles (Fixing bracket required)	✓	✓	✓	✓	—	—	3VA9477-0GF11
	Adapter for 8 mm Shaft for door mounted operator	✓	✓	✓	✓	—	—	8UD1900-2DA00
	Adapter for 12 mm Shaft for door mounted operator	—	—	—	—	✓	—	8UD1900-4DA00
	Fixing bracket for Shaft	✓	—	—	—	—	—	3VA9137-0GA80
		—	✓	✓	✓	—	—	3VA9477-0GA80
	Fixing bracket for 12 mm x 12 mm shaft	—	—	—	—	✓	—	3VA9677-0GA80
		—	—	—	—	—	✓	—
	Variable depth adapter 8 x 8 mm	✓	✓	✓	✓	—	—	3VA9487-0GB10
	Door Coupling 8 mm x 8 mm (for 8UD plastic handles)	✓	✓	✓	—	—	—	8UD1900-2HA00
	Door coupling 12 mm x 12 mm (for 8UD plastic handles)	—	—	—	✓	✓	—	8UD1900-4HA00
	Mounting tolerance compensation 8 x 8 mm (for 8UD plastic handles)	✓	✓	✓	✓	—	—	8UD1900-2GA00
	Mounting tolerance compensation 12 mm x 12 mm (for 8UD plastic handles)	—	—	—	—	✓	—	8UD1900-4GA00

General Accessories for Manual Operators

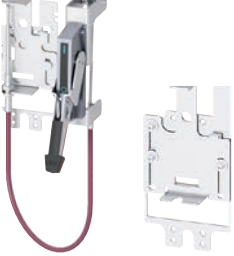



	Type	Details	Part Number
	Labeling plate for manual operators	—	3VA9087-0SX10
	Illumination kit for manual operators 24 V DC voltage	For Molded Case Circuit Breakers 3VA5, 125...250 A 3VA6, 150...600 A 3VA5, 3VA6, 125...600 A 3VA5, 3VA6, 800..1000A	Front mounted rotary operators 8UD1900-0KA10 8UD1900-0KA20 Door mounted rotary operators 8UD1900-0KA20 8UD1900-0KA30
	Cylinder Lock (type Kaba) <ul style="list-style-type: none"> For 8UD plastic door mounted rotary operators (in masking plate) Standard masking plate 	Key 1 Key 2 Key 3 Key 4	8UD1900-0MB01 8UD1900-0NB01 8UD1900-0PB01 8UD1900-0QB01
	Cylinder Lock (type Kaba) [Ⓞ] <ul style="list-style-type: none"> For 8UD plastic door mounted rotary operators (in masking plate) Standard masking plate 	Key 1 Key 2 Key 3 Key 4	8UD1900-0MC01 8UD1900-0NC01 8UD1900-0PC01 8UD1900-0QC01
	Cylinder Lock (type Kaba) <ul style="list-style-type: none"> For 8UD plastic door mounted rotary operators (in masking plate) EMERGENCY-OFF masking plate 	Key 1 Key 2 Key 3 Key 4	8UD1900-0MB05 8UD1900-0NB05 8UD1900-0PB05 8UD1900-0QB05
	Cylinder Lock (type Kaba) [Ⓞ] <ul style="list-style-type: none"> For 8UD plastic door mounted rotary operators (in masking plate) EMERGENCY-OFF masking plate 	Key 1 Key 2 Key 3 Key 4	8UD1900-0MC05 8UD1900-0NC05 8UD1900-0PC05 8UD1900-0QC05
	Cylinder Lock (type Ronis) <ul style="list-style-type: none"> includes 2 keys for locking or interlocking installation in all rotary operators w/ shaft stub 	Key 1 Key 3 Key 4	3VA9980-0VL10 3VA9980-0VL30 3VA9980-0VL40
	Cylinder lock adapter for 8UD rotary operator <ul style="list-style-type: none"> to mount in rotary operator 		3VA9980-0LF20
	Cylinder lock adaptor for front mounted rotary operator 3VA9677-0EK.. and door mounted rotary operator 3VA9677-0FK.. 3VA55/3VA65/3VA66		3VA9670-0LF20

3VA Molded Case Circuit Breakers

3VA Manual and Motor Operators


Selection

Max Flex Operator



	Type	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	Catalog Number
 <p>Complete kit and spare mechanism</p>	Complete Kit	✓	—	—	—	—	3VA9137-0CK12
	■ Operating mechanism	—	✓	✓	—	—	3VA9277-0CK12
	■ Plastic handle, NEMA 1/12, black=OFF, green=ON	—	—	—	✓	—	3VA9477-0CK12
	■ Bowden Cable 36 inches (0.9m) long	—	—	—	—	—	—
	Complete Kit	✓	—	—	—	—	3VA9137-0CK72
	■ Operating mechanism	—	✓	✓	—	—	3VA9277-0CK72
	■ Steel handle, epoxy coated NEMA 1/3R/12, black=OFF, red=ON,	—	—	—	✓	—	3VA9477-0CK72
	■ Bowden Cable 36 inches (0.9m) long	—	—	—	—	✓	3VA9677-0CK72
	Operating Mechanism (spare)	✓	—	—	—	—	3VA9137-0CB10
			—	✓	✓	—	—
	Handle - Plastic, NEMA 1/12, black = OFF, green = ON	✓	✓	✓	✓	—	3VA9977-0CH12
	Handle - Steel, Epoxy coated, NEMA 1/3R/12, black = OFF, red = ON	✓	✓	✓	✓	—	3VA9977-0CH72
	Handle - Steel, Epoxy coated, NEMA 1/3R/12, black = OFF, black = ON	—	—	—	—	✓	3VA9877-0CH72
	Handle - Steel, Epoxy coated, NEMA 1/3R/12, black = OFF, black = ON	✓	✓	✓	✓	—	3VA9977-0CH74
	Handle - Steel, chrome-plated, NEMA 4/4X, black = OFF, red = ON	—	—	—	—	✓	3VA9877-0CH74
	Handle - Steel, chrome-plated, NEMA 4/4X, black = OFF, black = ON	✓	✓	✓	✓	—	3VA9977-0CH82
	Handle - Steel, chrome-plated, NEMA 4/4X, black = OFF, black = ON	✓	✓	✓	✓	—	3VA9977-0CH84
	Handle - Stainless steel, NEMA 4, 4X, red = ON, black =OFF	—	—	—	—	✓	3VA9877-0CH82
	Bowden Cable, 36 inches (0.9m)	✓	✓	✓	—	—	3VA9278-0CC10
	Bowden Cable, 48 inches (1.2m)	✓	✓	✓	—	—	3VA9278-0CC20
	Bowden Cable, 60 inches (1.5m)	✓	✓	✓	—	—	3VA9278-0CC30
	Bowden Cable, 72 inches (1.8m)	✓	✓	✓	—	—	3VA9278-0CC40
	Bowden Cable, 84 inches (2.1m)	✓	✓	✓	—	—	3VA9278-0CC50
	Bowden Cable, 96 inches (2.4m)	✓	✓	✓	—	—	3VA9278-0CC60
	Bowden Cable, 120 inches (3.0m)	✓	✓	✓	—	—	3VA9278-0CC70
	Bowden Cable, 144 inches (3.6m)	✓	✓	✓	—	—	3VA9278-0CC80
	Bowden Cable, 36 inches (0.9m)	—	—	—	✓	—	3VA9578-0CC10
	Bowden Cable, 48 inches (1.2m)	—	—	—	✓	—	3VA9578-0CC20
	Bowden Cable, 60 inches (1.5m)	—	—	—	✓	—	3VA9578-0CC30
	Bowden Cable, 72 inches (1.8m)	—	—	—	✓	—	3VA9578-0CC40
	Bowden Cable, 84 inches (2.1m)	—	—	—	✓	—	3VA9578-0CC50
	Bowden Cable, 96 inches (2.4m)	—	—	—	✓	—	3VA9578-0CC60
	Bowden Cable, 120 inches (3.0m)	—	—	—	✓	—	3VA9578-0CC70
	Bowden Cable, 144 inches (3.6m)	—	—	—	✓	—	3VA9578-0CC80
	Bowden Cable, 48 inches (1.2m)	—	—	—	—	✓	3VA9877-0CC20
	Bowden Cable, 60 inches (1.5m)	—	—	—	—	✓	3VA9877-0CC30
Bowden Cable, 72 inches (1.8m)	—	—	—	—	✓	3VA9877-0CC40	
Bowden Cable, 96 inches (2.4m)	—	—	—	—	✓	3VA9877-0CC60	
Bowden Cable, 120 inches (3.0m)	—	—	—	—	✓	3VA9877-0CC70	
Bowden Cable, 144 inches (3.6m)	—	—	—	—	✓	3VA9877-0CC80	
	MaxFlex Auxiliary switch (leading from On to Off)	✓	✓	✓	✓	✓	3VA9478-0CX10
	■ 1 CO						
	MaxFlex Auxiliary switch (leading from On to Off)	✓	✓	✓	✓	✓	3VA9478-0CX20
	■ 2 CO						

3VA Molded Case Circuit Breakers

Variable depth flange mounted operator kit

	Type	3VA5	3VA5	3VA6	3VA5	Catalog Number
		125A	250A	150A 250A	3VA6 400A 600A	
	Complete kit comprising: ■ Switching mechanism adjustable depth 200mm to 400mm ■ Epoxy coated steel handle, NEMA 1/3R/12, black = OFF, red = ON	✓	—	—	—	3VA9138-ODK72
		—	✓	✓	—	3VA9278-ODK72
		—	—	—	✓	3VA9478-ODK72
	Complete kit comprising: ■ Switching mechanism adjustable depth 200mm to 400mm ■ Stainless steel handle, chrome-plated NEMA 4/4X, black=OFF, red=ON	✓	—	—	—	3VA9138-ODK82
		—	✓	✓	—	3VA9278-ODK82
		—	—	—	✓	3VA9478-ODK82
	Complete kit comprising: ■ Switching mechanism adjustable depth 200mm to 400mm ■ Handle stainless steel, chrome-plated NEMA 4/4X, black=OFF, black=ON	✓	—	—	—	3VA9138-ODK84
		—	✓	✓	—	3VA9278-ODK84
		—	—	—	✓	3VA9478-ODK84

Motor Operators[Ⓞ]

	Type	3VA5	3VA5	3VA6	3VA5	Part Number
		125 A	250 A	150 A 250 A	3VA6 400A 600A	
	Motor Operator without Stored Energy Feature					
	24 ... 60 V DC	✓	—	—	—	3VA9137-0HA10
		—	✓	✓	—	3VA9277-0HA10
		—	—	—	✓	3VA9447-0HA10
	110 ... 230 V AC 110 ... 250 V DC	✓	—	—	—	3VA9137-0HA20
		—	✓	✓	—	3VA9277-0HA20
—		—	—	✓	3VA9447-0HA20	
	Motor Operator with Stored Energy Feature					
	24 V DC	—	✓	✓	—	3VA9277-0HC10
	42 ... 60 V AC/DC	—	✓	✓	—	3VA9277-0HC20
	110 ... 230 V AC / 110 ... 250 V DC	—	✓	✓	—	3VA9277-0HC30
	Motor Operator with Stored Energy Feature with Communication					
	24 V DC	—	✓	✓	—	3VA9277-0HC15
	110 ... 230 V AC / 110 ... 250 V DC	—	✓	✓	—	3VA9277-0HC35





Ⓞ Lockable with up to three padlock hasps.

