

3VF3 to 3VF8 Circuit-Breakers

3- and 4-pole, up to 2500 A

For other circuit-breakers
(complete program)
see Catalog NS PS

Order No. modifications

1st Order No. modification: undervoltage release or shunt release

Version with connecting leads (1 m long)

Rated control supply voltage U_c /frequency AC 50/60 Hz DC	Order No. modification 3VF.. ..-.....-□□. . ↑↑	Circuit-breaker					
		3VF3 Extra price	3VF4 Extra price	3VF5 Extra price	3VF6 Extra price	3VF7 Extra price	3VF8 Extra price
without auxiliary release	0A	●	●	●	●	●	●
with undervoltage release							
AC 9 to 12 V	1B	●	—	—	—	—	—
AC 12 V	1C	—	●	—	●	●	●
AC 24 V	1D	●	●	●	●	●	●
AC 48 V	1U	●	—	—	—	—	—
AC 48 to 60 V	1F	●	●	●	●	●	●
AC 60 V	1V	●	—	—	—	—	—
AC 110 to 127 V	1G	●	●	●	●	●	●
AC 208 to 240 V	1H	●	●	●	●	●	●
AC 380 to 500 V	1J	—	●	●	●	●	●
AC 380 to 480 V	1K	●	—	—	—	—	—
AC 480 to 525 V	1L	●	—	—	—	—	—
DC 12 V	1N	●	●	●	●	●	●
DC 24 V	1P	●	●	●	●	●	●
DC 48 V	1U	—	●	—	—	—	—
DC 48 to 60 V	1Q	—	●	●	●	●	●
DC 60 V	1V	●	—	—	—	—	—
DC 110 to 125 V	1R	●	●	●	●	●	●
DC 220 to 250 V	1S	●	●	●	●	●	●
with shunt release							
AC	DC						
12 to 24 V	12 to 24 V	7C	●	●	●	●	●
48 to 60 V	48 to 60 V	7J	—	●	●	—	—
48 to 60 V	—	7F	—	—	—	●	●
48 to 127 V	48 to 60 V	7G	●	—	—	●	—
—	48 to 60 V	7H	—	—	—	●	●
110 to 240 V	110 to 125 V	7K	●	●	●	—	—
—	110 to 125 V	7L	—	—	—	●	●
110 to 240 V	—	7M	—	—	—	●	●
380 to 440 V	220 to 250 V	7S	—	●	●	●	●
380 to 600 V	220 to 250 V	7T	●	—	—	—	—

2nd Order No. modification: auxiliary switches (HS) and alarm switches (AS)

Version with connecting leads (1 m long)

Complement HS=1 changeover AS=1 changeover	Order No. modification 3VF.. ..-.....-□□ ↑↑	Circuit-breaker					
		3VF3 Extra price	3VF4 Extra price	3VF5 Extra price	3VF6 Extra price	3VF7 Extra price	3VF8 Extra price
without auxiliary/alarm switch	A0	none	none	none	none	none	none
1 HS	B1	● ²⁾	●	●	●	●	—
2 HS	C1	● ²⁾	●	—	—	—	—
4 HS	E1	—	—	—	—	—	●
1 HS	F1	● ¹⁾	—	—	—	—	—
1 AS	G1	● ²⁾	●	●	●	—	—
4 HS + 2 AS	T1	—	—	—	—	—	●
1 HS + 1 AS	N1	● ²⁾	●	●	●	●	—

If no undervoltage release or shunt release is fitted, the following complements are also possible:

1 HS + 2 AS	R1	● ¹⁾	—	●	●	●	—
2 HS + 1 AS	P1	● ¹⁾	●	●	●	●	—
2 HS + 2 AS	S1	● ¹⁾	—	●	●	●	—

— version not possible ● version possible.

3VF3 to 3VF7 plug-in circuit breakers

3VF3 to 3VF7
plug-in circuit breakers
should be ordered as follows:
change the 12th position of the
Order No. to "7".
example: 3VF3112-1ML47-....
For 3VF3 to 3VF5: for suitable
plug-in sockets, see page 11/22.
For 3VF6 and 3VF7: for plug-in
chassis see page 11/22.

