

# SENTRON Switching and Protection Devices – Molded Case Circuit Breakers

# 16



## 16/2 Introduction

### SENTRON 3VL Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A

- 16/6 General data
- 16/10 3-pole
- 16/34 4-pole
- 16/55 Options
- 16/58 Accessories and spare parts

### 3VF2 Molded Case Circuit Breakers

3VF2 Molded Case Circuit Breakers up to 100 A

- 16/99 3-pole, fixed-mounted versions
- 16/99 4-pole, fixed-mounted versions
- 16/100 Accessories and spare parts

### Technical Information

can be found at  
[www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support)

under Product List:  
 - Technical specifications

under Entry List:  
 - Updates  
 - Downloads  
 - FAQ  
 - Manuals  
 - Characteristic curves  
 - Certificates

and at  
[www.siemens.com/lowvoltage/configurators](http://www.siemens.com/lowvoltage/configurators)  
 - Configurators

## Introduction

## Overview



Type VL160X/3VL1 VL160/3VL2 VL250/3VL3 VL400/3VL4

## Molded case circuit breakers

## 3VL molded case circuit breakers up to 1600 A

Rated current  $I_n$  at 50 °C ambient temperature<sup>1)</sup> A 16 ... 160 50 ... 160 200 ... 250 200 ... 400

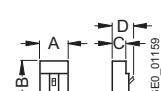
Number of poles 3 4 3 4 3 4 3 4

Rated operational voltage  $U_e$  50/60 Hz AC V 690 690 690 690 690 690 690 690  
DC<sup>2)</sup> V 500 500 600 600 600 600 600 600

## Overcurrent releases

Thermal-magnetic ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓  
Electronic LCD ETU/ETU -- -- ✓ ✓ ✓ ✓ ✓ ✓  
Replaceable -- -- ✓ ✓ ✓ ✓ ✓ ✓  
PROFIBUS module COM20 -- -- ✓ ✓ ✓ ✓ ✓ ✓

## Dimensions

Dimensions  


Dimension	Unit	VL160X/3VL1	VL160/3VL2	VL250/3VL3	VL400/3VL4
A	mm	105	139	105	139
B	mm	157	157	175	175
C	mm	81	81	81	81
D	mm	107	107	107	107

Switching capacity  $I_{cu}/I_{cs}$   
RMS value according to IEC 60947-2Standard switching capacity N<sup>3)</sup> (N)

Up to 240 V AC	kA	65/65	65/65	65/65	65/65
Up to 415 V AC	kA	55/55	55/55	55/55	55/55
Up to 440 V AC	kA	25/20	25/20	25/20	35/26
Up to 500/525 V AC	kA	18/14	25/20	25/20	25/20
Up to 690 V AC	kA	8/4 <sup>4)</sup>	12/6	12/6	15/8
Up to 250 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	--	--	--	--
Up to 600 V DC <sup>5)</sup>	kA	--	--	--	--

NEMA breaking capacity<sup>6)</sup>

Up to 480 V AC	kA	25	25	25	35
Up to 600 V AC	kA	8 <sup>4)</sup>	12	12	20

High switching capacity H<sup>3)</sup> (H)

Up to 240 V AC	kA	100/75	100/75	100/75	100/75
Up to 415 V AC	kA	70/70	70/70	70/70	70/70
Up to 440 V AC	kA	42/32	50/38	50/38	50/38
Up to 500/525 V AC	kA	30/23	40/30	40/30	40/30
Up to 690 V AC	kA	12/6 <sup>4)</sup>	12/6	12/6	15/8
Up to 250 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	30/30	32/32	32/32	32/32
Up to 600 V DC <sup>5)</sup>	kA	--	--	--	--

NEMA breaking capacity<sup>6)</sup>

Up to 480 V AC	kA	42	50	50	50
Up to 600 V AC	kA	12 <sup>4)</sup>	12	12	20

Very high switching capacity L<sup>3)</sup> (L)

Up to 240 V AC	kA	--	200/150	200/150	200/150
Up to 415 V AC	kA	--	100/75	100/75	100/75
Up to 440 V AC	kA	--	75/50	75/50	75/50
Up to 500/525 V AC	kA	--	50/38	50/38	50/38
Up to 690 V AC	kA	--	12/6	12/6	15/8
Up to 250 V DC <sup>5)</sup>	kA	--	32/32	32/32	32/32
Up to 500 V DC <sup>5)</sup>	kA	--	32/32	32/32	32/32
Up to 600 V DC <sup>5)</sup>	kA	--	32/32	32/32	32/32

NEMA breaking capacity<sup>6)</sup>

Up to 480 V AC	kA	--	75	75	75
Up to 600 V AC	kA	--	12	12	20

✓ Available  
-- Not available

<sup>1)</sup> 3VF2 at 40 °C ambient temperature.

<sup>2)</sup> Rated DC voltage applies only for circuit breakers with thermal-magnetic release.

For 3VL molded case circuit breakers according to UL 489 see Catalog LV 16.

# SENTRON Switching and Protection Devices – Molded Case Circuit Breakers

## Introduction



VL630/3VL5

VL800/3VL6

VL1250/3VL7

VL1600/3VL8

3VF2

**3VL molded case circuit breakers up to 1600 A**

**3VF2 molded case circuit breakers up to 100 A**

315 ... 630

800

1000 ... 1250

1600

16 ... 100

3

4

3

4

3

4

3

4

3 and 4

690  
600

690  
600

--

--

690

690

--

690

Up to 415  
--

✓  
✓  
✓

✓  
✓  
✓

✓  
✓  
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✓

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✓  
✓

✓  
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--

190  
279  
102  
138

253  
279  
102  
138

190  
406  
114  
151

253  
406  
114  
151

229  
406  
152  
207

305  
406  
152  
207

229  
406  
152  
207

305  
406  
152  
207

76/102  
124  
68  
73

65/65  
55/55  
35/26  
25/20  
20/10  
30/30  
--  
--  
25  
20

65/65  
55/55  
35/26  
25/20  
20/10  
--  
--  
25  
20

65/35  
55/28  
35/26  
25/20  
20/10  
--  
--  
25  
20

65/35  
55/28  
35/26  
25/20  
20/10  
--  
--  
25  
20

65/33  
18/9  
--  
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--  
--

100/75  
70/70  
50/38  
40/30  
20/10  
30/30  
30/30  
--  
50  
30

100/75  
70/70  
50/38  
40/30  
20/10  
--  
--  
50  
30

100/50  
70/35  
50/38  
40/30  
30/15  
--  
--  
50  
30

100/50  
70/35  
50/38  
40/30  
30/15  
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50  
30

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200/150  
100/75  
75/50  
50/38  
20/10  
30/30  
30/30  
30/30

200/150  
100/75  
75/50  
50/38  
20/10  
--  
--  
65  
35

200/100  
100/50  
75/50  
50/38  
35/17  
--  
--  
65  
35

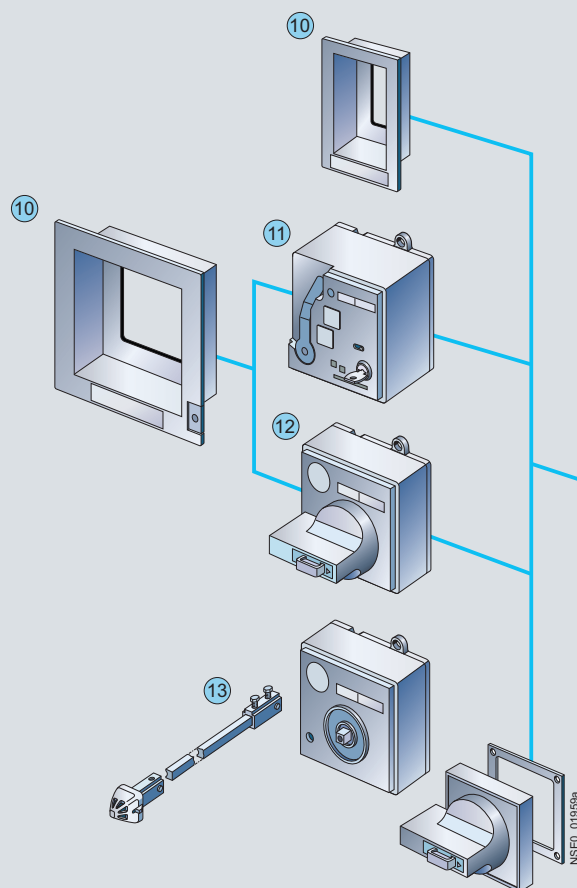
200/100  
100/50  
75/50  
50/38  
35/17  
--  
--  
65  
35

--  
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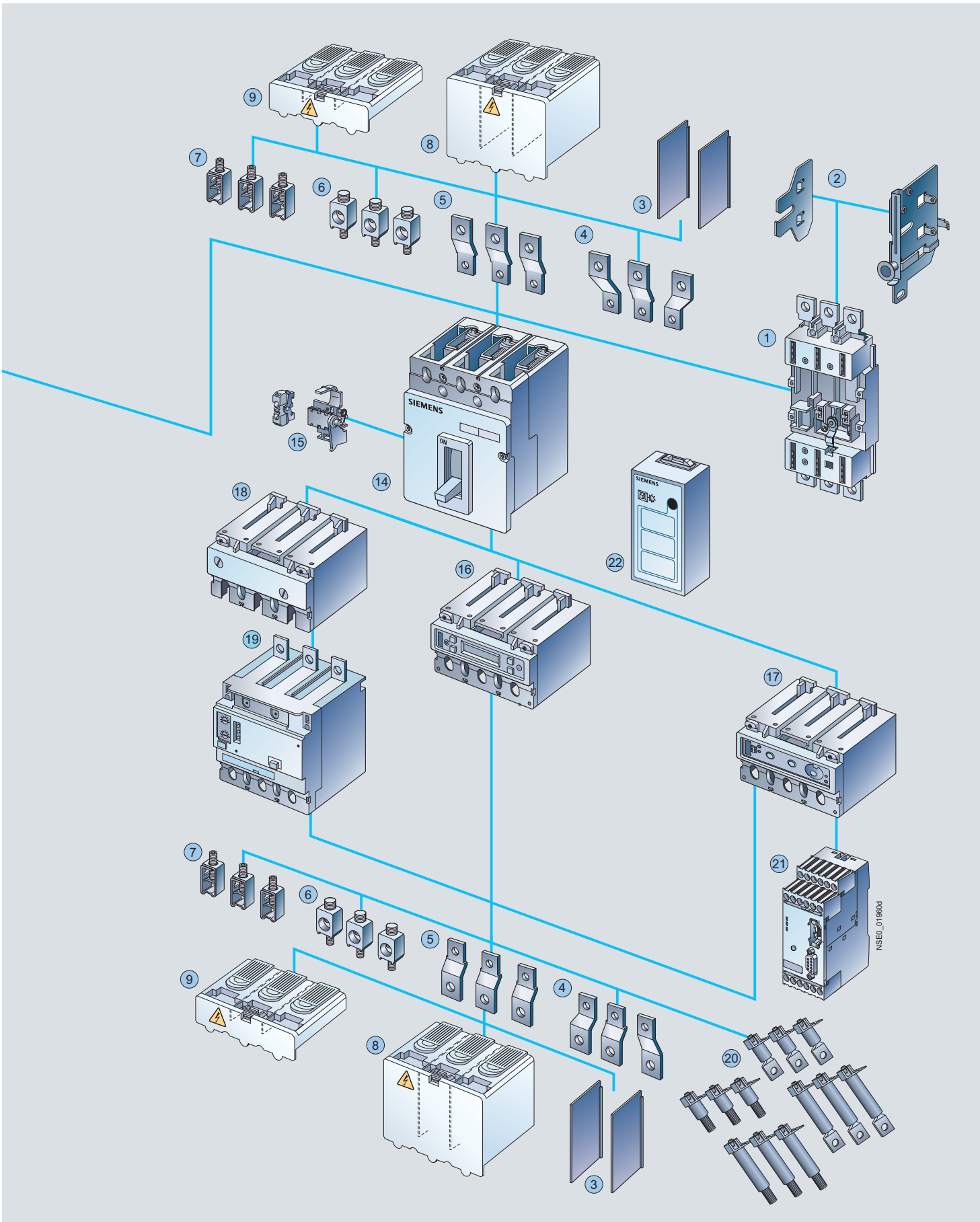
3) At 240 V AC, 415 V AC and 525 V AC max. 5 % overvoltage, at 440 V AC, 500 V AC and 690 V AC max. 10 % overvoltage, at 250/500/600 V DC max. 5 % overvoltage.  
4) Rated current  $I_n \geq 25$  A.