3VA Molded Case Circuit Breakers










3VA Connection Technology

Selection

Box Terminals

	Type	Minimum cable cross-section (standard) Class B	Maximum cable cross-section (standard) Class B	For molded case circuit breakers/rated current					Part Number
				3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	
	Steel wrap-around lug (Cu cable only) kit of 3 single lugs	AWG 14	3/0	✓	—	—	—	—	3VA9133-0JA11
		AWG 10	3/0	—	✓	—	—	—	3VA9233-0JA11
		AWG 4	350 kcmil	—	✓	—	—	—	3VA9233-0JA12
		AWG 10	3/0	—	—	✓	—	—	3VA9143-0JA12
		AWG 4	350 kcmil	—	—	✓	—	—	3VA9243-0JA12
	Steel wrap-around lug (Cu cable only) kit of 4 single lugs	AWG 14	3/0	✓	—	—	—	—	3VA9134-0JA11
		AWG 10	3/0	—	✓	—	—	—	3VA9234-0JA11
		AWG 4	350 kcmil	—	✓	—	—	—	3VA9234-0JA12
		AWG 10	3/0	—	—	✓	—	—	3VA9144-0JA12
		AWG 4	350 kcmil	—	—	✓	—	—	3VA9244-0JA12
	Steel wrap-around lug with control wire tap (Cu cable only) kit of 3 single lugs	AWG 10	3/0	—	✓	—	—	—	3VA9233-0JH11
		AWG 4	350 kcmil	—	✓	—	—	—	3VA9233-0JH12
		AWG 10	3/0	—	—	✓	—	—	3VA9143-0JH12
		AWG 4	350 kcmil	—	—	✓	—	—	3VA9243-0JH12
		1/0	500 kcmil	—	—	—	✓	—	3VA9473-0JH13
	Steel wrap-around lug with control wire tap (Cu cable only) kit of 4 single lugs	AWG 10	3/0	—	✓	—	—	—	3VA9234-0JH11
		AWG 4	350 kcmil	—	✓	—	—	—	3VA9234-0JH12
		AWG 10	3/0	—	—	✓	—	—	3VA9144-0JH12
		AWG 4	350 kcmil	—	—	✓	—	—	3VA9244-0JH12
		1/0	500 kcmil	—	—	—	✓	—	3VA9474-0JH13

Aluminum Wire Connectors

	Aluminum body lug small (Cu/Al cable) kit of 3 single lugs	AWG 14	AWG 8	✓	—	—	—	—	3VA9133-0JB10 ^{③⑤}	
	Aluminum body lug small (Cu/Al cable) kit of 4 single lugs	AWG 14	AWG 8	✓	—	—	—	—	3VA9134-0JB10 ^{③⑤}	
	Aluminum body lug small with control wire tap (Cu/Al cable)	AWG 14	AWG 8	✓	—	—	—	—	3VA9133-0JG10 ^③	
	Aluminum body lug small with control wire tap (Cu/Al cable)	AWG 14	AWG 8	✓	—	—	—	—	3VA9134-0JG10 ^③	
	Aluminum body lug (Cu/Al cable) kit of 3 single lugs	AWG 8	3/0	✓	—	—	—	—	3VA9133-0JB11 ^{④⑤}	
		AWG 14	1/0	—	✓	—	—	—	—	3VA9233-0JB11
		AWG 6	350 kcmil	—	✓	—	—	—	—	3VA9233-0JB12 ^{②⑤}
		AWG 14	1/0	—	—	✓	—	—	—	3VA9143-0JB11 ^②
		AWG 6	350 kcmil	—	—	✓	—	—	—	3VA9243-0JB12 ^⑤
	Aluminum body lug (Cu/Al cable) kit of 4 single lugs	2/0	600 kcmil	—	—	—	✓	—	3VA9373-0JB13 ^{①⑥}	
		AWG 8	3/0	✓	—	—	—	—	—	3VA9134-0JB11 ^{④⑤}
		AWG 14	1/0	—	✓	—	—	—	—	3VA9234-0JB11
		AWG 6	350 kcmil	—	✓	—	—	—	—	3VA9234-0JB12 ^⑤
		AWG 14	1/0	—	—	✓	—	—	—	3VA9144-0JB11 ^②
	Aluminum body lug with control wire tap (Cu/Al cable) kit of 3 single lugs	AWG 6	350 kcmil	—	—	✓	—	—	3VA9244-0JB12 ^{②⑤}	
		2/0	600 kcmil	—	—	—	✓	—	3VA9374-0JB13 ^{①⑥}	
		AWG 8	3/0	✓	—	—	—	—	—	3VA9133-0JG11 ^④
		AWG 14	1/0	—	✓	—	—	—	—	3VA9233-0JG11
		AWG 6	350 kcmil	—	✓	—	—	—	—	3VA9233-0JG12
	Aluminum body lug with control wire tap (Cu/Al cable) kit of 4 single lugs	AWG 14	1/0	—	—	✓	—	—	3VA9143-0JG11 ^②	
		AWG 6	350 kcmil	—	—	✓	—	—	—	3VA9243-0JG12 ^②
		2/0	600 kcmil	—	—	—	✓	—	—	3VA9373-0JG13 ^①
		AWG 8	3/0	✓	—	—	—	—	—	3VA9134-0JG11 ^④
		AWG 14	1/0	—	✓	—	—	—	—	3VA9234-0JG11
	Aluminum body lug two cables (Cu/Al cable) kit of 3 single lugs	AWG 6	350 kcmil	—	✓	—	—	—	3VA9234-0JG12	
		AWG 14	1/0	—	—	✓	—	—	—	3VA9144-0JG11 ^②
		AWG 6	350 kcmil	—	—	✓	—	—	—	3VA9244-0JG12 ^②
		2/0	600 kcmil	—	—	—	✓	—	—	3VA9374-0JG13 ^①
		4/0	600 kcmil	—	—	—	—	✓	—	3VA9573-0JB23 ^⑥

① This conductor is ampere-rated at 380A with copper wire and 310A with aluminum wire.

② Meets requirements of 100% rated breakers up to 150A.

③ Use these lugs on 15A to 40A breakers.



④ Use these lugs on 45A to 125A breakers.

3VA Molded Case Circuit Breakers

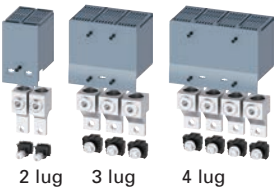
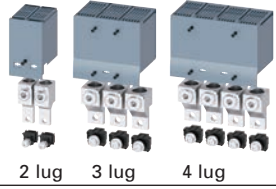
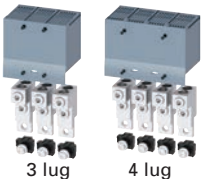
3VA Connection Technology

Selection

Aluminum Wire Connectors (cont.)

	Type	Minimum cable cross-section (standard) Class B	Maximum cable cross-section (standard) Class B	For molded case circuit breakers/rated current					Part Number
				3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	
	Aluminum body lug two cables (Cu/Al cable) kit of 4 single lugs	4/0	600 kcmil	—	—	—	—	✓	3VA9574-0JB23 ^②
	Aluminum body lug two cables with control wire tap (Cu/Al cable) kit of 3 single lugs	4/0	600 kcmil	—	—	—	—	✓	3VA9673-0JG23
	Aluminum body lug two cables with control wire tap (Cu/Al cable) kit of 4 single lugs	4/0	600 kcmil	—	—	—	—	✓	3VA9674-0JG23
 3 lug kit pictured	Aluminum body lug three cables (Cu/Al cable) kit of 3 single lugs	4/0	400 kcmil	—	—	—	—	✓	3VA9673-0JB32
	Aluminum body lug three cables (Cu/Al cable) kit of 4 single lugs	4/0	400 kcmil	—	—	—	—	✓	3VA9674-0JB32
 4 lug kit pictured	Aluminum body lug three cables with control wire tap (Cu/Al cable) kit of 3 single lugs	4/0	400 kcmil	—	—	—	—	✓	3VA9673-0JG32
	Aluminum body lug three cables with control wire tap (Cu/Al cable) kit of 4 single lugs	4/0	400 kcmil	—	—	—	—	✓	3VA9674-0JG32

Aluminum Wire Connectors and Terminal Covers

Type	Description	Min. cable cross-section (std.) Class B	Max. cable cross-section (std.) Class B	For molded case circuit breakers/ rated current					Part Number	Terminal Cover with Probe Holes Part Number
				3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A		
 2 lug 3 lug 4 lug	Kit of 2 single lugs and 1 extended terminal cover	AWG 4	300 kcmil	✓	—	—	—	—	3VA9132-0JJ12	
	Kit of 3 single lugs and 1 extended terminal cover	AWG 4	300 kcmil	✓	—	—	—	—	3VA9133-0JJ12	
		AWG 2	350 kcmil	—	✓	—	—	—	3VA9233-0JJ13	
	Kit of 4 single lugs and 1 extended terminal cover	AWG 4	300 kcmil	✓	—	—	—	—	3VA9134-0JJ12	
		AWG 2	350 kcmil	—	✓	—	—	—	3VA9234-0JJ13	
		AWG 2	350 kcmil	—	—	✓	—	—	3VA9244-0JJ13 ^①	
 2 lug 3 lug 4 lug	Kit of 2 single lugs and 1 extended terminal cover	AWG 4	300 kcmil	✓	—	—	—	—	3VA9132-0JC12	
	Kit of 3 single lugs and 1 extended terminal cover	AWG 4	300 kcmil	✓	—	—	—	—	3VA9133-0JC12	3VA9133-0JC18
		AWG 2	350 kcmil	—	✓	—	—	—	3VA9233-0JC13	3VA9233-0JC18
	Kit of 4 single lugs and 1 extended terminal cover	AWG 2	350 kcmil	—	—	✓	—	—	3VA9243-0JC13 ^①	3VA9243-0JC18
		AWG 4	300 kcmil	✓	—	—	—	—	3VA9134-0JC12	
	AWG 2	350 kcmil	—	✓	—	—	—	3VA9234-0JC13		
 3 lug 4 lug	Kit of 3 single lugs and 1 extended terminal cover	AWG 4	300 kcmil	—	✓	—	—	—	3VA9233-0JJ22	
		AWG 4	300 kcmil	—	—	✓	—	—	3VA9243-0JJ22 ^②	
	Kit of 4 single lugs and 1 extended terminal cover	2/0	600 kcmil	—	—	—	✓	—	3VA9473-0JJ23	
		AWG 4	300 kcmil	—	✓	—	—	—	3VA9234-0JJ22	
AWG 4	300 kcmil	—	—	✓	—	—	3VA9244-0JJ22 ^②			
2/0	600 kcmil	—	—	—	—	✓	—	3VA9474-0JJ23		

① Meets requirements of 100% rated breakers up to 250A.