No. of poles	Circuit-breaker	3VF3 to 3VF7					
		3VF31 3VF32	3VF31 and 3VF32 for motor protection ¹⁾ , 3VF33	3VF4	3VF5	3VF6	3VF7
		Extra price	Extra price	Extra price	Extra price	Extra price	Extra price
3-pole		●	●	●	●	●	●
4-pole		●	●	●	●	●	●

1) Not possible for 3VF3 circuit-breakers for motor protection.

2) Not possible for 3VF3 circuit-breakers for motor protection with auxiliary release or DI module.

3VF3 to 3VF8 Circuit-Breakers

3- and 4-pole, up to 1250 A

For other circuit-breakers
(complete program)
see Catalog NS PS

Order No. modifications

1st Order No. modification: undervoltage release or shunt release

Version with terminal block¹⁾

Rated control supply voltage U_c /frequency AC 50/60 Hz DC	Order No. modification 3VF.. ..-.....-□□. . ↑↑	Circuit-breaker				
		3VF3 Extra price	3VF4 Extra price	3VF5 Extra price	3VF6 Extra price	3VF7 Extra price
without auxiliary release	0A	●	●	●	●	●
with under-voltage release		●				
AC 9 to 12 V	2B	●	–	–	–	–
AC 12 V	2C	–	●	●	●	●
AC 24 V	2D	●	●	●	●	●
AC 48 V	2U	●	–	–	–	–
AC 48 to 60 V	2F	–	●	●	●	●
AC 60 V	2V	●	–	–	–	–
AC 110 to 127 V	2G	●	●	●	●	●
AC 208 to 240 V	2H	●	●	●	●	●
AC 380 to 500 V	2J	–	●	●	●	●
AC 380 to 480 V	2K	●	–	–	–	–
AC 480 to 525 V	2L	●	–	–	–	–
DC 12 V	2N	●	–	–	–	–
DC 24 V	2P	●	●	●	●	●
DC 48 V	2U	●	●	●	●	●
DC 48 to 60 V	2Q	–	–	–	–	–
DC 60 V	2V	●	●	●	●	●
DC 110 to 125 V	2R	●	●	●	●	●
DC 220 to 250 V	2S	●	●	●	●	●
with shunt release						
AC	DC					
12 to 24 V	12 to 24 V	8C	●	●	●	●
48 to 60 V	48 to 60 V	8J	–	●	●	–
48 to 60 V	–	8F	–	–	–	●
48 to 127 V	48 to 60 V	8G	●	–	–	–
–	48 to 60 V	8H	–	–	–	●
110 to 240 V	110 to 125 V	8K	●	●	●	–
–	110 to 125 V	8L	–	–	–	●
110 to 240 V	–	8M	–	–	–	●
380 to 440 V	220 to 250 V	8S	–	●	●	●
380 to 600 V	220 to 250 V	8T	●	–	–	–

2nd Order No. modification: auxiliary switches (HS) and alarm switches (AS)

Version with terminal block¹⁾

Complement	Order No. modification 3VF.. ..-.....-□□ ↑↑	Circuit-breaker				
		3VF3 Extra price	3VF4 Extra price	3VF5 Extra price	3VF6 Extra price	3VF7 Extra price
HS=1 changeover AS=1 changeover						
without auxiliary/alarm switch	A0	●	●	●	●	●
1 HS	B2	● ²⁾	●	●	●	●
2 HS	C2	● ²⁾	●	●	●	●
1 AS	G2	● ²⁾	●	●	●	●
1 HS + 1 AS	N2	● ²⁾	●	●	●	●

If no undervoltage release or shunt release is fitted, the following complements are also possible:

1 HS + 2 AS	R2	● ³⁾	–	●	●	●
2 HS + 1 AS	P2	● ³⁾	●	–	–	–
2 HS + 2 AS	S2	● ³⁾	–	●	●	●

– version not possible ● version possible.