5) The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications; see [Technical Information at www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support); time constant  $t = 15$  ms.  
6) The NEMA breaking capacity can be found on the rating plate of each IEC circuit breaker.

## Introduction



- ① Withdrawable/plug-in bases (pages 16/70 to 16/75)
- ② Side walls for withdrawable version (pages 16/70 to 16/75)
- ③ Phase barriers (pages 16/77 to 16/82)
- ④ Flared front busbar connecting bars (pages 16/77 to 16/82)
- ⑤ Straight connecting bars (pages 16/77 to 16/82)
- ⑥ Circular conductor terminals for Al/Cu (pages 16/80 to 16/82)
- ⑦ Box terminals for Cu (pages 16/77 to 16/82)
- ⑧ Extended terminal covers (pages 16/77 to 16/82)
- ⑨ Standard terminal covers (pages 16/77 to 16/82)
- ⑩ Masking frames/cover frames for door cutout (pages 16/94 to 16/97)
- ⑪ Motorized operating mechanisms with stored energy mechanism (pages 16/64 to 16/65)
- ⑫ Front-operated rotary operating mechanisms (pages 16/61 to 16/66)
- ⑬ Door-coupling rotary operating mechanisms (pages 16/61 to 16/66)
- ⑭ SENTRON 3VL circuit breakers (pages 16/10 to 16/55)
- ⑮ Internal accessories (pages 16/55, 16/58 to 16/59)
- ⑯ Electronic overcurrent releases LCD ETU (pages 16/20, 16/24, 16/28, 16/44, 16/46)
- ⑰ Electronic releases with communication function (pages 16/12 to 16/28 and 16/40 to 16/50)
- ⑱ Thermal/magnetic overcurrent releases (pages 16/10 to 16/12, 16/30, 16/34 to 16/38, 16/52)
- ⑲ RCD modules (page 16/76)
- ⑳ Rear terminals – flat and round (pages 16/77 to 16/82)
- ㉑ COM20 communication modules to the PROFIBUS DP (page 16/98)
- ㉒ Battery power supplies with test function for electronic releases (pages 16/84 to 16/88)



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### General data

#### Benefits

- The compact design of the SENTRON 3VL circuit breakers coupled with excellent characteristics fulfills the high demands of today's electrical distribution systems.
- These circuit breakers offer a broad product range, improved technology, space savings and easy operation.
- They are available both in thermal-magnetic (16 A to 630 A) and in electronic versions (63 A to 1600 A).

#### Communication

The use of modern communication-capable circuit breakers opens up completely new possibilities in terms of start-up, parameterization, diagnostics, maintenance and operation. This allows many different ways of reducing costs and improving productivity in industrial plants, buildings and infrastructure projects to be achieved:

- Fast and reliable parameterization
- Timely information and response can prevent plant stoppages
- Effective diagnostics management

Measured values are the basis for efficient load management, for drawing up power demand profiles and for assigning power to cost centers.

#### Communication:

- For molded case circuit breakers with communication function see pages 16/12 to 16/28 and 16/40 to 16/50.
- For accessories, see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

#### Application

The different versions of SENTRON 3VL circuit breakers are suitable for the following applications:

- Incoming and outgoing circuit breakers in distribution systems
- Switching and protection devices for motors, transformers and capacitors
- Disconnecter units with features for stopping and switching off in an emergency (main control switches and EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms and terminal covers.

The SENTRON 3VL circuit breakers are available in the following versions:

1. For system protection (in 3- and 4-pole versions)  
The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.
2. For motor protection (in 3-pole version)  
The overload and short-circuit releases are designed for optimized protection and direct-on-line starting of induction squirrel-cage motors. The circuit breakers for motor protection are susceptible to phase failure and feature an adjustable trip class. The electronic releases operate with a microprocessor.

3. For starter combinations (in 3-pole version)  
These circuit breakers are used both for short-circuit protection as well as for isolating functions, which may be required in starter combinations consisting of circuit breakers, overload relays and motor contactors. These circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
4. As non-automatic circuit breakers (in 3- and 4-pole versions)  
These circuit breakers can be used as feeder circuit breakers, main control switches or non-automatic circuit breakers without overload protection. They incorporate an integrated short-circuit self-protection system, eliminating the need for backup fuses.

#### Switching capacity

- N** Circuit breakers with standard switching capacity N ( $I_{cu}$  up to 55 kA at 415 V)
- H** Circuit breakers with high switching capacity H ( $I_{cu}$  up to 70 kA at 415 V)
- L** Circuit breakers with very high switching capacity H ( $I_{cu}$  up to 100 kA at 415 V)

These circuit breakers are indicated in the selection and ordering data by orange backgrounds.

#### Standards and specifications

SENTRON 3VL circuit breakers comply with:

IEC 60947-1, EN 60947-1,  
DIN VDE 0660, Part 100,  
IEC 60947-2, EN 60947-2,  
DIN VDE 0660, Part 101.

Isolating features according to IEC 60947-2, EN 60947-2.

Disconnecting features (main control switches) according to EN 60204 and DIN VDE 0113.

The SENTRON 3VL circuit breakers comply in addition with requirements for "disconnecter units with features for stopping and switching off in an emergency" (EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms (red-yellow) and terminal covers.

Please contact Siemens for details of other standards.

The electronic releases of the circuit breakers for motor protection also fulfill  
IEC 60947-4-1, DIN VDE 0660, Part 102.

VL160X to VL400 circuit breakers can be equipped with a SENTRON 3VL RCD module. They then comply with IEC 60947-2 Appendix B.

The SENTRON 3VL RCD module complies with IEC 61000-4-2 to IEC 61000-4-6, IEC 61000-4-11 and EN 55011, Class B (equivalent to CISPR 11) with regard to electromagnetic compatibility.

#### Operating conditions

The SENTRON 3VL circuit breakers are designed for operation in enclosed areas.

Suitable enclosures must be provided for operation in areas with severe ambient conditions (such as dust, caustic vapors, hazardous gases).

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### General data

#### RCD modules

The RCD module is designed for retrofitting to the circuit breaker. It can also be retrofitted by the customer.

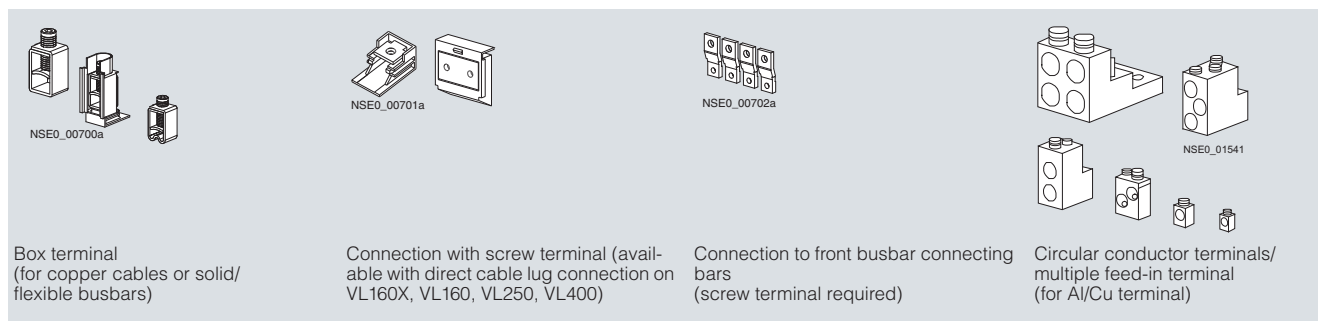
The combination of SENTRON 3VL circuit breaker and RCD module can be fed from the top or bottom.

All SENTRON 3VL circuit breakers with RCD modules are available with auxiliary switches, alarm switches, undervoltage and shunt releases.

Protection of plant and equipment against overload or damage by ground faults (ground-fault protection).

The RCD module trips the circuit breaker through vectorial summation current formation for all phase currents if the vectorial sum of the currents in the poles (= the ground fault current) overshoots the pre-set response and delay time values. AC currents and pulsating DC currents are measured (CBR, design A to EN 60947-2).

#### Main connections, basic equipment and options



#### Main connections (see below for conductor cross-sections)

Circuit breakers	Connection overview and further options				
	Box terminals	Screw terminals with metric thread for flat connectors	Circular conductor terminal/multiple feed-in terminals	Rear-mounting terminals	Front-accessible connecting bars
VL160X	□	□	x	x	x
VL160	□	□	x	x	x
VL250	□	□	x	x	x
VL400	x	○	x <sup>2)3)</sup>	x	x
VL630	x <sup>1)</sup>	○	x <sup>2)</sup>	x	x
VL800	--	○	x <sup>2)</sup>	x	x
VL1250	--	○	x <sup>2)</sup>	x	x
VL1600	--	x	--	x	○

- Scope of supply
- Optional scope of supply
- x Available
- Not available

- <sup>1)</sup> Connecting terminal plate for flexible busbar; not for 690 V AC/600 V DC.
- <sup>2)</sup> Multiple feed-in terminal
- <sup>3)</sup> Circular conductor terminal also available.