② Standard lug installed at the factory on 600/700A 3VA55 and 600A 3VA65 breakers when the breaker is ordered with "6" in the 12th position of the catalog number.

3VA Molded Case Circuit Breakers

3VA Connection Technology

Selection

Aluminum Wire Connectors and Terminal Covers (cont.)

Type	Description	Min. cable cross-section (std.) Class B	Max. cable cross-section (std.) Class B	For molded case circuit breakers/ rated current					Part Number	Terminal Cover with Probe Holes Part Number
				3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A		
<p>3 lug 4 lug</p>	Kit of 3 single lugs and 1 extended terminal cover	AWG 4	300 kcmil	—	✓	—	—	—	3VA9233-0JC22	3VA9233-0JC28
		AWG 4	300 kcmil	—	—	✓	—	—	3VA9243-0JC22 ^①	3VA9243-0JC28
		2/0	600 kcmil	—	—	—	✓	—	3VA9473-0JC23	3VA9473-0JC28
	Kit of 4 single lugs and 1 extended terminal cover	AWG 4	300 kcmil	—	✓	—	—	—	3VA9234-0JC22	
		AWG 4	300 kcmil	—	—	✓	—	—	3VA9244-0JC22 ^①	
		2/0	600 kcmil	—	—	—	✓	—	3VA9474-0JC23	
<p>3 lug kit pictured</p>	Kit of 3 single lugs and 1 extended terminal cover	400 kcmil	750 kcmil	—	—	—	—	✓	3VA9673-0JJ24	
	Kit of 4 single lugs and 1 extended terminal cover	400 kcmil	750 kcmil	—	—	—	—	✓	3VA9674-0JJ24	
<p>3 kit lug pictured</p>	Kit of 3 single lugs and 1 extended terminal cover	400 kcmil	750 kcmil	—	—	—	—	✓	3VA9673-0JC24	
	Kit of 4 single lugs and 1 extended terminal cover	400 kcmil	750 kcmil	—	—	—	—	✓	3VA9674-0JC24	
	Kit of 3 single lugs and 1 extended terminal cover	500 kcmil	750 kcmil	—	—	—	—	✓	3VA9673-0JJ34	
	Kit of 4 single lugs and 1 extended terminal cover	500 kcmil	750 kcmil	—	—	—	—	✓	3VA9674-0JJ34	
	Kit of 3 single lugs and 1 extended terminal cover	500 kcmil	750 kcmil	—	—	—	—	✓	3VA9673-0JC34	
	Kit of 4 single lugs and 1 extended terminal cover	500 kcmil	750 kcmil	—	—	—	—	✓	3VA9674-0JC34	
<p>4 lug kit pictured</p>	Kit of 3 single lugs and 1 extended terminal cover	4/0	500 kcmil	—	—	—	—	✓	3VA9673-0JJ43 ^②	
	Kit of 4 single lugs and 1 extended terminal cover	4/0	500 kcmil	—	—	—	—	✓	3VA9674-0JJ43 ^②	
<p>4 lug kit pictured</p>	Kit of 3 single lugs and 1 extended terminal cover	4/0	500 kcmil	—	—	—	—	✓	3VA9673-0JC43	
	Kit of 4 single lugs and 1 extended terminal cover	4/0	500 kcmil	—	—	—	—	✓	3VA9674-0JC43	
	Kit of 3 single lugs and 1 extended terminal cover	4/0	600 kcmil	—	—	—	—	✓	3VA9673-0JJ44	
	Kit of 4 single lugs and 1 extended terminal cover	4/0	600 kcmil	—	—	—	—	✓	3VA9674-0JJ44	
	Kit of 3 single lugs and 1 extended terminal cover	4/0	600 kcmil	—	—	—	—	✓	3VA9673-0JC44	
	Kit of 4 single lugs and 1 extended terminal cover	4/0	600 kcmil	—	—	—	—	✓	3VA9674-0JC44	
<p>2 lug 3 lug 4 lug</p>	Kit of 2 single lugs and 1 extended terminal cover	AWG 14	AWG 2	✓	—	—	—	—	3VA9132-0JF60	
	Kit of 3 single lugs and 1 extended terminal cover	AWG 14	AWG 2	✓	—	—	—	—	3VA9133-0JF60	3VA9133-0JF68
		AWG 2	—	✓	—	—	—	—	3VA9233-0JF60	3VA9233-0JF68
		AWG 2	—	—	✓	—	—	—	3VA9243-0JF60 ^②	3VA9243-0JF68
	Kit of 4 single lugs and 1 extended terminal cover	AWG 14	AWG 2	—	—	—	✓	—	3VA9373-0JF60 ^③	3VA9373-0JF68
		AWG 2	✓	—	—	—	—	—	3VA9134-0JF60	
		AWG 2	—	✓	—	—	—	—	3VA9234-0JF60	
	AWG 2	—	—	✓	—	—	—	3VA9244-0JF60 ^②		
AWG 2	—	—	—	✓	—	—	3VA9374-0JF60 ^③			

① Meets requirements of 100% rated breakers up to 250A.
 ② Meets requirements of 100% rated breakers up to 100A.

③ Meets requirements of 100% rated breakers up to 100A.
 ④ Standard lug shipped from the factory with the breaker for field installation on 800A 3VA55 and 800/1000A

3VA65 and 3VA66 when the breaker is ordered with a "6" in the 12th position of the catalog number.

3VA Molded Case Circuit Breakers





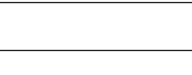




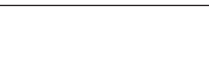
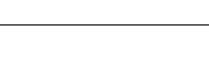
3VA Connection Technology

Selection

Aluminum & Copper Wire Connectors and Terminal Covers (cont.)

	Description	LUG Material	Number of Wires, per pole	UL 486A - 486B Cu/AL stranded	Min cable cross-section (std.) Class B	Max cable cross-section (std.) Class B	For molded case circuit breakers/rated current			Part Number
							3VA57 3VA67 1200A	3VA58 3VA68 1600A	3VA59 3VA69 2000A	
	Kit of 2 single lugs and 1 extended terminal cover	Aluminum body	3-Conductor	Cu/Al cable	500 kcmil	750 kcmil	✓	—	—	3VA9772-0JJ34
	Kit of 3 single lugs and 1 extended terminal cover	Aluminum body	3-Conductor	Cu/Al cable	500 kcmil	750 kcmil	✓	—	—	3VA9773-0JJ34
	Kit of 2 single lugs and 1 extended terminal cover	Aluminum body	4-Conductor	Cu/Al cable	1/0	500 kcmil	✓	—	—	3VA9772-0JJ43
	Kit of 3 single lugs and 1 extended terminal cover	Aluminum body	4-Conductor	Cu/Al cable	1/0	500 kcmil	✓	—	—	3VA9773-0JJ43
	Kit of 3 single lugs with control wire tap and 1 extended terminal cover	Aluminum body	4-Conductor with control wire tap	Cu/Al cable	1/0	500 kcmil	✓	—	—	3VA9773-0JC43
	Kit of 3 single lugs and 1 extended terminal cover	Aluminum body	4-Conductor	Cu/Al cable	1/0	500 kcmil	✓	—	—	3VA9773-0JM43
	Kit of 1 single lug	Aluminum body	4-Conductor	Cu/Al cable	600 kcmil	750 kcmil	—	✓	—	3VA9771-0JJ44
	Kit of 1 single lug	Aluminum body	5-Conductor	Cu cable only	300 kcmil	600 kcmil	—	✓	—	3VA9771-0JJ53
	Kit of 1 single lug	Aluminum body	6-Conductor	Cu/Al cable	300 kcmil	600 kcmil	—	✓	✓	3VA9871-0JJ63
	Kit of 3 single lugs	Aluminum body	6-Conductor	Cu/Al cable	1/0	750 kcmil	—	✓	—	3VA9773-0JJ64
	Kit of 3 single lugs and 1 extended terminal cover	Copper body	4-Conductor	Cu cable only	1/0	500 kcmil	✓	—	—	3VA9773-0JE43
	Kit of 1 single lug	Copper body	5-Conductor	Cu/Al cable	300 kcmil	600 kcmil	—	✓	✓	3VA9871-0JE53
	Mounting base: Front connection						—	✓	✓	3VA9873-0WM00
	Mounting base: Rear connection						—	✓	✓	3VA9873-0WN00
	Kit of 3 single lugs with busbars	Aluminum body	6-Conductor	Cu/Al cable	1/0	750 kcmil	✓	✓	—	3VA9873-0WL00
	Kit of 12 Compression lugs and	Aluminum body	4-Conductor	Cu/Al cable	N/A	500 kcmil	✓	—	—	3VA9773-0QK01