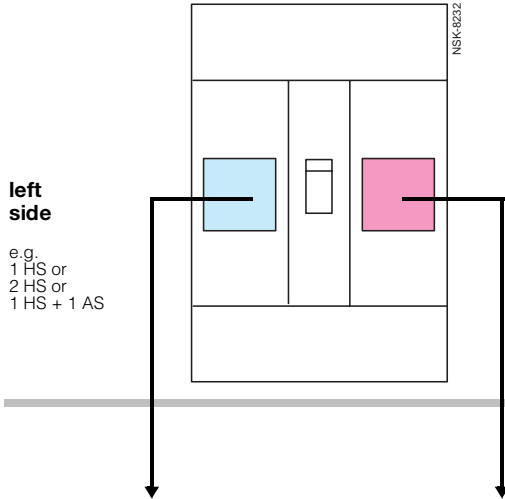
1) Due to the terminal block, the lateral spacing of the circuit-breakers must be at least 25 mm.
2) Not possible for 3VF3 circuit-breakers for motor protection with auxiliary release or DI module.
3) Not possible for 3VF3 circuit-breakers for motor protection.

3VF3 to 3VF8 Circuit-Breakers

3- and 4-pole, up to 2500 A

Accessories for retro-fitting –
auxiliary switches and alarm switches

For other circuit-breakers
(complete program)
see Catalog NS PS



Complement options for 3VF3 to 3VF8 circuit-breakers

The options for fitting the circuit-breaker with auxiliary switches or alarm switches, shunt releases, undervoltage releases and DI modules depends on the position they are fitted on the circuit-breaker (left or right), see table.

For versions of auxiliary switch or alarm switch, see page 11/34.

left side

e.g.
1 HS or
2 HS or
1 HS + 1 AS

right side

e.g.
1 HS or
4 HS or
2 AS

HS = 1 changeover auxiliary switch
AS = 1 changeover alarm switch

		Accessories for 3VF3		Accessories for 3VF4	
		Order No.	Price	Order No.	Price
3- or 4-pole					

Auxiliary/alarm switches (HS + AS) for retro-fitting Version with connecting leads

	Left side	Right side			
	3, 4-pole	3-pole	4-pole		
HS	1 HS or 2 HS or	1 HS or 1 HS or 2 HS or 4 HS or	1 HS or 1 HS or 2 HS or 4 HS or	³⁾ ²⁾ ³⁾	3VF9 322-1BB30 3VF9 322-1BB30 3VF9 322-1BB40 3VF9 322-1CB10 3VF9 322-1CB20 -
AS	1 AS or 2 AS or	1 AS or 2 AS or	1 AS or 2 AS or	³⁾	3VF9 422-1BB30 3VF9 422-1BB30 - 3VF9 422-1CB30 3VF9 422-1CB30 -
HS + AS	1 HS + 1 AS or	1 HS + 1 AS or	1 HS + 1 AS or	²⁾ ³⁾	3VF9 422-1GB10 3VF9 422-1GB20 3VF9 422-1GF20 3VF9 422-1GF20 - -
□, □, DI	□ or □ or DI				3VF9 322-1NB10 3VF9 322-1NB20 3VF9 322-1NF20 -
					see pages 11/18 and 11/25
					see pages 11/18 and 11/25

Other alternatives for 3VF8 circuit-breaker

HS		max. 3 × 4 HS or	max. 3 × 4 HS or
HS + AS		max. 3 × 4 HS + max. 3 × 2 AS or	max. 3 × 4 HS + 3 × 2 AS or
□ + HS + AS		□ + max. 3 × 4 HS + max. 2 × 2 AS or	□ + max. 3 × 4 HS + max. 2 × 2 AS or
□ + HS		max. 3 × □ + max. 3 × 4 HS or	max. 3 × □ + max. 3 × 4 HS or
□ + HS + AS		□ + max. 3 × 4 HS + max. 2 × 2 AS or	□ + max. 3 × 4 HS + max. 2 × 2 AS or
□ + □ + HS		□ + max. 2 × □ + max. 3 × 4 HS	□ + max. 2 × □ + max. 3 × 4 HS