#### Conductor cross-sections

Type		VL160X 3VL1	VL160 3VL2	VL250 3VL3	VL400 3VL4	VL630 3VL5	VL800 3VL6	VL1250 3VL7	VL1600 3VL8
<b>Conductor cross-sections</b>									
Box terminals <sup>1)</sup>									
• Solid or stranded cable • Finely stranded with end sleeve • Flexible busbar	Copper only	mm <sup>2</sup>	2.5 ... 95	2.5 ... 95	25 ... 185	50 ... 300	--	--	--
		mm <sup>2</sup>	2.5 ... 50	2.5 ... 50	25 ... 120	50 ... 240	--	--	--
		mm	12 × 10	12 × 10	17 × 10	25 × 10	--	--	--
Connecting terminal plate for flexible busbar <sup>2)</sup>									
		mm	--	--	--	2 units 10 × 32	--	--	--
Circular conductor terminal for cable <sup>1)</sup>									
• Solid or stranded cable • Finely stranded with end sleeve	Cu or Al	mm <sup>2</sup>	16 ... 70	16 ... 70	25 ... 185	50 ... 300	--	--	--
		mm <sup>2</sup>	10 ... 50	10 ... 50	25 ... 120	50 ... 240	--	--	--
Multiple feed-in terminal <sup>1)</sup>									
• Solid or stranded cable • Finely stranded with end sleeve	Cu or Al	mm <sup>2</sup>	--	--	--	2 units 50 ... 120	2 units 50 ... 240	3 units 50 ... 240	4 units 50 ... 240
		mm <sup>2</sup>	--	--	--	2 units 50 ... 95	2 units 50 ... 185	3 units 50 ... 185	4 units 50 ... 185
• Direct connection of busbars • Screw for connection with screw terminal	Cu or Al	mm	17 × 7	22 × 7	24 × 7	32 × 10	40 × 10	2 × 40 × 10	2 × 50 × 10
		M6	M6	M8	M8	M6	M8	M8	--
<b>Conductor cross-sections for control circuits with terminal connection</b>									
Screw terminals									
• Solid • Finely stranded with end sleeve		mm <sup>2</sup>	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5	0.75 ... 1.5
		mm <sup>2</sup>	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0	0.75 ... 1.0

<sup>1)</sup> Cross-sections according to IEC 60999.

<sup>2)</sup> Not for 690 V AC/600 V DC.



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### General data

#### VL160 to VL1600 electronic releases – Functional overview

Order No. supplement	Releases	System protection	System/generator protection	Motor/generator protection	Starter protection	Isolators	Function	Setting options					
								L	S <sup>1)</sup>		I <sup>1)</sup>	G	
								Overload protection $I_r = \times I_n$	Short-circuit protection (short-time delayed) $I_{sd} = \times I_r$	$t_{sd}$ [s]	Short-circuit protection (instantaneous) $I_1 = \times I_n$	Ground-fault protection $I_g = \times I_n$ $t_g$ [s]	
DK	M	--	--	--	✓	--	I	--	--	--	7 ... 15	--	--
DE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--
EE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--
DA	TM <sup>2)</sup>	✓	--	--	--	--	LI	1	--	--	9 ... 18 <sup>4)</sup>	--	--
DD	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	9 ... 18 <sup>4)</sup>	--	--
DC	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--
EH	TM <sup>2)</sup>	✓	--	--	--	--	LI	1	--	--	9 ... 18 <sup>4)</sup>	--	--
EJ	TM <sup>2)</sup>	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--
EA	TM <sup>2)</sup>	✓	--	--	--	--	LIN	1	--	--	9 ... 18 <sup>4)</sup>	--	--
EC	TM <sup>2)</sup>	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--
EM	TM <sup>2)</sup>	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--
SP	ETU10M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
MP	ETU10M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
SB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
MB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
TA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--
NA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--
TB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
NB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
SL	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
ML	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
SF	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
MF	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
TN	ETU12	✓	--	--	--	--	LING	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
NN	ETU12	✓	--	--	--	--	LING	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
SE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
ME	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
TE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
NE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
TF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
NF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
SG	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
MG	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
SH	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
MH	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
TH	ETU22	--	✓	--	--	--	LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
NH	ETU22	--	✓	--	--	--	LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
SS	ETU30M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
MS	ETU30M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
CP	LCD ETU40M <sup>3)</sup>	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
CH	LCD ETU40	--	✓	--	--	--	LI, LS, LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--
CJ	LCD ETU40	--	✓	--	--	--	LI, LSI, LIN, LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--
CL	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5
CM	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5
CN	LCD ETU42	--	✓	--	--	--	LSIG, LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5

1) Size dependent.

2) TM up to  $I_n = 630$  A.3) Motor protection up to  $I_n = 500$  A.

4) Non-adjustable.



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

General data

Order No. supplement	Releases	Thermal image	Phase failure	Communication-capable	Ground-fault protection	Number of poles	N pole protected <sup>1)</sup>	$I^2t$ (ON/OFF)	Trip class ( $t_c$ )	Time-lag class ( $I_R$ )	Thermo-magnetic releases	Magnetic releases	Electronic releases	LCD display
DK	M	--	--	--	--	3	--	--	--	--	--	✓	--	--
DE	M	--	--	--	--	3	--	--	--	--	--	✓	--	--
EE	M	--	--	--	--	4	--	--	--	--	--	✓	--	--
DA	TM <sup>2)</sup>	✓	--	--	--	3	--	--	--	--	✓	--	--	--
DD	TM <sup>2)</sup>	✓	--	--	--	3	--	--	--	--	✓	--	--	--
DC	TM <sup>2)</sup>	✓	--	--	--	3	--	--	--	--	✓	--	--	--
EH	TM <sup>2)</sup>	✓	--	--	--	4	--	--	--	--	✓	--	--	--
EJ	TM <sup>2)</sup>	✓	--	--	--	4	--	--	--	--	✓	--	--	--
EA	TM <sup>2)</sup>	✓	--	--	--	4	100 %	--	--	--	✓	--	--	--
EC	TM <sup>2)</sup>	✓	--	--	--	4	60 %	--	--	--	✓	--	--	--
EM	TM <sup>2)</sup>	✓	--	--	--	4	100 %	--	--	--	✓	--	--	--
SP	ETU10M <sup>3)</sup>	✓	40 % $I_R$	--	--	3	--	--	10	--	--	--	✓	--
MP	ETU10M <sup>3)</sup>	✓	40 % $I_R$	✓ <sup>4)</sup>	--	3	--	--	10	--	--	--	✓	--
SB	ETU10	✓	--	--	--	3	--	--	--	2.5 ... 30	--	--	✓	--
MB	ETU10	✓	--	✓ <sup>4)</sup>	--	3	--	--	--	2.5 ... 30	--	--	✓	--
TA	ETU10	✓	--	--	--	4	50/100 %	--	--	2.5 ... 30	--	--	✓	--
NA	ETU10	✓	--	✓ <sup>4)</sup>	--	4	50/100 %	--	--	2.5 ... 30	--	--	✓	--
TB	ETU10	✓	--	--	--	4	--	--	--	2.5 ... 30	--	--	✓	--
NB	ETU10	✓	--	✓ <sup>4)</sup>	--	4	--	--	--	2.5 ... 30	--	--	✓	--
SL	ETU12	✓	--	--	①	3	--	✓	--	2.5 ... 30	--	--	✓	--
ML	ETU12	✓	--	✓ <sup>4)</sup>	①	3	--	✓	--	2.5 ... 30	--	--	✓	--
SF	ETU12	✓	--	--	②	3	--	✓	--	2.5 ... 30	--	--	✓	--
MF	ETU12	✓	--	✓ <sup>4)</sup>	②	3	--	✓	--	2.5 ... 30	--	--	✓	--
TN	ETU12	✓	--	--	②	4	50/100 %	✓	--	2.5 ... 30	--	--	✓	--
NN	ETU12	✓	--	✓ <sup>4)</sup>	②	4	50/100 %	✓	--	2.5 ... 30	--	--	✓	--
SE	ETU20	✓	--	--	--	3	--	✓	--	--	--	--	✓	--
ME	ETU20	✓	--	✓ <sup>4)</sup>	--	3	--	✓	--	--	--	--	✓	--
TE	ETU20	✓	--	--	--	4	--	✓	--	--	--	--	✓	--
NE	ETU20	✓	--	✓ <sup>4)</sup>	--	4	--	✓	--	--	--	--	✓	--
TF	ETU20	✓	--	--	--	4	50/100 %	✓	--	--	--	--	✓	--
NF	ETU20	✓	--	✓ <sup>4)</sup>	--	4	50/100 %	✓	--	--	--	--	✓	--
SG	ETU22	✓	--	--	①	3	--	✓	--	--	--	--	✓	--
MG	ETU22	✓	--	✓ <sup>4)</sup>	①	3	--	✓	--	--	--	--	✓	--
SH	ETU22	✓	--	--	②	3	--	✓	--	--	--	--	✓	--
MH	ETU22	✓	--	✓ <sup>4)</sup>	②	3	--	✓	--	--	--	--	✓	--
TH	ETU22	✓	--	--	②	4	50/100 %	✓	--	--	--	--	✓	--
NH	ETU22	✓	--	✓ <sup>4)</sup>	②	4	50/100 %	✓	--	--	--	--	✓	--
SS	ETU30M <sup>3)</sup>	✓	40 % $I_R$	--	--	3	--	--	10, 20, 30	--	--	--	✓	--
MS	ETU30M <sup>3)</sup>	✓	40 % $I_R$	✓ <sup>4)</sup>	--	3	--	--	10, 20, 30	--	--	--	✓	--
CP	LCD ETU40M <sup>3)</sup>	✓	5 ... 50 % $I_R$	✓	--	3	--	--	5, 10, 15, 20, 30	--	--	--	✓	✓
CH	LCD ETU40	✓	--	✓	--	3	--	✓	--	2.5 ... 30	--	--	✓	✓
CJ	LCD ETU40	✓	--	✓	--	4	50 ... 100 %, OFF	✓	--	2.5 ... 30	--	--	✓	✓
CL	LCD ETU42	✓	--	✓	①	3	--	✓	--	2.5 ... 30	--	--	✓	✓
CM	LCD ETU42	✓	--	✓	①/③	3	--	✓	--	2.5 ... 30	--	--	✓	✓
CN	LCD ETU42	✓	--	✓	②	4	50 ... 100 %, OFF	✓	--	2.5 ... 30	--	--	✓	✓

**Ground-fault protection**

- ① Vectorial summation current (3-conductor system)  
 ② Vectorial summation current (4-conductor system)  
 ③ Direct detection of ground-fault current in the neutral point of the transformer

- 1) Size dependent.  
 2) TM up to  $I_n = 630$  A.  
 3) Motor protection up to  $I_n = 500$  A.  
 4) With COM20/COM21.