Copper Wire Connectors

	Type	Minimum cable cross-section (standard) Class B	Maximum cable cross-section (standard) Class B	For molded case circuit breakers/ rated current					Part Number
				3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	
	Copper body lug, small (Cu cable only) Kit of 3 single lugs	AWG 14	AWG 8	✓	—	—	—	—	3VA9133-0JD10 ^①
	Copper body lug (Cu cable only) Kit of 3 single lugs	AWG 8	2/0	✓	—	—	—	—	3VA9133-0JD11 ^②
		AWG 14	1/0	—	✓	—	—	—	3VA9233-0JD11
		AWG 6	350 kcmil	—	✓	—	—	—	3VA9233-0JD12
		AWG 14	1/0	—	—	✓	—	—	3VA9143-0JD11
		AWG 6	350 kcmil	—	—	✓	—	—	3VA9243-0JD12 ^③
	Copper body lug, small (Cu cable only) Kit of 4 single lugs	2/0	600 kcmil	—	—	—	✓	—	3VA9373-0JD13 ^④
		AWG 14	AWG 8	✓	—	—	—	—	3VA9134-0JD10 ^①
	Copper body lug (Cu cable only) kit of 4 single lugs	AWG 8	2/0	✓	—	—	—	—	3VA9134-0JD11 ^②
		AWG 14	1/0	—	✓	—	—	—	3VA9234-0JD11
		AWG 6	350 kcmil	—	✓	—	—	—	3VA9234-0JD12
		AWG 14	1/0	—	—	✓	—	—	3VA9144-0JD11
		AWG 6	350 kcmil	—	—	✓	—	—	3VA9244-0JD12 ^③
	Copper body lug, three cables (Cu cable) Kit of 3 single lugs	2/0	600 kcmil	—	—	—	✓	—	3VA9374-0JD13 ^④
		4/0	400 kcmil	—	—	—	—	✓	3VA9673-0JD32
	Copper body lug, three cables (Cu cable) Kit of 4 single lugs	4/0	400 kcmil	—	—	—	—	✓	3VA9674-0JD32
		AWG 14	AWG 8	✓	—	—	—	—	3VA9133-0JK10 ^①
	Copper body lug with control wire tap (Cu cable only) Kit of 3 single lugs	AWG 8	2/0	✓	—	—	—	—	3VA9133-0JK11 ^②
		AWG 14	1/0	—	✓	—	—	—	3VA9233-0JK11
		AWG 6	350 kcmil	—	✓	—	—	—	3VA9233-0JK12
		AWG 14	1/0	—	—	✓	—	—	3VA9143-0JK11
		AWG 6	350 kcmil	—	—	✓	—	—	3VA9243-0JK12
	Copper body lug, small with control wire tap (Cu cable only) Kit of 3 single lugs	2/0	600 kcmil	—	—	—	✓	—	3VA9373-0JK13
		AWG 14	AWG 8	✓	—	—	—	—	3VA9134-0JK10 ^①
	Copper body lug with control wire tap (Cu cable only) Kit of 4 single lugs	AWG 8	2/0	✓	—	—	—	—	3VA9134-0JK11 ^②
		AWG 14	1/0	—	✓	—	—	—	3VA9234-0JK11
		AWG 6	350 kcmil	—	✓	—	—	—	3VA9234-0JK12
		AWG 14	1/0	—	—	✓	—	—	3VA9144-0JK11
		AWG 6	350 kcmil	—	—	✓	—	—	3VA9244-0JK12
	Copper body lug, three cables with control wire tap (Cu cable) Kit of 3 single lugs	2/0	600 kcmil	—	—	—	✓	—	3VA9374-0JK13
		400 kcmil	600 kcmil	—	—	—	—	✓	3VA9673-0JK32
	Copper body lug, three cables with control wire tap (Cu cable) Kit of 4 single lugs	400 kcmil	600 kcmil	—	—	—	—	✓	3VA9674-0JK32

① Use these lugs on 15A to 40A breakers.
 ② Use these lugs on 45A to 125A breakers.

③ Standard lug installed at the factory on 100% rated 250A 3VA62 breakers when ordered with a "6" in the 12th position of the catalog number.



④ Standard lug installed at the factory on 100% rated 400A 3VA64 breakers when ordered with a "6" in the 12th position of the catalog number.

3VA Molded Case Circuit Breakers






3VA Connection Technology

Selection

Copper Wire Connectors (cont.)

	Type	Minimum cable cross-section (standard) Class B	Maximum cable cross-section (standard) Class B	For molded case circuit breakers/ rated current					Part Number
				3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	
	Copper body lug, 2 Cables (Cu cable only) Kit of 3 single lugs and 1 extended terminal cover	2/0	600 kcmil	—	—	—	✓	—	3VA9473-0JE23
	Copper body lug 2 Cables (Cu cable only) Kit of 4 single lugs and 1 extended terminal cover	2/0	600 kcmil	—	—	—	✓	—	3VA9474-0JE23
	Copper body lug, four cables (Cu cable) Kit of 3 single lugs and 1 extended terminal cover	4/0	500 kcmil	—	—	—	—	✓	3VA9673-0JL43
	Copper body lug, four cables (Cu cable) Kit of 4 single lugs and 1 extended terminal cover	4/0	500 kcmil	—	—	—	—	✓	3VA9674-0JL43






Nut Keeper Kits

	Type	Maximum terminal width	Maximum terminal thickness	For molded case circuit breakers/ rated current						Part Number
				3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A 1600A	
	Nut keeper kit kit of 3 single lugs	17 mm / 0.7 inch	6.5 mm / 0.25 inch	✓	—	—	—	—	—	3VA9133-0QA00
		25 mm / 1 inch	8 mm / 0.3 inch	—	✓	—	—	—	—	3VA9233-0QA00
		25 mm / 1 inch	8 mm / 0.3 inch	—	—	✓	—	—	—	3VA9243-0QA00
		35 mm / 1.4 inch	10 mm / 0.4 inch	—	—	—	✓	—	—	3VA9473-0QA00
	Nut keeper kit kit of 4 single lugs	17 mm / 0.7 inch	6.5 mm / 0.25 inch	✓	—	—	—	—	—	3VA9134-0QA00
		25 mm / 1 inch	8 mm / 0.3 inch	—	✓	—	—	—	—	3VA9234-0QA00
		25 mm / 1 inch	8 mm / 0.3 inch	—	—	✓	—	—	—	3VA9244-0QA00
		35 mm / 1.4 inch	10 mm / 0.4 inch	—	—	—	✓	—	—	3VA9474-0QA00
	Nut keeper kit kit of 3 single lug and terminal covers	50 mm / 2.0 inch	30 mm / 1.18 inch	—	—	—	—	✓	—	3VA9673-0QA00
	Nut keeper kit kit of 4 single lug and terminal covers	50 mm / 2.0 inch	30 mm / 1.18 inch	—	—	—	—	✓	—	3VA9674-0QA00
	Metric Nut Keeper Kit kit of 3 single lugs	50 mm / 1.96 inch	15...20 mm / 0.6...0.8 inch	—	—	—	—	—	✓	3VA9803-0QA00
	SAE Nut Keeper Kit kit of 3 single lugs	50 mm / 2.0 inch	15...20 mm / 0.6...0.8 inch	—	—	—	—	—	✓	3VA9873-0QA00









Bus Connector Extensions

	Type	Maximum terminal width	Maximum terminal thickness	For molded case circuit breakers/rated current							Part Number
				3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A	3VA5 3VA6 1600A	
	Front bus connectors, extended 1 single connector	22 mm / 0.9 inch	8 mm / 0.3 inch	✓	—	—	—	—	—	—	3VA9131-0QB00
	Front bus connectors, extended kit of 3 single connectors, 2 phase barriers, and 1 insulating plate	22 mm / 0.9 inch	8 mm / 0.3 inch	✓	—	—	—	—	—	—	3VA9133-0QB00
	Front bus connectors extended kit of 4 single connectors, 3 phase barriers, and 1 insulating plate	22 mm / 0.9 inch	8 mm / 0.3 inch	✓	—	—	—	—	—	—	3VA9133-0QB00
	Front bus connectors extended kit of 3 single connectors and 1 insulating plate	32 mm / 1.3 inch	10 mm / 0.4 inch	—	✓	✓	—	—	—	—	3VA9273-0QB00
		40 mm / 1.6 inch	12.5 mm / 0.5 inch	—	—	—	✓	—	—	—	3VA9473-0QB00
		50.8 mm / 2.0 inch	30 mm / 1.18 inch	—	—	—	—	✓	—	—	3VA9673-0QB00
	Front bus connectors extended kit of 4 single connectors and 1 insulating plate	32 mm / 1.3 inch	10 mm / 0.4 inch	—	✓	✓	—	—	—	—	3VA9274-0QB00
		40 mm / 1.6 inch	12.5 mm / 0.5 inch	—	—	—	✓	—	—	—	3VA9474-0QB00
		50.8 mm / 2.0 inch	30 mm / 1.18 inch	—	—	—	—	✓	—	—	3VA9674-0QB00
	Front bus connectors offset kit of 3 single connectors. 1 insulating plate Distance between pole centers: 400/600 A = 70 mm / 2.76 inches	60 mm / 2.4 inch	12.5 mm / 0.5 inch	—	—	—	✓	—	—	—	3VA9473-0QC00
		80 mm / 3.15 inch	30 mm / 1.18 inch	—	—	—	—	✓	—	—	3VA9673-0QC00
	Front bus connectors offset kit of 4 single connectors, 1 insulating plate, Distance between pole centers: 400/600 A = 70 mm / 2.76 inches	60 mm / 2.4 inch	12.5 mm / 0.5 inch	—	—	—	✓	—	—	—	3VA9474-0QC00
		80 mm / 3.15 inch	30 mm / 1.18 inch	—	—	—	—	✓	—	—	3VA9674-0QC00
	Front bus connectors offset kit of 3 single terminals 2 phase barriers <ul style="list-style-type: none"> ■ For mounting onto the circuit breaker ■ For mounting on plug-in and withdrawable units 	60 mm / 2.4 inch	12.5 mm / 0.5 inch	—	—	—	—	—	✓	—	3VA9603-0QC00
	Front bus connectors kit of 3 single connectors			—	—	—	—	—	✓	✓	3VA9703-0QB00
	Front bus connectors kit of 3 single connectors and 1 terminal cover Note: The bent connection brackets shown in the picture must be provided by the customer			—	—	—	—	—	✓	✓	3VA9873-0QB00
	Front bus connectors, for 100% rated MCCB kit of 3 single connectors and 1 terminal cover Note: The bent connection brackets shown in the picture must be provided by the customer			—	—	—	—	—	✓	✓	3VA9873-0QH00

Rear connection studs flat

	Type	For molded case circuit breakers/ rated current						Part Number
		3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A	
	Rear connection studs flat kit of 2 short flat studs and 1 long flat stud	✓	—	—	—	—	—	3VA9133-0QE00
		—	✓	—	—	—	—	3VA9233-0QE00
		—	—	✓	—	—	—	3VA9243-0QE00
		—	—	—	✓	—	—	3VA9473-0QE00
	Rear connection studs flat kit of 2 short flat studs and 2 long flat studs	✓	—	—	—	—	—	3VA9134-0QE00
		—	✓	—	—	—	—	3VA9234-0QE00
		—	—	✓	—	—	—	3VA9244-0QE00
		—	—	—	✓	—	—	3VA9474-0QE00
	Rear connection studs flat 1 short flat stud	✓	—	—	—	—	—	3VA9131-0QE10
		—	✓	—	—	—	—	3VA9231-0QE10
		—	—	✓	—	—	—	3VA9241-0QE10
		—	—	—	✓	—	—	3VA9471-0QE10
	Rear connection studs flat 1 long flat stud	✓	—	—	—	—	—	3VA9131-0QE20
		—	✓	—	—	—	—	3VA9231-0QE20
		—	—	✓	—	—	—	3VA9241-0QE20
		—	—	—	✓	—	—	3VA9471-0QE20
	Rear connectors vertical 1 pole, 1 rear connector	—	—	—	—	—	✓	3VA9773-0QE10
	Rear connectors vertical 3 pole, 3 rear connectors	—	—	—	—	—	✓	3VA9773-0QE00

Rear connection studs round




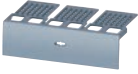
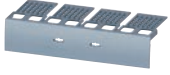