Auxiliary/alarm switches (HS + AS) for retro-fitting Version with terminal block ¹⁾

	Left side	Right side			
	3, 4-pole	3-pole	4-pole		
HS	1 HS (only for 3-pole) or 2 HS (only for 3-pole) or	1 HS or 2 HS or	1 HS or 2 HS or	³⁾ ³⁾	- 3VF9 422-1BC20 - 3VF9 422-1CC20 -
AS	1 AS or 2 AS or	1 AS or		³⁾	3VF9 322-1BC10 3VF9 322-1BC20 3VF9 322-1CC10 3VF9 322-1CC20 -
HS + AS	1 HS + 1 AS or	1 HS + 1 AS		³⁾	3VF9 422-1GC10 3VF9 422-1GC20 3VF9 422-1GC20 -
□, □, DI	□ or □ or DI				3VF9 322-1GC10 3VF9 322-1GC20 3VF9 322-1HC10 -
					see pages 11/18 and 11/25
					see pages 11/18 and 11/25

□ Shunt release (see page 11/18)

□ Undervoltage release (see page 11/18)

DI DI module

1) Due to the terminal block, the lateral spacing of the circuit breakers must be at least 25 mm.

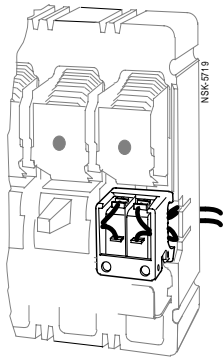
2) Only for 3VF3 for motor protection.

3VF3 to 3VF8 Circuit-Breakers

3- and 4-pole, up to 2500 A

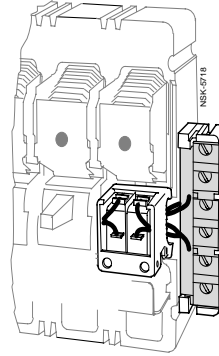
For other circuit-breakers
(complete program)
see Catalog NS PS

Accessories for retro-fitting –
auxiliary switches and alarm switches



**1 auxiliary switch
and 1 alarm switch
fitted on the right**

version with
connecting leads



**1 auxiliary switch
and 1 alarm switch
fitted on the right**

version with
terminal block

Accessories for 3VF5		Accessories for 3VF6		Accessories for 3VF7		Accessories for 3VF8	
Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price

3VF9 522-1BB30		3VF9 622-1BB30		3VF9 722-1BB30		-	
3VF9 522-1BB30		3VF9 622-1BB30		3VF9 722-1BB30		-	
-		-		-		-	
3VF9 522-1CB30		3VF9 622-1CB30		3VF9 722-1CB30		-	
3VF9 522-1CB30		3VF9 622-1CB30		3VF9 722-1CB30		-	
-		-		-		3VF9 822-1EB40	
3VF9 522-1GB10		3VF9 622-1GB10		3VF9 722-1GB10		-	
3VF9 522-1GB20		3VF9 622-1GB20		3VF9 722-1GB20		-	
3VF9 522-1GF20		3VF9 622-1GF20		3VF9 722-1GF20		-	
3VF9 522-1HB10		3VF9 622-1HB10		3VF9 722-1HB10		3VF9 822-1HB40	
-		-		-		-	
3VF9 522-1NB20		3VF9 622-1NB20		3VF9 722-1NB20		-	
-		-		-		-	

see pages 11/19 and 11/25

see pages 11/19 and 11/25

see pages 11/19 and 11/25

see pages 11/19 and 11/25

-		-		-		-	
3VF9 522-1BC20		3VF9 622-1BC20		3VF9 722-1BC20		-	
-		-		-		-	
3VF9 522-1CC20		3VF9 622-1CC20		3VF9 722-1CC20		-	
3VF9 522-1GC10		3VF9 622-1GC10		3VF9 722-1GC10		-	
3VF9 522-1GC20		3VF9 622-1GC20		3VF9 722-1GC20		-	
3VF9 522-1HC10		3VF9 622-1HC10		3VF9 722-1HC10		-	
-		-		-		-	
3VF9 522-1NC20		3VF9 622-1NC20		3VF9 722-1NC20		-	
-		-		-		-	