# SENTRON 3VL Molded Case Circuit Breakers

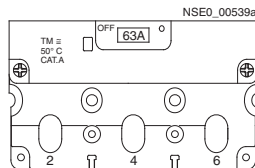
## 3VL Molded Case Circuit Breakers up to 1600 A

### 3-pole

#### Selection and ordering data

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT **	$I_{CU}$ up to 55 kA at 415 V, standard switching capacity N See "Overview".						
	A	A	A			Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
						Order No. supplement required, see page 16/56					kg

#### 3-pole, fixed-mounted, for system protection, 16 A to 160 A, thermal-magnetic releases LI



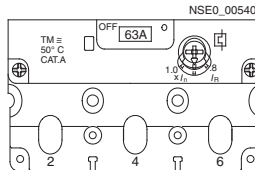
#### System protection, TM, LI function

With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases

Type	$I_n$	$I_R$	$I_i$	DT	Order No.	Basic price per PU	PU	PS*	PG	Weight per PU
VL160X/3VL1	16	16	300	B	3VL17 96-1DA3□-....		1	1 unit	113	1.900
	20	20	300	B	3VL17 02-1DA3□-....		1	1 unit	113	1.900
	25	25	300	B	3VL17 25-1DA3□-....		1	1 unit	113	2.000
	32	32	300	B	3VL17 03-1DA3□-....		1	1 unit	113	2.000
	40	40	600	B	3VL17 04-1DA3□-....		1	1 unit	113	2.000
	50	50	600	B	3VL17 05-1DA3□-....		1	1 unit	113	2.000
	63	63	600	B	3VL17 06-1DA3□-....		1	1 unit	113	2.000
	80	80	1000	B	3VL17 08-1DA3□-....		1	1 unit	113	2.000
	100	100	1000	B	3VL17 10-1DA3□-....		1	1 unit	113	2.000
	125	125	1000	B	3VL17 12-1DA3□-....		1	1 unit	113	2.000
	160	160	1500	B	3VL17 16-1DA3□-....		1	1 unit	113	2.000

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**



#### System protection, TM, LI function

With adjustable thermal overcurrent releases, non-adjustable short-circuit releases

Type	$I_n$	$I_R$	$I_i$	DT	Order No.	Basic price per PU	PU	PS*	PG	Weight per PU
VL160X/3VL1	20	16 ... 20	300	B	3VL17 02-1DD3□-....		1	1 unit	113	1.900
	32	25 ... 32	300	B	3VL17 03-1DD3□-....		1	1 unit	113	2.000
	40	32 ... 40	600	B	3VL17 04-1DD3□-....		1	1 unit	113	2.000
	50	40 ... 50	600	B	3VL17 05-1DD3□-....		1	1 unit	113	2.000
	63	50 ... 63	600	B	3VL17 06-1DD3□-....		1	1 unit	113	2.000
	80	63 ... 80	1000	B	3VL17 08-1DD3□-....		1	1 unit	113	2.000
	100	80 ... 100	1000	B	3VL17 10-1DD3□-....		1	1 unit	113	2.000
	125	100 ... 125	1000	B	3VL17 12-1DD3□-....		1	1 unit	113	2.000
	160	125 ... 160	1500	B	3VL17 16-1DD3□-....		1	1 unit	113	2.000

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

\*\* Delivery time class A for Order No. supplement "0AA0", see page 16/56.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT **	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						(H)	DT **	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L						(L)
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg			Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
	Order No. supplement required, see page 16/56								Order No. supplement required, see page 16/56						

B	3VL17 96-2DA3□-....		1	1 unit	113	1.900	
B	3VL17 02-2DA3□-....		1	1 unit	113	1.900	
B	3VL17 25-2DA3□-....		1	1 unit	113	2.000	
B	3VL17 03-2DA3□-....		1	1 unit	113	2.000	
B	3VL17 04-2DA3□-....		1	1 unit	113	2.000	
B	3VL17 05-2DA3□-....		1	1 unit	113	2.000	
B	3VL17 06-2DA3□-....		1	1 unit	113	2.000	
B	3VL17 08-2DA3□-....		1	1 unit	113	2.000	
B	3VL17 10-2DA3□-....		1	1 unit	113	2.000	
B	3VL17 12-2DA3□-....		1	1 unit	113	2.000	
B	3VL17 16-2DA3□-....		1	1 unit	113	2.000	

3  
6

B	3VL17 02-2DD3□-....		1	1 unit	113	1.900	
B	3VL17 03-2DD3□-....		1	1 unit	113	2.000	
B	3VL17 04-2DD3□-....		1	1 unit	113	2.000	
B	3VL17 05-2DD3□-....		1	1 unit	113	2.000	
B	3VL17 06-2DD3□-....		1	1 unit	113	2.000	
B	3VL17 08-2DD3□-....		1	1 unit	113	2.000	
B	3VL17 10-2DD3□-....		1	1 unit	113	2.000	
B	3VL17 12-2DD3□-....		1	1 unit	113	2.000	
B	3VL17 16-2DD3□-....		1	1 unit	113	2.000	

3  
6

\*\* Delivery time class A for Order No. supplement "0AA0", see page 16/56.

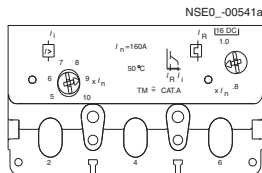
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N See "Overview".						
	A	A	A			Order No.	For basic price per PU/price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg

### 3-pole, fixed-mounted, for system protection, 50 A to 630 A, thermal-magnetic releases LI



#### System protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases

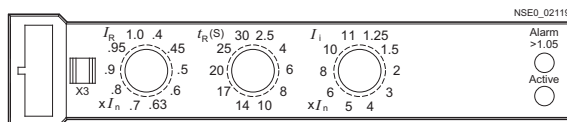
VL160/3VL2	50	40 ... 50	300 ... 600	B	3VL27 05-1DC3□-....	1	1 unit	113	2.200
	63	50 ... 63	300 ... 600	B	3VL27 06-1DC3□-....	1	1 unit	113	2.200
	80	63 ... 80	400 ... 800	B	3VL27 08-1DC3□-....	1	1 unit	113	2.200
	100	80 ... 100	500 ... 1000	B	3VL27 10-1DC3□-....	1	1 unit	113	2.200
	125	100 ... 125	625 ... 1250	B	3VL27 12-1DC3□-....	1	1 unit	113	2.200
	160	125 ... 160	800 ... 1600	B	3VL27 16-1DC3□-....	1	1 unit	113	2.200
VL250/3VL3	200	160 ... 200	1000 ... 2000	B	3VL37 20-1DC3□-....	1	1 unit	113	2.300
	250	200 ... 250	1250 ... 2500	B	3VL37 25-1DC3□-....	1	1 unit	113	2.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

VL400/3VL4	200	160 ... 200	1000 ... 2000	B	3VL47 20-1DC36-....	1	1 unit	113	5.700
	250	200 ... 250	1250 ... 2500	B	3VL47 25-1DC36-....	1	1 unit	113	5.700
	315	250 ... 315	1575 ... 3150	B	3VL47 31-1DC36-....	1	1 unit	113	5.700
	400	320 ... 400	2000 ... 4000	B	3VL47 40-1DC36-....	1	1 unit	113	5.700
VL630/3VL5	315	250 ... 315	1575 ... 3150	B	3VL57 31-1DC36-....	1	1 unit	113	9.000
	400	320 ... 400	2000 ... 4000	B	3VL57 40-1DC36-....	1	1 unit	113	9.000
	500	400 ... 500	2500 ... 5000	B	3VL57 50-1DC36-....	1	1 unit	113	9.000
	630	500 ... 630	3150 ... 6300	B	3VL57 63-1DC36-....	1	1 unit	113	9.000

### 3-pole, fixed-mounted, for system protection, 63 A to 1600 A, electronic releases LI



#### ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases

VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	B	3VL27 06-1□□3□-....	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... 11 × $I_n$	B	3VL27 10-1□□3□-....	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... 11 × $I_n$	B	3VL27 16-1□□3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	B	3VL37 20-1□□3□-....	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... 11 × $I_n$	B	3VL37 25-1□□3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal **6**

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	B	3VL47 31-1□□36-....	1	1 unit	113	5.900
	400	160 ... 400	1.25 ... 11 × $I_n$	B	3VL47 40-1□□36-....	1	1 unit	113	5.900
VL630/3VL5	630	525 ... 630	1.25 ... 10 × $I_n$	B	3VL57 63-1□□36-....	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	B	3VL67 80-1□□36-....	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	B	3VL77 10-1□□36-....	1	1 unit	113	25.000
	1250	500 ... 1250	1.25 ... 11 × $I_n$	B	3VL77 12-1□□36-....	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	B	3VL87 16-1□□30-....	1	1 unit	113	31.300

- Without communication preparation **SB**
- With communication preparation **MB**

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H <span style="float:right">(H)</span>						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L <span style="float:right">(L)</span>					
	Order No.	For basic price per PU/price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		Order No.	For basic price per PU/price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg

B	3VL27 05-2DC3□-....		1	1 unit	113	2.200	B	3VL27 05-3DC3□-....		1	1 unit	113	2.200
B	3VL27 06-2DC3□-....		1	1 unit	113	2.200	B	3VL27 06-3DC3□-....		1	1 unit	113	2.200
B	3VL27 08-2DC3□-....		1	1 unit	113	2.200	B	3VL27 08-3DC3□-....		1	1 unit	113	2.200
B	3VL27 10-2DC3□-....		1	1 unit	113	2.200	B	3VL27 10-3DC3□-....		1	1 unit	113	2.200
B	3VL27 12-2DC3□-....		1	1 unit	113	2.200	B	3VL27 12-3DC3□-....		1	1 unit	113	2.200
B	3VL27 16-2DC3□-....		1	1 unit	113	2.200	B	3VL27 16-3DC3□-....		1	1 unit	113	2.200
B	3VL37 20-2DC3□-....		1	1 unit	113	2.300	B	3VL37 20-3DC3□-....		1	1 unit	113	2.300
B	3VL37 25-2DC3□-....		1	1 unit	113	2.300	B	3VL37 25-3DC3□-....		1	1 unit	113	2.300