	Rear connection studs round kit of 1 long round stud and 2 short round studs	✓	—	—	—	—	—	3VA9133-0QF00
		—	✓	—	—	—	—	3VA9233-0QF00
		—	—	✓	—	—	—	3VA9243-0QF00
		—	—	—	✓	—	—	3VA9473-0QF00
	Rear connection studs round kit of 2 long round studs and 2 short round studs	✓	—	—	—	—	—	3VA9134-0QF00
		—	✓	—	—	—	—	3VA9234-0QF00
		—	—	✓	—	—	—	3VA9244-0QF00
		—	—	—	✓	—	—	3VA9474-0QF00
	Rear connection studs round 1 short round studs	✓	—	—	—	—	—	3VA9131-0QF10
		—	✓	—	—	—	—	3VA9231-0QF10
		—	—	✓	—	—	—	3VA9241-0QF10
		—	—	—	✓	—	—	3VA9471-0QF10
	Rear connection studs round 1 long round stud	✓	—	—	—	—	—	3VA9131-0QF20
		—	✓	—	—	—	—	3VA9231-0QF20
		—	—	✓	—	—	—	3VA9241-0QF20
		—	—	—	✓	—	—	3VA9471-0QF20
	Rear horizontal bus connections, 3-pole, 3VA65 and 3VA66	—	—	—	—	✓	—	3VA9673-0QE60
		Rear horizontal bus connections, 4-pole, 3VA65 and 3VA66	—	—	—	—	✓	—
	Rear vertical bus connections, 3-pole, 3VA65 and 3VA66	—	—	—	—	✓	—	3VA9673-0QE00
		Rear vertical bus connections, 4-pole, 3VA65 and 3VA66	—	—	—	—	✓	—

3VA Molded Case Circuit Breakers







3VA Connection Technology

Selection

Phase barriers, terminal covers, and insulating plates

	Type	For molded case circuit breakers/ rated current								Part Number	Terminal Cover with Probe Holes Part Number
		3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A	3VA5 3VA6 1600A	3VA5 3VA6 2000A		
	Phase barriers kit of 2 phase barriers	✓	—	—	—	—	—	—	—	3VA9132-0WA00	
		—	✓	✓	—	—	—	—	—	3VA9272-0WA00	
		—	—	—	✓	—	—	—	—	3VA9472-0WA00	
		—	—	—	—	✓	—	—	—	3VA9672-0WA00	
		—	—	—	—	—	✓	✓	✓	3VA9872-0WA00	
	Terminal cover for 1-pole breakers	✓	—	—	—	—	—	—	3VA9131-0WD10		
	Terminal cover for 2-pole breakers	✓	—	—	—	—	—	—	3VA9131-0WD20		
	Terminal cover for 3-pole breakers	✓	—	—	—	—	—	—	3VA9131-0WD30	3VA9131-0WD31	
		—	✓	✓	—	—	—	—	—	3VA9271-0WD30	3VA9271-0WD31
		—	—	—	✓	—	—	—	—	3VA9471-0WD30	3VA9471-0WD31
		—	—	—	—	✓	—	—	—	3VA9671-0WD30	
		—	—	—	—	—	✓	✓	✓	3VA9871-0WD30	
	Terminal cover for 4-pole breakers	✓	—	—	—	—	—	—	3VA9131-0WD40		
		—	—	✓	—	—	—	—	—	3VA9271-0WD40	
		—	—	—	✓	—	—	—	—	3VA9471-0WD40	
		—	—	—	—	✓	—	—	—	3VA9671-0WD40	
	Terminal cover intermediate for 3-pole breakers	—	—	—	—	✓	—	—	3VA9671-0WE30		
	Terminal cover intermediate for 4-pole breakers	—	—	—	—	✓	—	—	3VA9671-0WE40		
	Terminal cover extended for 2-pole breakers	✓	—	—	—	—	—	—	3VA9131-0WF20		
	Terminal cover extended for 3-pole breakers	✓	—	—	—	—	—	—	3VA9131-0WF30	3VA9131-0WF31	
		—	✓	✓	—	—	—	—	—	3VA9271-0WF30	3VA9271-0WF31
		—	—	—	✓	—	—	—	—	3VA9471-0WF30	3VA9471-0WF31
		—	—	—	—	✓	—	—	—	3VA9671-0WF30	
	Terminal cover extended for 4-pole breakers	✓	—	—	—	—	—	—	3VA9131-0WF40		
		—	✓	✓	—	—	—	—	—	3VA9271-0WF40	
		—	—	—	✓	—	—	—	—	3VA9471-0WF40	
		—	—	—	—	✓	—	—	—	3VA9671-0WF40	
	Terminal cover offset for 3-pole breakers	—	—	—	✓	—	—	—	3VA9471-0WG30		
	Terminal cover offset for 4-pole breakers	—	—	—	✓	—	—	—	3VA9471-0WG40		
	Terminal cover extended for 3-pole breakers	—	—	—	—	—	✓	—	3VA9771-0WP30		
		—	—	—	—	—	✓	✓	—	3VA9871-0WP30	
		—	—	—	—	—	✓	✓	—	3VA9871-0WF30	

Phase barriers, terminal covers, and insulating plates

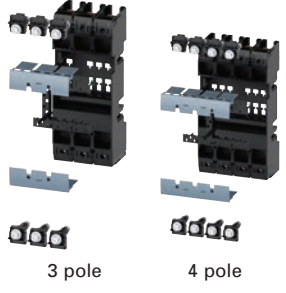
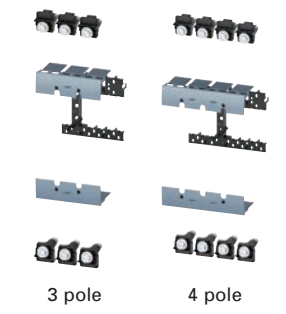
	Type	For molded case circuit breakers / rated current				Part Number
		3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	
	Rear insulating plate extended for 2-pole breakers	✓	—	—	—	3VA9131-0WJ20
	Rear insulating plate extended for 3-pole breakers	✓	—	—	—	3VA9131-0WJ30
		—	✓	✓	—	3VA9271-0WJ30
		—	—	—	✓	3VA9471-0WJ30
	Rear insulating plate extended for 4-pole breakers	✓	—	—	—	3VA9131-0WJ40
		—	—	✓	—	3VA9271-0WJ40
		—	—	—	✓	3VA9471-0WJ40
	Rear insulating plate offset for 3-pole breakers	—	—	—	✓	3VA9471-0WK30
	Rear insulating plate offset for 4-pole breakers	—	—	—	✓	3VA9471-0WK40
	Control wire tap for busbar (for fixed mounting)	—	✓	✓	—	3VA9270-0WC00
		—	—	—	✓	3VA9470-0WC00

3VA Molded Case Circuit Breakers



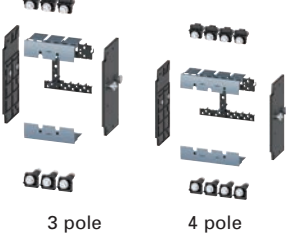
3VA Plug-in and Draw-out Technology

Selection

Plug-in socket

	Type	For molded case circuit breakers / rated current			Part Number
		3VA61/62 150A/250A	3VA63 400A	3VA64 600A	
 <p>3 pole 4 pole</p>	Plug-in unit, 3-pole, complete kit Consists of: Plug-in socket, Plug-in unit, conversion kit, Mounting screw kit	✓	—	—	3VA9143-0KP00
		—	✓	—	3VA9343-0KP00
		—	—	✓	3VA9443-0KP00
	Plug-in unit, 4-pole, complete kit Consists of: Plug-in socket, Plug-in unit, conversion kit, Mounting screw kit	✓	—	—	3VA9144-0KP00
		—	✓	—	3VA9344-0KP00
		—	—	✓	3VA9444-0KP00
 <p>3 pole 4 pole</p>	Plug-in unit, 3-pole, conversion kit Consists of: Screw-fastened terminal covers for molded case circuit breakers, Plug-in contacts, Cable cage, Autotrip plunger	✓	—	—	3VA9143-0KP10
		—	✓	✓	3VA9343-0KP10
	Plug-in unit, 4-pole, conversion kit Consists of: Screw-fastened terminal covers for molded case circuit breakers, Plug-in contacts, Cable cage, Autotrip plunger	✓	—	—	3VA9144-0KP10
		—	✓	✓	3VA9344-0KP10

Draw-out units

	Type	For molded case circuit breakers / rated current			Part Number
		3VA61/62 150A/250A	3VA63 400A	3VA64 600A	
 <p>3 pole</p>	Draw-out unit, 3-pole, complete kit Consists of: Draw-out socket, Draw-out unit, conversion kit, Mounting screw kit	✓	—	—	3VA9143-0KD00
		—	✓	—	3VA9343-0KD00
		—	—	✓	3VA9443-0KD00
 <p>4 pole</p>	Draw-out unit, 4-pole, complete kit Consists of: Draw-out socket, Draw-out unit, conversion kit, Mounting screw kit	✓	—	—	3VA9144-0KD00
		—	✓	—	3VA9344-0KD00
		—	—	✓	3VA9444-0KD00
 <p>3 pole 4 pole</p>	Draw-out unit, 3-pole, conversion kit Consists of: Screw-fastened terminal covers, Side wall, Plug-in contacts, Cable cage, Autotrip plunger	✓	—	—	3VA9143-0KD10
		—	✓	✓	3VA9343-0KD10
	Draw-out unit, 4-pole, conversion kit Consists of: Screw-fastened terminal covers, Side wall, Plug-in contacts, Cable cage, Autotrip plunger	✓	—	—	3VA9144-0KD10
		—	✓	✓	3VA9344-0KD10

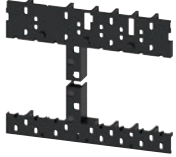





Note: Crank handle for the drawout unit must be ordered separately.