see pages 11/19 and 11/25

see pages 11/19 and 11/25

see pages 11/19 and 11/25

see pages 11/19 and 11/25

3) Not suitable for 3VF3 for motor protection.
4) Can be retro-fitted to circuit-breakers supplied from 02.96.

3VF3 to 3VF8 Circuit-Breakers

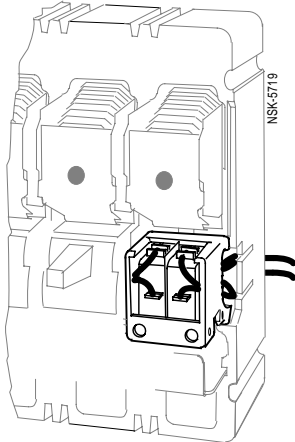
3- and 4-pole, up to 2500 A

For other circuit-breakers
(complete program)
see Catalog NS PS

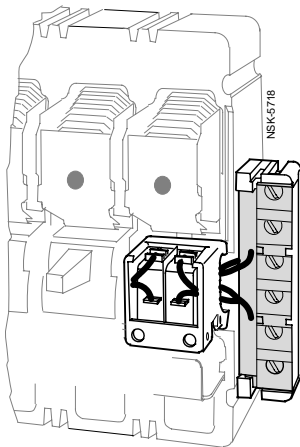
Accessories for retro-fitting

Shunt releases and undervoltage releases (for complement options, see page 11/34)

Auxiliary releases for fitting to left side of circuit-breaker up to 3VF7 (auxiliary switch shown as example) version with connecting leads



Auxiliary releases for fitting to left side of circuit-breaker up to 3VF7 (auxiliary switch shown as example) version with terminal block



Shunt release
for retro-fitting
left for 3VF3 to 3VF7,
right for 3VF8



AC V	DC V
12- 24 48- 60	12- 24 48- 60
48- 60 48-127	- 48- 60 48- 60
110-240 110-240	110-125 110-125 -
380-440 380-600	220-250 220-250

Version with connecting leads
Version with terminal block¹⁾

Undervoltage release
for retro-fitting
left for 3VF3 to 3VF7,
right for 3VF8



12 V AC AC 24 V AC 48-60 V AC (3VF3 only 48 V) 60 V AC (only 3VF3)
110-127 V AC 208-240 V AC 380-500 V AC (3VF3 only up to 480 V) 480-525 V AC

Version with connecting leads
Version with terminal block¹⁾

12 V DC 24 V DC 48-60 V DC (3VF3 only 48 V) 60 V DC (only 3VF3)
110-125 V DC 220-250 V DC

Version with connecting leads
Version with terminal block¹⁾

Delay unit for undervoltage release (220 to 250 V DC)

Rated control supply voltage $U_s =$
220 to 230 V AC/DC

Delay time:

0.3; 3.5 s
0.5; 0.8 s
1.7; 3.3 s
0.7; 1.4 s

Accessories for 3VF3

Order No. Price

3- or 4-pole

Accessories for 3VF4

Order No. Price

3VF9 321-1 . C10

-

3VF9 321-1 . G10

-

3VF9 321-1 . K10

-

3VF9 321-1 . T 10

H
J

3VF9 421-1 . C10
3VF9 421-1 . J10

-

-

-

3VF9 421-1 . K10

-

3VF9 421-1 . S10

-

H
J

3VF9 321-1 . B10
3VF9 321-1 . D10
3VF9 321-1 . U10
3VF9 321-1 . V10

3VF9 321-1 . G10
3VF9 321-1 . H10
3VF9 321-1 . K10
3VF9 321-1 . L10

B
C

3VF9 321-1 . N10
3VF9 321-1 . P10
3VF9 321-1 . U10
3VF9 321-1 . V10

B
C

3VF9 421-1 . C10
3VF9 421-1 . D10
3VF9 421-1 . F10

-

3VF9 421-1 . G10
3VF9 421-1 . H10
3VF9 421-1 . J10

-

B
C

3VF9 421-1 . N10
3VF9 421-1 . P10
3VF9 421-1 . Q10

-

3VF9 421-1 . R10
3VF9 421-1 . S10

-

B
C

3WX31 56-3JJ10
3TX4 490-1A
3TX4 701-0AN1

-

3WX31 56-3JJ10
-
3TX4 701-0AN1

1) Due to the terminal block, the lateral spacing of the circuit breakers must be at least 25 mm.

3VF3 to 3VF8 Circuit-Breakers

3- and 4-pole, up to 2500 A

For other circuit-breakers
(complete program)
see Catalog NS PS

Accessories for retro-fitting

Accessories for 3VF5		Accessories for 3VF6		Accessories for 3VF7		Accessories for 3VF8	
Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3VF9 521-1 . C10 3VF9 521-1 . J10		3VF9 621-1 . C10 -		3VF9 721-1 . C10 -		3VF9 821-1 . C40 -	
-		3VF9 621-1 . F10 -		3VF9 721-1 . F10 -		3VF9 821-1 . F40 -	
-		3VF9 621-1 . H10 -		3VF9 721-1 . H10 -		3VF9 821-1 . H40 -	
3VF9 521-1 . K10 -		- 3VF9 621-1 . L10 3VF9 621-1 . M10		- 3VF9 721-1 . L10 3VF9 721-1 . M10		- 3VF9 821-1 . L40 3VF9 821-1 . M40	
3VF9 521-1 . S10 -		3VF9 621-1 . S10 -		3VF9 721-1 . S10 -		3VF9 821-1 . S40 -	
↑ H J		↑ H J		↑ H J		↑ H -	
3VF9 521-1 . C10 3VF9 521-1 . D10 3VF9 521-1 . F10 -		3VF9 621-1 . C10 3VF9 621-1 . D10 3VF9 621-1 . F10 -		3VF9 721-1 . C10 3VF9 721-1 . D10 3VF9 721-1 . F10 -		3VF9 821-1 . C40 3VF9 821-1 . D40 3VF9 821-1 . F40 -	
3VF9 521-1 . G10 3VF9 521-1 . H10 3VF9 521-1 . J10 -		3VF9 621-1 . G10 3VF9 621-1 . H10 3VF9 621-1 . J10 -		3VF9 721-1 . G10 3VF9 721-1 . H10 3VF9 721-1 . J10 -		3VF9 821-1 . G40 3VF9 821-1 . H40 3VF9 821-1 . J40 -	
↑ B C		↑ B C		↑ B C		↑ B -	
3VF9 521-1 . N10 3VF9 521-1 . P10 3VF9 521-1 . Q10 -		3VF9 621-1 . N10 3VF9 621-1 . P10 3VF9 621-1 . Q10 -		3VF9 721-1 . N10 3VF9 721-1 . P10 3VF9 721-1 . Q10 -		3VF9 821-1 . N40 3VF9 821-1 . P40 3VF9 821-1 . Q40 -	
3VF9 521-1 . R10 3VF9 521-1 . S10 -		3VF9 621-1 . R10 3VF9 621-1 . S10 -		3VF9 721-1 . R10 3VF9 721-1 . S10 -		3VF9 821-1 . R40 3VF9 821-1 . S40 -	
↑ B C		↑ B C		↑ B C		↑ B -	
3WX31 56-3JJ10 -		3WX31 56-3JJ10 -		3WX31 56-3JJ10 -		3WX31 56-3JJ10 -	
3TX4 701-0AN1		3TX4 701-0AN1		3TX4 701-0AN1		3TX4 701-0AN1	