3  
6

3  
6

B	3VL47 20-2DC36-....		1	1 unit	113	5.700	B	3VL47 20-3DC36-....		1	1 unit	113	5.700
B	3VL47 25-2DC36-....		1	1 unit	113	5.700	B	3VL47 25-3DC36-....		1	1 unit	113	5.700
B	3VL47 31-2DC36-....		1	1 unit	113	5.700	B	3VL47 31-3DC36-....		1	1 unit	113	5.700
B	3VL47 40-2DC36-....		1	1 unit	113	5.700	B	3VL47 40-3DC36-....		1	1 unit	113	5.700
B	3VL57 31-2DC36-....		1	1 unit	113	9.000	B	3VL57 31-3DC36-....		1	1 unit	113	9.000
B	3VL57 40-2DC36-....		1	1 unit	113	9.000	B	3VL57 40-3DC36-....		1	1 unit	113	9.000
B	3VL57 50-2DC36-....		1	1 unit	113	9.000	B	3VL57 50-3DC36-....		1	1 unit	113	9.000
B	3VL57 63-2DC36-....		1	1 unit	113	9.000	B	3VL57 63-3DC36-....		1	1 unit	113	9.000

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B	3VL27 06-2□□3□-....		1	1 unit	113	2.400	B	3VL27 06-3□□3□-....		1	1 unit	113	2.400
B	3VL27 10-2□□3□-....		1	1 unit	113	2.400	B	3VL27 10-3□□3□-....		1	1 unit	113	2.400
B	3VL27 16-2□□3□-....		1	1 unit	113	2.400	B	3VL27 16-3□□3□-....		1	1 unit	113	2.400
B	3VL37 20-2□□3□-....		1	1 unit	113	2.500	B	3VL37 20-3□□3□-....		1	1 unit	113	2.500
B	3VL37 25-2□□3□-....		1	1 unit	113	2.500	B	3VL37 25-3□□3□-....		1	1 unit	113	2.500

3  
6

3  
6

B	3VL47 31-2□□36-....		1	1 unit	113	5.900	B	3VL47 31-3□□36-....		1	1 unit	113	5.900
B	3VL47 40-2□□36-....		1	1 unit	113	5.900	B	3VL47 40-3□□36-....		1	1 unit	113	5.900
B	3VL57 63-2□□36-....		1	1 unit	113	9.300	B	3VL57 63-3□□36-....		1	1 unit	113	9.300
B	3VL67 80-2□□36-....		1	1 unit	113	16.000	B	3VL67 80-3□□36-....		1	1 unit	113	16.000
B	3VL77 10-2□□36-....		1	1 unit	113	25.000	B	3VL77 10-3□□36-....		1	1 unit	113	25.000
B	3VL77 12-2□□36-....		1	1 unit	113	25.000	B	3VL77 12-3□□36-....		1	1 unit	113	25.000
B	3VL87 16-2□□30-....		1	1 unit	113	31.300	B	3VL87 16-3□□30-....		1	1 unit	113	31.300

SB  
MB

SB  
MB

\* You can order this quantity or a multiple thereof.

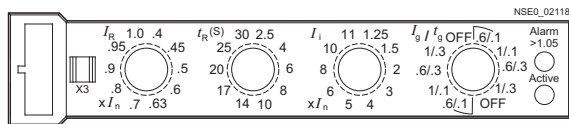
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N See "Overview".					(N)	
	A	A	A	A		Order No. Order No. supplement see page 16/56	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	kg

#### 3-pole, fixed-mounted, for system protection, 63 A to 1600 A, electronic releases LIG



#### ETU12, LIG function for 3-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current, ground fault delay  $t_g = 0.1 \dots 0.3$  s, ground fault function (G) can be switched off.

Model	Rated current $I_n$	Overcurrent release $I_R$	Short-circuit release $I_i$	Ground fault release $I_g$	DT	Order No.	PU	PS*	PG	Weight per PU approx.
VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL27 06-1□□3□-....	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL27 10-1□□3□-....	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL27 16-1□□3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL37 20-1□□3□-....	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL37 25-1□□3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

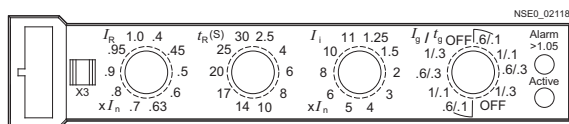
3  
6

Model	Rated current $I_n$	Overcurrent release $I_R$	Short-circuit release $I_i$	Ground fault release $I_g$	DT	Order No.	PU	PS*	PG	Weight per PU approx.
VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL47 31-1□□36-....	1	1 unit	113	5.900
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL47 40-1□□36-....	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL57 63-1□□36-....	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL67 80-1□□36-....	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL77 10-1□□36-....	1	1 unit	113	25.000
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL77 12-1□□36-....	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL87 16-1□□30-....	1	1 unit	113	31.300

- Without communication preparation
- With communication preparation

SL  
ML

#### 3-pole, fixed-mounted, for system protection, 63 A to 1600 A, electronic releases LIG



#### ETU12, LIG function for 4-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current, external current transformers required in addition, see page 16/90. Ground fault delay  $t_g = 0.1 \dots 0.3$  s, ground fault function (G) can be switched off.

Model	Rated current $I_n$	Overcurrent release $I_R$	Short-circuit release $I_i$	Ground fault release $I_g$	DT	Order No.	PU	PS*	PG	Weight per PU approx.
VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL27 06-1□□3□-....	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL27 10-1□□3□-....	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL27 16-1□□3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL37 20-1□□3□-....	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL37 25-1□□3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

Model	Rated current $I_n$	Overcurrent release $I_R$	Short-circuit release $I_i$	Ground fault release $I_g$	DT	Order No.	PU	PS*	PG	Weight per PU approx.
VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL47 31-1□□36-....	1	1 unit	113	5.900
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL47 40-1□□36-....	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL57 63-1□□36-....	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL67 80-1□□36-....	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL77 10-1□□36-....	1	1 unit	113	25.000
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL77 12-1□□36-....	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$	OFF B	3VL87 16-1□□30-....	1	1 unit	113	31.300

- Without communication preparation
- With communication preparation

SF  
MF

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H <span style="float:right">(H)</span>						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L <span style="float:right">(L)</span>					
	Order No.	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		Order No.	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	Order No. supplement required, see page 16/56							Order No. supplement required, see page 16/56					

B	3VL27 06-2□□3□-....		1	1 unit	113	2.400	B	3VL27 06-3□□3□-....		1	1 unit	113	2.400
B	3VL27 10-2□□3□-....		1	1 unit	113	2.400	B	3VL27 10-3□□3□-....		1	1 unit	113	2.400
B	3VL27 16-2□□3□-....		1	1 unit	113	2.400	B	3VL27 16-3□□3□-....		1	1 unit	113	2.400
B	3VL37 20-2□□3□-....		1	1 unit	113	2.500	B	3VL37 20-3□□3□-....		1	1 unit	113	2.500
B	3VL37 25-2□□3□-....		1	1 unit	113	2.500	B	3VL37 25-3□□3□-....		1	1 unit	113	2.500

3  
6

3  
6

B	3VL47 31-2□□36-....		1	1 unit	113	5.900	B	3VL47 31-3□□36-....		1	1 unit	113	5.900
B	3VL47 40-2□□36-....		1	1 unit	113	5.900	B	3VL47 40-3□□36-....		1	1 unit	113	5.900
B	3VL57 63-2□□36-....		1	1 unit	113	9.300	B	3VL57 63-3□□36-....		1	1 unit	113	9.300
B	3VL67 80-2□□36-....		1	1 unit	113	16.000	B	3VL67 80-3□□36-....		1	1 unit	113	16.000
B	3VL77 10-2□□36-....		1	1 unit	113	25.000	B	3VL77 10-3□□36-....		1	1 unit	113	25.000
B	3VL77 12-2□□36-....		1	1 unit	113	25.000	B	3VL77 12-3□□36-....		1	1 unit	113	25.000
B	3VL87 16-2□□30-....		1	1 unit	113	31.300	B	3VL87 16-3□□30-....		1	1 unit	113	31.300

SL  
ML

SL  
ML

B	3VL27 06-2□□3□-....		1	1 unit	113	2.400	B	3VL27 06-3□□3□-....		1	1 unit	113	2.400
B	3VL27 10-2□□3□-....		1	1 unit	113	2.400	B	3VL27 10-3□□3□-....		1	1 unit	113	2.400
B	3VL27 16-2□□3□-....		1	1 unit	113	2.400	B	3VL27 16-3□□3□-....		1	1 unit	113	2.400
B	3VL37 20-2□□3□-....		1	1 unit	113	2.500	B	3VL37 20-3□□3□-....		1	1 unit	113	2.500
B	3VL37 25-2□□3□-....		1	1 unit	113	2.500	B	3VL37 25-3□□3□-....		1	1 unit	113	2.500

3  
6

3  
6

B	3VL47 31-2□□36-....		1	1 unit	113	5.900	B	3VL47 31-3□□36-....		1	1 unit	113	5.900
B	3VL47 40-2□□36-....		1	1 unit	113	5.900	B	3VL47 40-3□□36-....		1	1 unit	113	5.900
B	3VL57 63-2□□36-....		1	1 unit	113	9.300	B	3VL57 63-3□□36-....		1	1 unit	113	9.300
B	3VL67 80-2□□36-....		1	1 unit	113	16.000	B	3VL67 80-3□□36-....		1	1 unit	113	16.000
B	3VL77 10-2□□36-....		1	1 unit	113	25.000	B	3VL77 10-3□□36-....		1	1 unit	113	25.000
B	3VL77 12-2□□36-....		1	1 unit	113	25.000	B	3VL77 12-3□□36-....		1	1 unit	113	25.000
B	3VL87 16-2□□30-....		1	1 unit	113	31.300	B	3VL87 16-3□□30-....		1	1 unit	113	31.300

SF  
MF

SF  
MF

Communication:  
• For accessories see page 16/98.

• For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

\* You can order this quantity or a multiple thereof.