3VA Molded Case Circuit Breakers

3VA Plug-in and Draw-out Technology

Selection

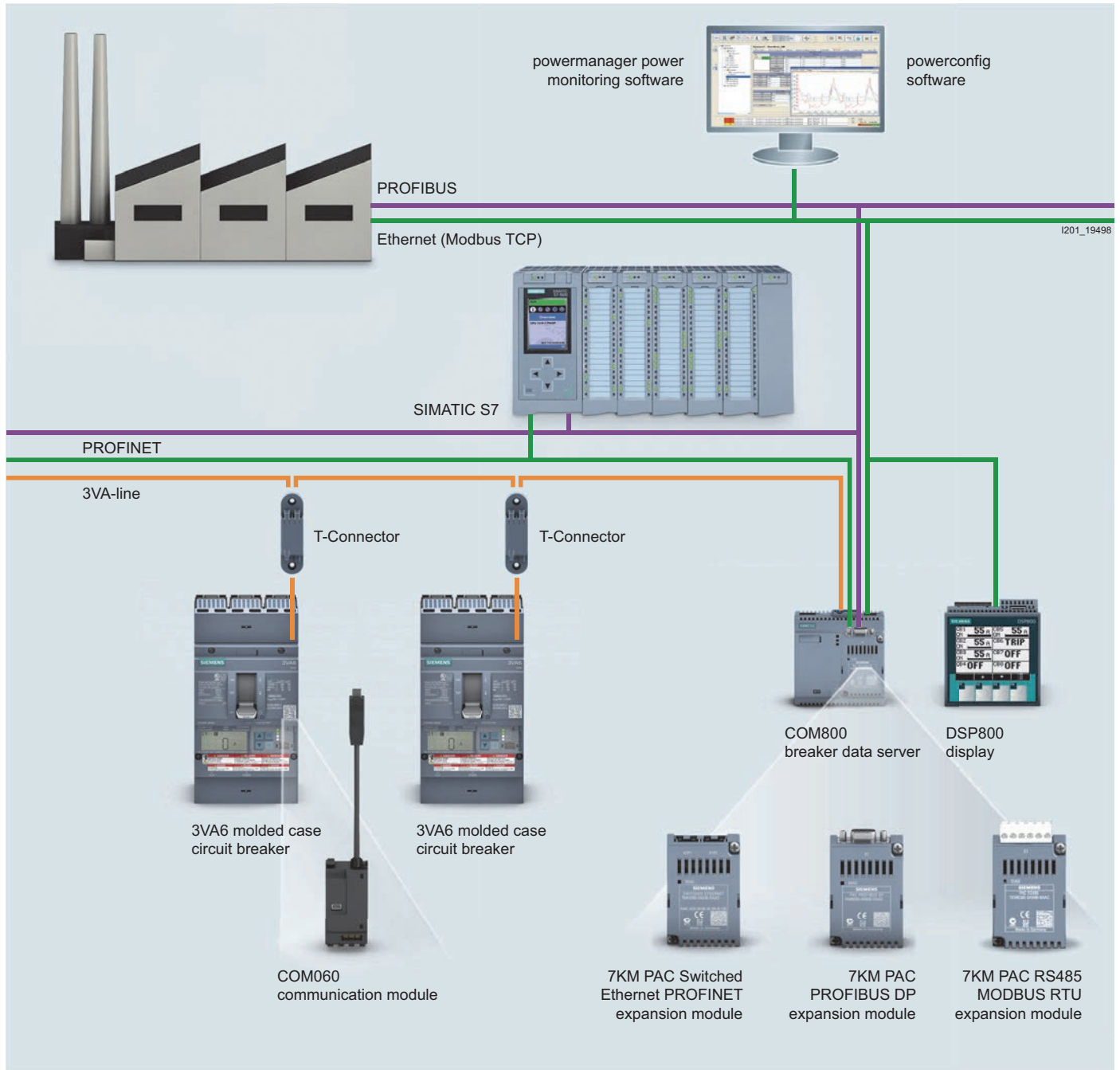
Accessories

	Type	For molded case circuit breakers / rated current		Part Number
		3VA61/62 150A/250A	3VA63/64 400A/600A	
	Cable cage for plug-in/draw-out unit 3-/4-pole (spare part) Cable duct for routing of the required cables from the internal acc. on the back of the breaker.	✓	—	3VA9167-0KB02
		—	✓	3VA9367-0KB02
	Door feedthrough	✓	—	3VA9147-0KT00
		—	✓	3VA9347-0KT00
	Autotrip plunger Plug-in unit	✓	—	3VA9267-0KP81
		—	✓	3VA9457-0KP81
	Autotrip plunger Draw-out unit	✓	—	3VA9267-0KD81
		—	✓	3VA9457-0KD81
	Terminal cover for plug-in/draw-out unit, 3-pole (spare part) To provide circuit breaker touch protection, for mounting on the molded case circuit breaker	✓	—	3VA9143-0KB01
		—	✓	3VA9343-0KB01
	Terminal cover for plug-in/draw-out unit, 4-pole (spare part) To provide circuit breaker touch protection, for mounting on the molded case circuit breaker	✓	—	3VA9144-0KB01
		—	✓	3VA9344-0KB01
	Crank handle for draw-out unit Insulated, including crank holder			3VA9987-0KD81





Other Accessories

	Type	Part Number
	Communication link for draw-out unit Consists of: Cable kit with 3 special position signaling switches, connecting cable 3VA9987-0KC10	3VA9977-0KC00
	Position signaling switches For draw-out unit	3VA9977-0KB00
	Spare connecting cable To connect the position signaling switches for communication with the COM060	3VA9987-0KC10
	Auxiliary circuit connector ■ For draw-out units	3VA9977-0KD80
	Auxiliary circuit connector ■ For plug-in units	3VA9977-0KP80
	Cylinder lock (type Ronis) ■ Includes a lock with 2 keys ■ For locking ■ For installation in all rotary operators with shaft stub ■ For mounting in the adapter kit for the accessories component	3VA9980-0VL10
		3VA9980-0VL30
		3VA9980-0VL40
	Cylinder lock adapter for draw-out unit ■ For fitting a cylinder lock in the right-hand side wall of the draw-out unit ■ To prevent unauthorized withdrawal or insertion of the circuit breaker; ■ Circuit breaker can be locked in the CONNECT, TEST, or DISCONNECT position	3VA9970-0LF40






Communications overview




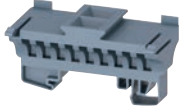







Modules

	Type	For molded case circuit breakers / rated current		Part Number
		3VA61/62 150A/250 A	3VA63/64/65/66 400A/600A 800A/1000A	
	24 V Module ■ 24 V DC ■ For mounting in the right-hand accessories compartment of the 3VA6 ■ Optional energy supply for the ETU, also includes continuous operation of the ETU display and the metering function of the ETU 8-series	✓	—	3VA9177-0TB50
		—	✓	3VA9377-0TB50
	COM060 communication module ■ For mounting in the right-hand accessories compartment of the 3VA6 molded case circuit breaker (including ETU power supply) ■ Communication with the COM800/COM100 breaker data server via the 3VA-line ■ Including a T-Connector	✓	—	3VA9177-0TB10
		—	✓	3VA9377-0TB10
	Spare SLC adapter COM060, 24 V module accessory for: ■ 3VA61/62 100/150/250	✓	—	3VA9187-0TB60
	Spare SLC adapter COM060, 24 V module accessory for: ■ 3VA63/64 400/600	—	✓	3VA9387-0TB60





Breaker data server

	Type	Part Number
	COM800 breaker data server ■ 2 terminating resistors ■ Central communication module for connecting up to eight 3VA6 molded case circuit breakers via the 3VA-line ■ Ethernet 10/100 Mbit/s interface ■ Communication via Ethernet (Modbus TCP) ■ Module slot for plugging on an optional PROFIBUS DP, PROFINET or RS485 module	3VA9977-0TA10
	COM100 breaker data server ■ 2 terminating resistors ■ Central communication module for connecting one 3VA6 molded case circuit breaker ■ Ethernet 10/100 Mbit/s interface ■ Communication via Ethernet (Modbus TCP) ■ Module slot for plugging on an optional PROFIBUS DP, PROFINET or RS485 module	3VA9977-0TA20
	7KM PAC PROFIBUS DP expansion module ■ The 7KM PAC PROFIBUS DP expansion module is used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFIBUS DPV1 ■ The 7KM PAC PROFIBUS DP expansion module provides the status and measured quantities of the 3VA molded case circuit breaker for the PROFIBUS DP master. It receives information (e.g. commands) from the PROFIBUS DP master, and forwards this information to the 3VA molded case circuit breaker	7KM9300-0AB01-0AA0
	7KM PAC Switched Ethernet PROFINET expansion module ■ The 7KM PAC Switched Ethernet PROFINET expansion module is used to connect the COM800/COM100 breaker data server, and the connected 3VA molded case circuit breaker, to PROFINET via two Ethernet interfaces ■ The 7KM PAC Switched Ethernet PROFINET expansion module provides the status and measured quantities of the 3VA molded case circuit breaker to PROFINET via the PROFINET IO, PROFlenergy and Modbus TCP protocols	7KM9300-0AE01-0AA0
	7KM PAC RS485 Modbus RTU expansion module ■ The 7KM PAC RS485 Modbus expansion module is used to connect the COM800/COM100 breaker data server, and the 3VA molded case circuit breaker connected to it, to Modbus RTU ■ The 7KM PAC RS485 Modbus expansion module provides the status and measured quantities of the 3VA molded case circuit breaker for the Modbus RTU master. It receives information (e.g. commands) from the Modbus RTU master, and forwards this information to the 3VA molded case circuit breaker	7KM9300-0AM00-0AA0


Accessories for Communication

	Type	Part Number
	T-Connector <ul style="list-style-type: none"> ■ Spare part ■ Provides spur line feeder to COM060 and loops to the next circuit breaker ■ Includes a connection adapter for mounting on the 3VA6 breaker enclosure 	3VA9987-0TG10
	DIN rail adapter For snapping the T-Connector onto a DIN rail	3VA9987-0TG11
	Preassembled T-Connector-to-T-Connector or T-Connector-to-COM800/ COM100 connecting cable <ul style="list-style-type: none"> ■ 0.4 m long 	3VA9987-0TC10
	<ul style="list-style-type: none"> ■ 1 m long 	3VA9987-0TC20
	<ul style="list-style-type: none"> ■ 2 m long 	3VA9987-0TC30
	<ul style="list-style-type: none"> ■ 4 m long 	3VA9987-0TC40
	Preassembled connecting cable for extending the COM060-to-T-Connector spur line connection <ul style="list-style-type: none"> ■ 0.4 m long 	3VA9987-0TF20
	<ul style="list-style-type: none"> ■ 0.8 m long 	3VA9987-0TF10
	Additional bus terminating resistors	3VA9987-0TE10
	Voltage tap to external N conductor Cable for connecting the neutral point for the metering function of the 8-Series ETU, length 1.5 m	3VA9987-0UC10
	External current transformer as straight-through transformer. Connection of an external current transformer for the N conductor for 3-pole 3VA6 molded case circuit breakers for 5-series and 8-series ETUs (ETU850, ETU856, ETU860), including connecting cable <ul style="list-style-type: none"> ■ In = 25 ... 150 A 	3VA9077-0NA10
	<ul style="list-style-type: none"> ■ In = 160 ... 350 A 	3VA9177-0NA10
	<ul style="list-style-type: none"> ■ In = 400 ... 630 A 	3VA9377-0NA10
	<ul style="list-style-type: none"> ■ In = 600 ... 1000 A 	3VA9677-0NA10
	<ul style="list-style-type: none"> ■ In = 1600/2000 A 	3VA9877-0NA10
	DSP800 display <ul style="list-style-type: none"> ■ For displaying the status, measured values and parameters of up to 8 3VA6 molded cases circuit breakers ■ Connection to the COM800/COM100 via Ethernet for displaying information of the COM800/COM100 and the connected 3VA6 molded case circuit breaker 	3VA9977-0TD10
	EFB300 <ul style="list-style-type: none"> ■ External function box for connection to the ETU of the 3VA6 molded case circuit breaker ■ 4 digital outputs for information output, 1 digital input ■ ZSI functionality ■ S0 interface ■ Including cable 1.5 m in length 	3VA9977-0UA10
	Connecting cable for EFB300 and MMB300. Spare part <ul style="list-style-type: none"> ■ 1.5 m long 	3VA9987-0UB10
	<ul style="list-style-type: none"> ■ 3.0 m long 	3VA9987-0UB20
	<ul style="list-style-type: none"> ■ 3.0 m long for 3VA with EFB and RCD820 	3VA9987-0UB30