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

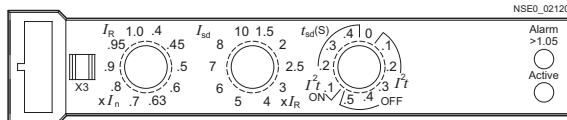
### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"	(N)				
	A	A	A	A		Order No.	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
						Order No. supplement required, see page 16/56					

### 3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LSI



NSEO\_00692



NSEO\_02120

#### ETU20, LSI function for time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, short-circuit delay ( $t_{sd} = 0$  to 0.5 s)

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
VL160/3VL2	63	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL27 06-1□□3□-....	1	1 unit	113	2.400
	100	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL27 10-1□□3□-....	1	1 unit	113	2.400
	160	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL27 16-1□□3□-....	1	1 unit	113	2.400
VL250/3VL3	200	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL37 20-1□□3□-....	1	1 unit	113	2.500
	250	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL37 25-1□□3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal **6**

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
VL400/3VL4	315	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL47 31-1□□36-....	1	1 unit	113	5.900
	400	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL47 40-1□□36-....	1	1 unit	113	5.900
VL630/3VL5	630	0.4 ... 1.0 × $I_n$	10 × $I_n$	1.5 ... 9 × $I_R$	B	3VL57 63-1□□36-....	1	1 unit	113	9.300
VL800/3VL6	800	0.4 ... 1.0 × $I_n$	8 × $I_n$	1.5 ... 7 × $I_R$	B	3VL67 80-1□□36-....	1	1 unit	113	16.000
VL1250/3VL7	1000	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL77 10-1□□36-....	1	1 unit	113	25.000
	1250	0.4 ... 1.0 × $I_n$	11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL77 12-1□□36-....	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	0.4 ... 1.0 × $I_n$	9 × $I_n$	1.5 ... 8 × $I_R$	B	3VL87 16-1□□30-....	1	1 unit	113	31.300

- Without communication preparation **SE**
- With communication preparation **ME**

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L					
	Order No. Order No. supplement required, see page 16/56	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg		Order No. Order No. supplement required, see page 16/56	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg

B	3VL27 06-2□□3□-....		1	1 unit	113	2.400	B	3VL27 06-3□□3□-....		1	1 unit	113	2.400
B	3VL27 10-2□□3□-....		1	1 unit	113	2.400	B	3VL27 10-3□□3□-....		1	1 unit	113	2.400
B	3VL27 16-2□□3□-....		1	1 unit	113	2.400	B	3VL27 16-3□□3□-....		1	1 unit	113	2.400
B	3VL37 20-2□□3□-....		1	1 unit	113	2.500	B	3VL37 20-3□□3□-....		1	1 unit	113	2.500
B	3VL37 25-2□□3□-....		1	1 unit	113	2.500	B	3VL37 25-3□□3□-....		1	1 unit	113	2.500

3  
63  
6

B	3VL47 31-2□□36-....		1	1 unit	113	5.900	B	3VL47 31-3□□36-....		1	1 unit	113	5.900
B	3VL47 40-2□□36-....		1	1 unit	113	5.900	B	3VL47 40-3□□36-....		1	1 unit	113	5.900
B	3VL57 63-2□□36-....		1	1 unit	113	9.300	B	3VL57 63-3□□36-....		1	1 unit	113	9.300
B	3VL67 80-2□□36-....		1	1 unit	113	16.000	B	3VL67 80-3□□36-....		1	1 unit	113	16.000
B	3VL77 10-2□□36-....		1	1 unit	113	25.000	B	3VL77 10-3□□36-....		1	1 unit	113	25.000
B	3VL77 12-2□□36-....		1	1 unit	113	25.000	B	3VL77 12-3□□36-....		1	1 unit	113	25.000
B	3VL87 16-2□□30-....		1	1 unit	113	31.300	B	3VL87 16-3□□30-....		1	1 unit	113	31.300

SE  
MESE  
ME

16

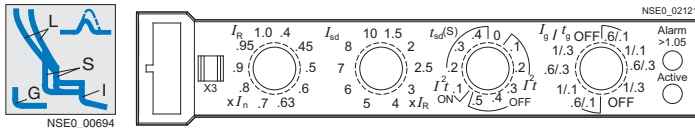
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"				(N)	
	A	A	A	A	A		Order No.	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
							Order No. supplement required, see page 16/56					kg

### 3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LSIG



#### ETU22, LSIG function for 3-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, ground fault delay  $t_g = 0.1 \dots 0.3$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s, ground fault protection (G) can be switched off

VL160/3VL2	63	25 ... 63	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL27 06-1□□3□-....</b>	1	1 unit	113	2.400
	100	40 ... 100	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL27 10-1□□3□-....</b>	1	1 unit	113	2.400
	160	64 ... 160	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL27 16-1□□3□-....</b>	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL37 20-1□□3□-....</b>	1	1 unit	113	2.500
	250	100 ... 250	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL37 25-1□□3□-....</b>	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

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VL400/3VL4	315	128 ... 315	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL47 31-1□□36-....</b>	1	1 unit	113	5.900
	400	160 ... 400	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL47 40-1□□36-....</b>	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	1.5 ... $9 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL57 63-1□□36-....</b>	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	1.5 ... $7 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL67 80-1□□36-....</b>	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL77 10-1□□36-....</b>	1	1 unit	113	25.000
	1250	500 ... 1250	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL77 12-1□□36-....</b>	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	1.5 ... $8 \times I_R$	0.6 ... $1 \times I_n$ , OFF	B	<b>3VL87 16-1□□30-....</b>	1	1 unit	113	31.300

- Without communication preparation
- With communication preparation

SG  
MG

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L					
	Order No. Order No. supplement required, see page 16/56	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg		Order No. Order No. supplement required, see page 16/56	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg

B	3VL27 06-2□□3□-....		1	1 unit	113	2.400	B	3VL27 06-3□□3□-....		1	1 unit	113	2.400
B	3VL27 10-2□□3□-....		1	1 unit	113	2.400	B	3VL27 10-3□□3□-....		1	1 unit	113	2.400
B	3VL27 16-2□□3□-....		1	1 unit	113	2.400	B	3VL27 16-3□□3□-....		1	1 unit	113	2.400
B	3VL37 20-2□□3□-....		1	1 unit	113	2.500	B	3VL37 20-3□□3□-....		1	1 unit	113	2.500
B	3VL37 25-2□□3□-....		1	1 unit	113	2.500	B	3VL37 25-3□□3□-....		1	1 unit	113	2.500

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B	3VL47 31-2□□36-....		1	1 unit	113	5.900	B	3VL47 31-3□□36-....		1	1 unit	113	5.900
B	3VL47 40-2□□36-....		1	1 unit	113	5.900	B	3VL47 40-3□□36-....		1	1 unit	113	5.900
B	3VL57 63-2□□36-....		1	1 unit	113	9.300	B	3VL57 63-3□□36-....		1	1 unit	113	9.300
B	3VL67 80-2□□36-....		1	1 unit	113	16.000	B	3VL67 80-3□□36-....		1	1 unit	113	16.000
B	3VL77 10-2□□36-....		1	1 unit	113	25.000	B	3VL77 10-3□□36-....		1	1 unit	113	25.000
B	3VL77 12-2□□36-....		1	1 unit	113	25.000	B	3VL77 12-3□□36-....		1	1 unit	113	25.000
B	3VL87 16-2□□30-....		1	1 unit	113	31.300	B	3VL87 16-3□□30-....		1	1 unit	113	31.300

SG  
MG

SG  
MG

\* You can order this quantity or a multiple thereof.

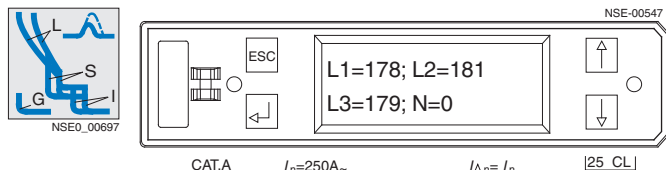
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					
	A	A	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
							Order No. supplement required, see page 16/56					kg

### 3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LSIG



#### LCD-ETU42, LSIG function for 3-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current, ground fault delay  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL27 06-1CL3□-....	1	1 unit	113	2.400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL27 10-1CL3□-....	1	1 unit	113	2.400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL27 16-1CL3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL37 20-1CL3□-....	1	1 unit	113	2.500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL37 25-1CL3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

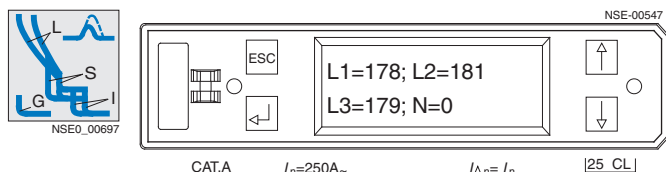
- Connection with box terminal
- Connection with screw terminal

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VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL47 31-1CL36-....	1	1 unit	113	5.900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL47 40-1CL36-....	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL57 63-1CL36-....	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL67 80-1CL36-....	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL77 10-1CL36-....	1	1 unit	113	25.000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL77 12-1CL36-....	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL87 16-1CL30-....	1	1 unit	113	31.300

- With communication preparation

CL



#### LCD-ETU42, LSIG function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases. External current transformer required in addition, see pages 16/90. Vectorial summation current, ground fault delay  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL27 06-1CM3□-....	1	1 unit	113	2.400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL27 10-1CM3□-....	1	1 unit	113	2.400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL27 16-1CM3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL37 20-1CM3□-....	1	1 unit	113	2.500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL37 25-1CM3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

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VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL47 31-1CM36-....	1	1 unit	113	5.900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL47 40-1CM36-....	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL57 63-1CM36-....	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL67 80-1CM36-....	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL77 10-1CM36-....	1	1 unit	113	25.000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL77 12-1CM36-....	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	B	3VL87 16-1CM30-....	1	1 unit	113	31.300

- With communication preparation

CM

1) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L					
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Order No. supplement required, see page 16/56					kg		Order No. supplement required, see page 16/56					kg

B	3VL27 06-2CL3□-....		1	1 unit	113	2.400	B	3VL27 06-3CL3□-....		1	1 unit	113	2.400
B	3VL27 10-2CL3□-....		1	1 unit	113	2.400	B	3VL27 10-3CL3□-....		1	1 unit	113	2.400
B	3VL27 16-2CL3□-....		1	1 unit	113	2.400	B	3VL27 16-3CL3□-....		1	1 unit	113	2.400
B	3VL37 20-2CL3□-....		1	1 unit	113	2.500	B	3VL37 20-3CL3□-....		1	1 unit	113	2.500
B	3VL37 25-2CL3□-....		1	1 unit	113	2.500	B	3VL37 25-3CL3□-....		1	1 unit	113	2.500

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B	3VL47 31-2CL36-....		1	1 unit	113	5.900	B	3VL47 31-3CL36-....		1	1 unit	113	5.900
B	3VL47 40-2CL36-....		1	1 unit	113	5.900	B	3VL47 40-3CL36-....		1	1 unit	113	5.900
B	3VL57 63-2CL36-....		1	1 unit	113	9.300	B	3VL57 63-3CL36-....		1	1 unit	113	9.300
B	3VL67 80-2CL36-....		1	1 unit	113	16.000	B	3VL67 80-3CL36-....		1	1 unit	113	16.000
B	3VL77 10-2CL36-....		1	1 unit	113	25.000	B	3VL77 10-3CL36-....		1	1 unit	113	25.000
B	3VL77 12-2CL36-....		1	1 unit	113	25.000	B	3VL77 12-3CL36-....		1	1 unit	113	25.000
B	3VL87 16-2CL30-....		1	1 unit	113	31.300	B	3VL87 16-3CL30-....		1	1 unit	113	31.300

CL

CL

B	3VL27 06-2CM3□-....		1	1 unit	113	2.400	B	3VL27 06-3CM3□-....		1	1 unit	113	2.400
B	3VL27 10-2CM3□-....		1	1 unit	113	2.400	B	3VL27 10-3CM3□-....		1	1 unit	113	2.400
B	3VL27 16-2CM3□-....		1	1 unit	113	2.400	B	3VL27 16-3CM3□-....		1	1 unit	113	2.400
B	3VL37 20-2CM3□-....		1	1 unit	113	2.500	B	3VL37 20-3CM3□-....		1	1 unit	113	2.500
B	3VL37 25-2CM3□-....		1	1 unit	113	2.500	B	3VL37 25-3CM3□-....		1	1 unit	113	2.500

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6

B	3VL47 31-2CM36-....		1	1 unit	113	5.900	B	3VL47 31-3CM36-....		1	1 unit	113	5.900
B	3VL47 40-2CM36-....		1	1 unit	113	5.900	B	3VL47 40-3CM36-....		1	1 unit	113	5.900
B	3VL57 63-2CM36-....		1	1 unit	113	9.300	B	3VL57 63-3CM36-....		1	1 unit	113	9.300
B	3VL67 80-2CM36-....		1	1 unit	113	16.000	B	3VL67 80-3CM36-....		1	1 unit	113	16.000
B	3VL77 10-2CM36-....		1	1 unit	113	25.000	B	3VL77 10-3CM36-....		1	1 unit	113	25.000
B	3VL77 12-2CM36-....		1	1 unit	113	25.000	B	3VL77 12-3CM36-....		1	1 unit	113	25.000
B	3VL87 16-2CM30-....		1	1 unit	113	31.300	B	3VL87 16-3CM30-....		1	1 unit	113	31.300

CM

CM

Communication:

- For accessories see page 16/98.

- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

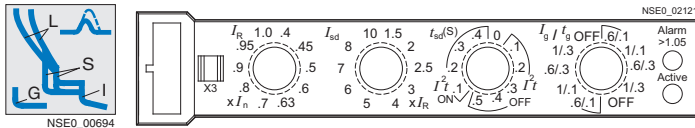
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time-delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) S	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"				(N)	
	A	A	A	A	A		Order No.	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
							Order No. supplement required, see page 16/56					kg

### 3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LSIG



#### ETU22, LSIG function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, external current transformers required in addition, see page 16/90. Ground fault delay  $t_g = 0.1 \dots 0.3$  s, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s, ground fault protection (G) can be switched off

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL27 06-1□□3□-....	1	1 unit	113	2.400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL27 10-1□□3□-....	1	1 unit	113	2.400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL27 16-1□□3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL37 20-1□□3□-....	1	1 unit	113	2.500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL37 25-1□□3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL47 31-1□□36-....	1	1 unit	113	5.900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL47 40-1□□36-....	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL57 63-1□□36-....	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL67 80-1□□36-....	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL77 10-1□□36-....	1	1 unit	113	25.000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL77 12-1□□36-....	1	1 unit	113	25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$ , OFF	B	3VL87 16-1□□30-....	1	1 unit	113	31.300

- Without communication preparation
- With communication preparation

SH  
MH

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L						(L)
	Order No. Order No. supplement required, see page 16/56	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg		Order No. Order No. supplement required, see page 16/56	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg		

B	3VL27 06-2□□3□-....		1	1 unit	113	2.400	B	3VL27 06-3□□3□-....		1	1 unit	113	2.400
B	3VL27 10-2□□3□-....		1	1 unit	113	2.400	B	3VL27 10-3□□3□-....		1	1 unit	113	2.400
B	3VL27 16-2□□3□-....		1	1 unit	113	2.400	B	3VL27 16-3□□3□-....		1	1 unit	113	2.400
B	3VL37 20-2□□3□-....		1	1 unit	113	2.500	B	3VL37 20-3□□3□-....		1	1 unit	113	2.500
B	3VL37 25-2□□3□-....		1	1 unit	113	2.500	B	3VL37 25-3□□3□-....		1	1 unit	113	2.500

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6

B	3VL47 31-2□□36-....		1	1 unit	113	5.900	B	3VL47 31-3□□36-....		1	1 unit	113	5.900
B	3VL47 40-2□□36-....		1	1 unit	113	5.900	B	3VL47 40-3□□36-....		1	1 unit	113	5.900
B	3VL57 63-2□□36-....		1	1 unit	113	9.300	B	3VL57 63-3□□36-....		1	1 unit	113	9.300
B	3VL67 80-2□□36-....		1	1 unit	113	16.000	B	3VL67 80-3□□36-....		1	1 unit	113	16.000
B	3VL77 10-2□□36-....		1	1 unit	113	25.000	B	3VL77 10-3□□36-....		1	1 unit	113	25.000
B	3VL77 12-2□□36-....		1	1 unit	113	25.000	B	3VL77 12-3□□36-....		1	1 unit	113	25.000
B	3VL87 16-2□□30-....		1	1 unit	113	31.300	B	3VL87 16-3□□30-....		1	1 unit	113	31.300

SH  
MH

SH  
MH

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

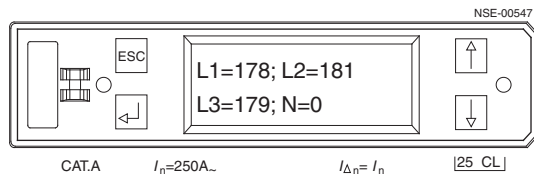
### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					
	A	A	A	A		Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg

### 3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LI, LS, LSI



NSE0\_00696



NSE-00547

#### LCD-ETU40, LI/LS/LSI function selectable

With adjustable overcurrent releases, adjustable short-circuit releases, short-circuit delay ( $t_{sd} = 0$  to 0.5 s)

VL160/3VL2	63 100 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$ B 1.5 ... 10 × $I_R$ B 1.5 ... 10 × $I_R$ B	<b>3VL27 06-1CH3</b> □-.... <b>3VL27 10-1CH3</b> □-.... <b>3VL27 16-1CH3</b> □-....	1 1 1	1 unit 1 unit 1 unit	113 113 113	2.400 2.400 2.400
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$ B 1.5 ... 10 × $I_R$ B	<b>3VL37 20-1CH3</b> □-.... <b>3VL37 25-1CH3</b> □-....	1 1	1 unit 1 unit	113 113	2.500 2.500
VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$ B 1.5 ... 10 × $I_R$ B	<b>3VL47 31-1CH36</b> -.... <b>3VL47 40-1CH36</b> -....	1 1	1 unit 1 unit	113 113	5.900 5.900
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	1.5 ... 9 × $I_R$ B	<b>3VL57 63-1CH36</b> -....	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	1.5 ... 7 × $I_R$ B	<b>3VL67 80-1CH36</b> -....	1	1 unit	113	16.000
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... 11 × $I_n$ 1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$ B 1.5 ... 10 × $I_R$ B	<b>3VL77 10-1CH36</b> -.... <b>3VL77 12-1CH36</b> -....	1 1	1 unit 1 unit	113 113	25.000 25.000
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	1.5 ... 8 × $I_R$ B	<b>3VL87 16-1CH30</b> -....	1	1 unit	113	31.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

- With communication preparation

CH

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L						(L)
	Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg			Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg	

B	3VL27 06-2CH3□-....		1	1 unit	113	2.400	B	3VL27 06-3CH3□-....			1	1 unit	113	2.400
B	3VL27 10-2CH3□-....		1	1 unit	113	2.400	B	3VL27 10-3CH3□-....			1	1 unit	113	2.400
B	3VL27 16-2CH3□-....		1	1 unit	113	2.400	B	3VL27 16-3CH3□-....			1	1 unit	113	2.400
B	3VL37 20-2CH3□-....		1	1 unit	113	2.500	B	3VL37 20-3CH3□-....			1	1 unit	113	2.500
B	3VL37 25-2CH3□-....		1	1 unit	113	2.500	B	3VL37 25-3CH3□-....			1	1 unit	113	2.500

3  
63  
6

B	3VL47 31-2CH36-....		1	1 unit	113	5.900	B	3VL47 31-3CH36-....			1	1 unit	113	5.900
B	3VL47 40-2CH36-....		1	1 unit	113	5.900	B	3VL47 40-3CH36-....			1	1 unit	113	5.900
B	3VL57 63-2CH36-....		1	1 unit	113	9.300	B	3VL57 63-3CH36-....			1	1 unit	113	9.300
B	3VL67 80-2CH36-....		1	1 unit	113	16.000	B	3VL67 80-3CH36-....			1	1 unit	113	16.000
B	3VL77 10-2CH36-....		1	1 unit	113	25.000	B	3VL77 10-3CH36-....			1	1 unit	113	25.000
B	3VL77 12-2CH36-....		1	1 unit	113	25.000	B	3VL77 12-3CH36-....			1	1 unit	113	25.000
B	3VL87 16-2CH30-....		1	1 unit	113	31.300	B	3VL87 16-3CH30-....			1	1 unit	113	31.300

CH

CH

16

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

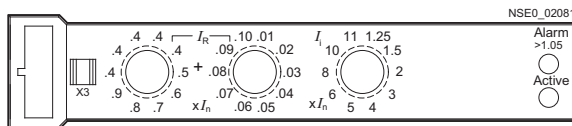
### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					(N)	
	A	A	A		Order No.	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	kg
					Order No. supplement required, see page 16/56						

### 3-pole, fixed-mounted, for motor protection - generator protection, 63 A to 500 A, electronic releases LI



NSE0\_00943



NSE0\_02081

#### ETU10M, LI function

With thermal image, with non-adjustable trip class  $t_C = 10$ , with phase failure sensitivity 40 %  $I_R$

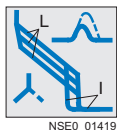
VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	B	3VL27 06-1□□3□-....	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... 11 × $I_n$	B	3VL27 10-1□□3□-....	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... 11 × $I_n$	B	3VL27 16-1□□3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	B	3VL37 20-1□□3□-....	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... 11 × $I_n$	B	3VL37 25-1□□3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

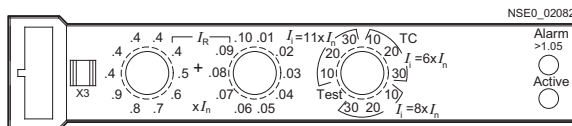
- Connection with box terminal **3**
- Connection with screw terminal **6**

VL400/3VL4	315	125 ... 315	1.25 ... 11 × $I_n$	B	3VL47 31-1□□36-....	1	1 unit	113	5.900
VL630/3VL5	500	200 ... 500	1.25 ... 12.5 × $I_n$	B	3VL57 50-1□□36-....	1	1 unit	113	9.300

- Without communication preparation **SP**
- With communication preparation **MP**



NSE0\_01419



NSE0\_02082

#### ETU30M, LI function

With thermal image, with adjustable trip class  $t_C = 10, 20, 30$ , with phase failure sensitivity 40 %  $I_R$