Test devices

	Type	Part Number
	<p>TD300</p> <ul style="list-style-type: none"> ■ Connection to the front interface of the ETU ■ Test device for activating the ETU and triggering a test trip 	<p>3VA9977-0MA10</p>
	<p>TD500</p> <ul style="list-style-type: none"> ■ Connection to the front interface of the ETU ■ Initiation of various test trips (LSING) ■ USB interface for connection of a PC using powerconfig ■ ETU parameterization ■ Including external power supply unit with adapter for Europe, UL and GB ■ Including connecting cable to the 3VA6 molded case circuit breaker 	<p>3VA9977-0MB10</p>
	<p>Spare part: External power supply for TD500 110 ... 240 V AC</p>	<p>3VA9987-0MX10</p>
	<p>Spare part: Cable for connecting to the TD500 to the 3VA6 molded case circuit breaker</p>	<p>3VA9977-0MY10</p>

Maintenance Mode Box



	<p>MMB300</p> <ul style="list-style-type: none"> ■ Realization of the NEC 240.87 (Arc Energy Reduction) -> personal protection during maintenance work ■ Switch into maintenance mode by changing the I- and G-protection to the lowest possible value through an external signal (e.g. door contact) ■ Available for all 3VA6 circuit breakers with electronic trip unit ■ Daisy chain up to 8 circuit breakers equipped with MMB300 ■ Additional digital output (D01) for ETU signals available ■ Capable of DIN rail mounting ■ Includes cable 1.5m in length 	<p>3VA9977-0UF10</p>
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3VA Molded Case Circuit Breakers

3VA Accessories for Locking, Blocking and Interlocking

Selection

Locking, Blocking, & Interlocking






	Type	For molded case circuit breakers/ rated current						Part Number	
		3VA4 125A	3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A		3VA5 3VA6 1200A 2000A
 <p>3VA51</p>	Blocking device for the handle	—	✓	—	—	—	—	3VA9038-0LB10	
		—	—	✓	✓	✓	—	3VA9378-0LB10	
		—	—	—	—	—	—	✓	3VA9877-0LB10
 <p>3VA5/3VA6 3VA4</p>	Padlock device for the handle	✓	—	—	—	—	—	3VA9038-0LB11	
		—	—	✓	✓	—	—	3VA9138-0LB11	
		—	—	—	—	✓	—	3VA9338-0LB11	
		—	—	—	—	—	✓	3VA9578-0LB10	
		—	—	—	—	—	—	✓	3VA9877-0LB11
 <p>2 pole 3 pole</p>	3VA4 Handle tie & padlock 2-inch	✓	—	—	—	—	—	3VA9032-0LB20	
	3VA4 Handle tie & padlock 3-inch	✓	—	—	—	—	—	3VA9033-0LB20	
	Adapter kit for mounting the cylinder lock (type Ronis) in the accessories compartment of the molded case circuit breaker Comprising 2 cylinder lock casings (one for locking and one for interlocking) and the appropriate mounting module <ul style="list-style-type: none"> To implement an interlock or a lock: select suitable cylinder lock(s) For an interlock: select the same cylinder lock number 	—	✓	—	—	—	—	3VA9137-0LF10	
		—	—	✓	—	—	—	—	3VA9237-0LF10
		—	—	—	✓	—	—	—	3VA9147-0LF10
		—	—	—	—	✓	—	—	3VA9347-0LF10
		—	—	—	—	—	✓	—	3VA9577-0LF10
	Cylinder lock (type Ronis) <ul style="list-style-type: none"> Includes a lock with 2 keys For locking or interlocking For installation in all rotary operators with shaft stub For mounting in the adapter kit for the accessories compartment 	—	—	—	—	—	—	—	
		—	✓	✓	✓	✓	—	—	3VA9980-0VL10
		—	✓	✓	✓	✓	—	—	3VA9980-0VL30
		—	✓	✓	✓	✓	—	—	3VA9980-0VL40
	Sliding bar Complete kit for interlocking 2 circuit breakers <ul style="list-style-type: none"> The article number must be ordered 2X to implement an interlock between 3 breakers of the same size 	—	✓	—	—	—	—	3VA9138-0VF30	
		—	—	✓	—	—	—	—	3VA9238-0VF30
		—	—	—	✓	—	—	—	3VA9148-0VF30
		—	—	—	—	✓	—	—	3VA9348-0VF30
	Module for handle interlock using a bowden cable <ul style="list-style-type: none"> A separate handle interlock module is required for each switching device A Bowden cable must be ordered separately 	—	✓	—	—	—	—	3VA9137-0VF10	
		—	—	✓	—	—	—	—	3VA9237-0VF10
		—	—	—	✓	—	—	—	3VA9147-0VF10
		—	—	—	—	✓	—	—	3VA9347-0VF10
		—	—	—	—	—	✓	—	3VA9577-0VF10
	Rear interlock with rod Complete Kit <ul style="list-style-type: none"> Mounting frames are not included in scope of supply 	—	✓	✓	✓	✓	—	3VA9078-0VM10	
		—	—	—	—	—	—	—	—

3VA Molded Case Circuit Breakers


3VA Accessories for Locking, Blocking and Interlocking

Selection

Locking, Blocking, & Interlocking

	Type	For molded case circuit breakers/rated current						Part Number
		3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A 2000A	
	Rear interlock with rod Complete Kit ■ Mounting frames are included in scope of supply	—	—	—	—	✓	—	3VA9578-0VM10
	Rear interlock with rod Complete Kit for plug-in/draw-out unit ■ Mounting frames are not included in scope of supply	✓	✓	✓	✓	—	—	3VA9078-0VM30
	Rear interlock with rod Complete Kit for Circuit breaker, fixed-mounted	—	—	—	—	—	✓	3VA9873-0VM10
	Bowden cable ■ Length 0.6 m	✓	✓	✓	✓	✓	—	3VA9980-0VC10
	■ Length 1.0 m	✓	✓	✓	✓	✓	—	3VA9980-0VC20
	■ Length 1.5 m	✓	✓	✓	✓	✓	—	3VA9980-0VC30
	Mounting frame for rear interlock with rod ^{①②} Required for the complete mounting frame kit: ■ Profile poles	✓	✓	✓	✓	—	—	3VA9078-0VK10
	■ Mounting Plates	✓	—	—	—	—	—	3VA9138-0VK20
		—	✓	—	—	—	—	3VA9238-0VK20
		—	—	✓	—	—	—	3VA9248-0VK20
		—	—	—	✓	—	—	3VA9448-0VK20

Cover frame for door cut-out

	Cover frame for door cut-out for molded case circuit breaker ■ 3-pole, door cut-out without trip unit	✓	—	—	—	—	—	3VA9033-0SB10
		—	✓	✓	—	—	—	3VA9143-0SB10
		—	—	—	✓	—	—	3VA9373-0SB10
		—	—	—	—	✓	—	3VA9583-0SB10
		—	—	—	—	—	✓	3VA9877-0SB10
	Cover frame for door cut-out for molded case circuit breaker ■ 3-pole, door cut-out with trip unit	✓	—	—	—	—	—	3VA9033-0SB20
		—	✓	—	—	—	—	3VA9233-0SB20
		—	—	✓	—	—	—	3VA9143-0SB20
		—	—	—	✓	—	—	3VA9343-0SB20
		—	—	—	—	✓	—	3VA9583-0SB20
		—	—	—	—	—	✓	3VA9877-0SB20
	■ 3-pole, door cut-out with trip unit and connection area	—	—	—	—	—	✓	3VA9877-0SB60
		✓	—	—	—	—	—	3VA9034-0SB10
		—	✓	✓	—	—	—	3VA9144-0SB10
		—	—	—	✓	—	—	3VA9374-0SB10
		—	—	—	—	✓	—	3VA9584-0SB10
	Cover frame for door cut-out for molded case circuit breaker ■ 4-pole, door cut-out with trip unit	✓	—	—	—	—	—	3VA9034-0SB20
		—	✓	—	—	—	—	3VA9234-0SB20
		—	—	✓	—	—	—	3VA9144-0SB20
		—	—	—	✓	—	—	3VA9344-0SB20
Cover frame for door cut-out for MO320 motor operators	—	—	—	—	✓	—	3VA9584-0SB20	
	✓	—	—	—	—	—	3VA9033-0SB10	
	—	✓	✓	—	—	—	3VA9237-0SB30	
Cover frame for door cut-out for front mounted rotary operators	—	—	—	✓	—	—	3VA9377-0SB30	
	✓	—	—	—	—	—	3VA9033-0SB10	
	—	✓	✓	—	—	—	3VA9143-0SB10	
Cover frame for door cut-out for front mounted rotary operator with door interlock	—	—	—	✓	—	—	3VA9373-0SB10	
	—	—	—	—	✓	—	3VA9377-0SB30	
	—	—	—	—	—	✓	3VA9583-0SB50	
Cover frame for door cut-out for door feedthrough	—	—	—	—	—	✓	3VA9877-0SB30	
	—	✓	✓	—	—	—	3VA9233-0SB20	
	—	—	—	✓	—	—	3VA9333-0SB20	
	Labeling plate for cover frame							3VA9087-0SX10

① 2 mounting plates are required. They are screwed onto the profile rail that can be ordered above. Different breakers can be mutually interlocked.


② Breakers with plug-in unit can be mounted on the mounting plates, but the profile rails cannot be used.

3VA Molded Case Circuit Breakers

3VA Accessories and Spare Parts

Selection

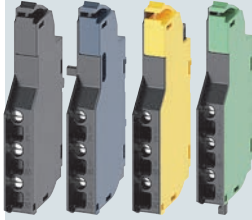
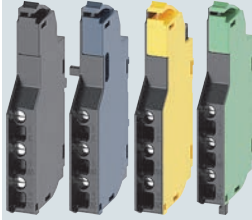
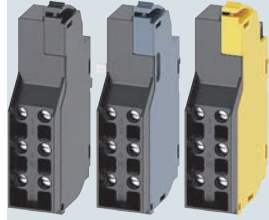
Other accessories

	Type	For molded case circuit breakers/rated current						Part Number
		3VA5 125A	3VA5 250A	3VA6 150A 250A	3VA5 3VA6 400A 600A	3VA5 3VA6 800A 1000A	3VA5 3VA6 1200A 2000A	
	Busbar adapter system with 60 mm busbar center-to-center spacing 3-pole	✓	—	—	—	—	—	8US1211-4SS00 ^①
		—	✓	✓	—	—	—	8US1213-4AP03 ^②
		—	—	—	✓	—	—	8US1213-4AH04 ^②
	Busbar adapter system with 60 mm busbar center to center spacing, bottom connection, 3-pole	✓	—	—	—	—	—	8US1215-4SS00
	Busbar adapter designed for 3VA breaker used as a main							
	Metric mounting screw kit For fixed mounted breakers 1-pole	✓	—	—	—	—	—	3VA9151-0SS10
	Metric mounting screw kit (2 pcs) For fixed mounted breakers 2-pole	✓	—	—	—	—	—	3VA9116-0SS10
	Metric mounting screw kit (4 pcs) For fixed mounted breakers 3-,4-pole	✓	✓	—	—	—	—	3VA9114-0SS10
	Metric mounting screw kit For fixed mounted breakers 3-pole	—	—	✓	—	—	—	3VA9126-0SS10
	Metric mounting screw kit For fixed mounted breakers 4-pole	—	—	✓	—	—	—	3VA9124-0SS10
	Metric mounting screw kit For fixed mounted breakers 3-,4-pole	—	—	—	✓	—	—	3VA9328-0SS10
	Metric mounting screw kit For plug-in and draw-out unit	—	—	✓	—	—	—	3VA9124-0SS10
	Metric mounting screw kit For plug-in and draw-out unit	—	—	—	—	—	✓	3VA9874-0SS10
	SAE mounting screw kit (2 pcs) For fixed mounted breakers 1-pole	✓	—	—	—	—	—	3VA9151-0SS00
	SAE Mounting screw kit (2 pcs) For fixed mounted breakers 2-,3-pole	✓	—	—	—	—	—	3VA9156-0SS00
	SAE Mounting screw kit (4 pcs) For fixed mounting breakers 4-pole	✓	—	—	—	—	—	3VA9154-0SS00
	SAE Mounting screw kit (4 pcs) For fixed mounted breakers 3-,4-pole and 3VA6 150/250 plug-in and draw-out units	—	✓	✓	—	—	—	3VA9164-0SS00
	SAE Mounting screw kit (2 pcs) For fixed mounted breakers 2-,3-pole	—	✓	✓	—	—	—	3VA9166-0SS00
	SAE Mounting screw kit (4 pcs) For fixed mounted breakers 2-,3-,4-pole and 3VA6 400/600 plug-in and draw-out units	—	—	—	✓	—	—	3VA9368-0SS00
	SAE mounting screw kit For plug-in and draw-out unit	—	—	—	—	—	✓	3VA9874-0SS00
	Replacement handle extension accessory	—	—	—	✓	—	—	3VA9487-0SC10
		—	—	—	—	✓	—	3VA9987-0SC10
		—	—	—	—	—	✓	3VA9877-0SC10

① Busbar adapter designed for 3VA breaker used as a feeder.

② Busbar adapter designed for 3VA breaker used as either a main or feeder.

Auxiliary switches electrical requirements

				Auxiliary switches and alarm switches HQ 				Auxiliary switches and alarm switches HQ_electronic 				Auxiliary switches and alarm switches HP 		
				AUX	LCS	TAS	EAS	AUX	LCS	TAS	EAS	AUX	LCS	TAS
Rated operational voltage	U_e	V AC 50 Hz		240				24				600		
		V DC		250				24				250		
Conventional free-air thermal current	$I_{th} = I_e$	A		6				0.3				10		
IEC Ratings Listed	AC-12	12 V	A	6				0.3				10		
		24 V	A	6				0.3				10		
		48 V	A	6				--				10		
		125 V	A	6				--				10		
		220/240 V	A	6				--				10		
		380/440 V	A	--				--				6		
		600 V	A	--				--				2		
	AC-15	12 V	A	3				0.3				6		
		2/4 V	A	3				0.3				6		
		48 V	A	3				--				6		
		125 V	A	3				--				6		
		220/240 V	A	3				--				6		
		380/440 V	A	--				--				2		
	DC-12	12 V	A	6				0.1				6		
24 V		A	4				0.1				6			
48 V		A	2				--				2			
110 V		A	0.5				--				0.6			
250 V		A	0.25				--				0.3			
DC-13	12 V	A	1				0.07				3			
	24 V	A	0.8				0.07				3			
	48 V	A	0.4				--				0.8			
	110 V	A	0.2				--				0.2			
	250 V	A	0.1				--				0.1			
Max. rated current (UL)	Inductive load (0.75-0.8 AC)	24 V	A	3				0.3				6		
		300 V	A	3				--				6		
		600 V	A	--				--				6		
	Pilot duty (AC)	24 V	A	3				--				6		
		127 V	A	3				--				6		
		240 V	A	3				--				3		
		480 V	A	--				--				1.5		
		600 V	A	--				--				1.2		
	Resistive load (DC)	24 V	A	0.25				0.1				0.3		
		250 V	A	0.25				--				0.3		
Resistive load - pilot duty sequence (DC)	125 V	A	0.6				--				0.9			
	250 V	A	0.3				--				0.55			
Minimum load	At 24 V DC	mA	70				0.5				70			
	At 5 V DC	mA	--				1				--			

Shunt trip/undervoltage electrical requirements

				Shunt trip left STL	Shunt trip flexible STF	Undervoltage releases UVR	Universal release UNI
Power consumption U_e	12	V DC	W	50	--	--	--
	24	50 V AC/60 Hz	VA	50	--	--	--
	24 ... 30	V DC	W	7 ... 50	--	--	--
	48 ... 60	50 V AC/60 Hz	VA	15 ... 20	--	--	--
	48 ... 60	V DC	W	20 ... 30	--	--	--
	110 ... 127	50 V AC/60 Hz	VA	30 ... 40	--	--	--
	110 ... 127	V DC	W	30 ... 40	--	--	--
	208 ... 277	50 V AC/60 Hz	VA	16 ... 35	--	--	--
	220 ... 250	V DC	W	28 ... 35	--	--	--
	380 ... 600	50 V AC/60 Hz	VA	10 ... 30	--	--	--
	24	50 V AC/60 Hz	VA	--	300	--	--
	48 ... 60	50 V AC/60 Hz	VA	--	340 ... 600	--	--
	110 ... 127	50 V AC/60 Hz	VA	--	500 ... 650	--	--
	208 ... 277	50 V AC/60 Hz	VA	--	360 ... 650	--	--
	380 ... 500	50 V AC/60 Hz	VA	--	330 ... 600	--	--
	600	50 V AC/60 Hz	VA	--	300	--	--
	12 ... 250	V DC	W	--	--	< 2.5	--
24 ... 230	50 V AC/60 Hz	VA	--	--	< 2	--	
380 ... 480	50 V AC/60 Hz	VA	--	--	< 2.5	--	
12	V DC (Cat II; PELV/SELV)	W	--	--	--	UVR: < 2.5 SHT: 20	
24	V DC (Cat II; PELV/SELV)	W	--	--	--	UVR: < 2.5 SHT: 20	
48	V DC (Cat II; PELV/SELV)	W	--	--	--	UVR: < 2.5 SHT: 20	
Rated impulse withstand voltage		U_{imp}	kV	6		4	0.5
Making current		I_{max}	at V	1.5 A/24 V AC	18 A/24 V AC	5 mA/480 V	1.5 A/24 V
Maximum tripping time			ms	< 10			
Service life	Electrical trips			8500			
	Mechanical switching cycles of the circuit breaker			25000			
Priority over other control signals				Given			
Degree of protection	Lid of the accessories compartment closed			IP40			
	Lid of the accessories compartment open			IP 20			
Minimum signal duration			ms	40	40	--	40
Response voltage shunt trip	Pick-up (circuit breaker trips)	Us/V	%	70 ... 110		--	70 ... 110
Undervoltage release response voltage	Pick-up (circuit breaker can be switched on)	Us/V	%	--	--	85 ... 110	
	Pick-up (circuit breaker trips)	Us/V	%	--	--	35 ... 70	
Tripping frequency	Trips per hour			Unlimited	120	Unlimited	
Can be used for electrical interlocking of molded case circuit breakers				No	No	Yes	

Motor operator electrical requirements

MO320 motor operator	3VA5 125 A	3VA5 250 A	3VA6 150 A/ 250 A	3VA5 3VA6 400 A/ 600 A
Degree of protection	NEMA 1			
Rated control supply voltage (operating range of control supply voltage)	24 V ... 60 V DC (0.85 ... 1.26) 110 V ... 230 V AC/ 110 V ... 250 V DC (0.85 ... 1.1)			
Rating	250 W, max. 500 W (60 ms)			
Make time, typically	< 800 ms	< 1000 ms		< 1700 ms
Break time, typically	< 800 ms	< 1000 ms		< 1400 ms



DC breaking capacity according to UL489

3VA51			3VA52			3VA53			3VA54			DC single-pole disconnection	DC all-pole disconnection	
125 A (15- 125 A)			250 A (40 - 250 A)			400 A (200 - 400 A)			600 A (450 - 600 A)			Grounded ^①	Grounded ^①	Isolated
DC breaking capacity acc. UL489 in kA														
S	M	H	M	H	C	M	H	C	M	H	C			
125 V			250 V			250 V			250 V					
14	25	30	50	85	100	50	85	100	50	85	100			
250 V			500 V			500 V			500 V					
50	85	100	50	85	100	50	85	100	50	85	100			
500 V			750 V			600 V			600 V					
50	85	100	50	85	100	50	85	100	50	85	100			
600 V			1000 V			750 V			750 V				-	
50	85	100	50	85	100	50	85	100	50	85	100			
						1000 V			1000 V					
50	85	100	50	85	100	6	6	10	6	6	10			

Applies to MCCBs in line protection and MCS (if protected by a suitable overcurrent protection device).

With a non-grounded system, all poles must disconnect such that the load is isolated when switched off.

The grounded pole must always be assigned to the individual conducting path, so that in the event of a ground fault there are always 2 conducting paths in series in a circuit with 3-pole molded case circuit breakers, and 3 conducting paths in series in a circuit with 4-pole molded case circuit breakers.

Additional wiring configurations are available on request.

GF ground fault monitoring

① Minus pole grounded

② Also covers 1-pole circuit breaker in 2-pole frame