VL160/3VL2	63	25 ... 63	6/8/11 × $I_n$	B	3VL27 06-1□□3□-....	1	1 unit	113	2.400
	100	40 ... 100	6/8/11 × $I_n$	B	3VL27 10-1□□3□-....	1	1 unit	113	2.400
	160	64 ... 160	6/8/11 × $I_n$	B	3VL27 16-1□□3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	6/8/11 × $I_n$	B	3VL37 20-1□□3□-....	1	1 unit	113	2.500
	250	100 ... 250	6/8/11 × $I_n$	B	3VL37 25-1□□3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal **6**

VL400/3VL4	315	125 ... 315	6/8/11 × $I_n$	B	3VL47 31-1□□36-....	1	1 unit	113	5.900
VL630/3VL5	500	200 ... 500	6/8/12.5 × $I_n$	B	3VL57 50-1□□36-....	1	1 unit	113	9.300

- Without communication preparation **SS**
- With communication preparation **MS**

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L					
	Order No.	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		Order No.	For price see page 16/32	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Order No. supplement required, see page 16/56					kg		Order No. supplement required, see page 16/56					kg

B	3VL27 06-2□□3□-....		1	1 unit	113	2.400	B	3VL27 06-3□□3□-....		1	1 unit	113	2.400
B	3VL27 10-2□□3□-....		1	1 unit	113	2.400	B	3VL27 10-3□□3□-....		1	1 unit	113	2.400
B	3VL27 16-2□□3□-....		1	1 unit	113	2.400	B	3VL27 16-3□□3□-....		1	1 unit	113	2.400
B	3VL37 20-2□□3□-....		1	1 unit	113	2.500	B	3VL37 20-3□□3□-....		1	1 unit	113	2.500
B	3VL37 25-2□□3□-....		1	1 unit	113	2.500	B	3VL37 25-3□□3□-....		1	1 unit	113	2.500

3  
6

3  
6

B	3VL47 31-2□□36-....		1	1 unit	113	5.900	B	3VL47 31-3□□36-....		1	1 unit	113	5.900
B	3VL57 50-2□□36-....		1	1 unit	113	9.300	B	3VL57 50-3□□36-....		1	1 unit	113	9.300

SP  
MP

SP  
MP

B	3VL27 06-2□□3□-....		1	1 unit	113	2.400	B	3VL27 06-3□□3□-....		1	1 unit	113	2.400
B	3VL27 10-2□□3□-....		1	1 unit	113	2.400	B	3VL27 10-3□□3□-....		1	1 unit	113	2.400
B	3VL27 16-2□□3□-....		1	1 unit	113	2.400	B	3VL27 16-3□□3□-....		1	1 unit	113	2.400
B	3VL37 20-2□□3□-....		1	1 unit	113	2.500	B	3VL37 20-3□□3□-....		1	1 unit	113	2.500
B	3VL37 25-2□□3□-....		1	1 unit	113	2.500	B	3VL37 25-3□□3□-....		1	1 unit	113	2.500

3  
6

3  
6

B	3VL47 31-2□□36-....		1	1 unit	113	5.900	B	3VL47 31-3□□36-....		1	1 unit	113	5.900
B	3VL57 50-2□□36-....		1	1 unit	113	9.300	B	3VL57 50-3□□36-....		1	1 unit	113	9.300

SS  
MS

SS  
MS

16

\* You can order this quantity or a multiple thereof.

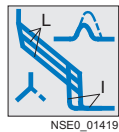
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

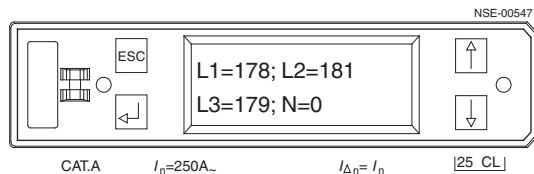
### 3-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					
	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
					Order No. supplement required, see page 16/56					kg

### 3-pole, fixed-mounted, for motor protection - generator protection, 63 A to 500 A, electronic releases LI



NSE0\_01419



NSE-00547

CAT.A

 $I_n=250A..$  $I_{\Delta n}=I_n$ 

[25 CL]

#### LCD-ETU40M, LI function

With thermal image, with adjustable trip class  $t_C = 5, 10, 15, 20, 30$ , phase failure sensitivity adjustable in steps 5 ... 50 %  $I_R$ .

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	B	3VL27 06-1CP3□-....	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	B	3VL27 10-1CP3□-....	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	B	3VL27 16-1CP3□-....	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	B	3VL37 20-1CP3□-....	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	B	3VL37 25-1CP3□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	B	3VL47 31-1CP36-....	1	1 unit	113	5.900
VL630/3VL5	500	250 ... 500	1.25 ... $11 \times I_n$	B	3VL57 50-1CP36-....	1	1 unit	113	9.300

- With communication preparation

CP

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L						(L)
	Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg		Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg		

B	3VL27 06-2CP3□-....		1	1 unit	113	2.400	B	3VL27 06-3CP3□-....		1	1 unit	113	2.400
B	3VL27 10-2CP3□-....		1	1 unit	113	2.400	B	3VL27 10-3CP3□-....		1	1 unit	113	2.400
B	3VL27 16-2CP3□-....		1	1 unit	113	2.400	B	3VL27 16-3CP3□-....		1	1 unit	113	2.400
B	3VL37 20-2CP3□-....		1	1 unit	113	2.500	B	3VL37 20-3CP3□-....		1	1 unit	113	2.500
B	3VL37 25-2CP3□-....		1	1 unit	113	2.500	B	3VL37 25-3CP3□-....		1	1 unit	113	2.500

3  
6

3  
6

B	3VL47 31-2CP36-....		1	1 unit	113	5.900	B	3VL47 31-3CP36-....		1	1 unit	113	5.900
B	3VL57 50-2CP36-....		1	1 unit	113	9.300	B	3VL57 50-3CP36-....		1	1 unit	113	9.300

CP

CP

\* You can order this quantity or a multiple thereof.



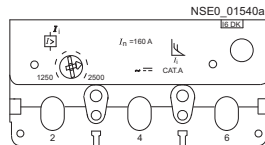
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 3-pole

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					(N)
				Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
				Order No. supplement required, see page 16/56					kg

### 3-pole, fixed-mounted, for starter protection, 63 A to 500 A, magnetic releases I



#### Starter protection, M, I function

Without overcurrent release, with adjustable short-circuit release

VL160/3VL2	63	450 ... 900	B	3VL27 06-1DK3□-....	1	1 unit	113	2.200
	100	750 ... 1500	B	3VL27 10-1DK3□-....	1	1 unit	113	2.200
	160	1250 ... 2500	B	3VL27 16-1DK3□-....	1	1 unit	113	2.200
VL250/3VL3	250	1750 ... 3500	B	3VL37 25-1DK3□-....	1	1 unit	113	2.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

VL400/3VL4	200	1250 ... 2500	B	3VL47 20-1DK36-....	1	1 unit	113	5.700
	250	2000 ... 4000	B	3VL47 25-1DK36-....	1	1 unit	113	5.700
	315	2000 ... 4000	A	3VL47 31-1DK36-....	1	1 unit	113	5.700
VL630/3VL5	315	2000 ... 4000	B	3VL57 31-1DK36-....	1	1 unit	113	9.000
	500	3250 ... 6300	B	3VL57 50-1DK36-....	1	1 unit	113	9.000

### 3-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic releases I



#### Non-automatic molded case circuit breakers<sup>1)</sup>, I function

Without overcurrent release, with non-adjustable short-circuit release (for intrinsic protection only)

VL160X/3VL1	100	1800	B	3VL17 10-1DE3□-....	1	1 unit	113	2.000
	160	1800	B	3VL17 16-1DE3□-....	1	1 unit	113	2.000
VL160/3VL2	100	2500	B	3VL27 10-1DE3□-....	1	1 unit	113	2.200
	160	2500	B	3VL27 16-1DE3□-....	1	1 unit	113	2.200
VL250/3VL3	250	3500	B	3VL37 25-1DE3□-....	1	1 unit	113	2.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

VL400/3VL4	400	4000	B	3VL47 40-1DE36-....	1	1 unit	113	5.700
VL630/3VL5	630	6300	B	3VL57 63-1DE36-....	1	1 unit	113	9.000
VL800/3VL6	800	6500	B	3VL67 80-1DE36-....	1	1 unit	113	15.700
VL1250/3VL7	1250	12000	B	3VL77 12-1DE36-....	1	1 unit	113	23.500
VL1600/3VL8 <sup>2)</sup>	1600	14400	B	3VL87 16-1DE30-....	1	1 unit	113	29.800

For further versions, including for short-circuit and ground-fault protection, see pages 16/12 to 16/28.

<sup>1)</sup> See also the Chapter "3K, 3KE, 3LD Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

3-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L					
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Order No. supplement required, see page 16/56					kg		Order No. supplement required, see page 16/56					kg

B	3VL27 06-2DK3□-....		1	1 unit	113	2.200	B	3VL27 06-3DK3□-....		1	1 unit	113	2.200
B	3VL27 10-2DK3□-....		1	1 unit	113	2.200	B	3VL27 10-3DK3□-....		1	1 unit	113	2.200
B	3VL27 16-2DK3□-....		1	1 unit	113	2.200	B	3VL27 16-3DK3□-....		1	1 unit	113	2.200
B	3VL37 25-2DK3□-....		1	1 unit	113	2.300	B	3VL37 25-3DK3□-....		1	1 unit	113	2.300

3  
63  
6

B	3VL47 20-2DK36-....		1	1 unit	113	5.700	B	3VL47 20-3DK36-....		1	1 unit	113	5.700
B	3VL47 25-2DK36-....		1	1 unit	113	5.700	B	3VL47 25-3DK36-....		1	1 unit	113	5.700
A	3VL47 31-2DK36-....		1	1 unit	113	5.700	A	3VL47 31-3DK36-....		1	1 unit	113	5.700
B	3VL57 31-2DK36-....		1	1 unit	113	9.000	B	3VL57 31-3DK36-....		1	1 unit	113	9.000
B	3VL57 50-2DK36-....		1	1 unit	113	9.000	B	3VL57 50-3DK36-....		1	1 unit	113	9.000

B	3VL17 10-2DE3□-....		1	1 unit	113	2.000	--						
B	3VL17 16-2DE3□-....		1	1 unit	113	2.000	--						
B	3VL27 10-2DE3□-....		1	1 unit	113	2.200	B	3VL27 10-3DE3□-....		1	1 unit	113	2.200
B	3VL27 16-2DE3□-....		1	1 unit	113	2.200	B	3VL27 16-3DE3□-....		1	1 unit	113	2.200
B	3VL37 25-2DE3□-....		1	1 unit	113	2.300	B	3VL37 25-3DE3□-....		1	1 unit	113	2.300

3  
63  
6

B	3VL47 40-2DE36-....		1	1 unit	113	5.700	B	3VL47 40-3DE36-....		1	1 unit	113	5.700
B	3VL57 63-2DE36-....		1	1 unit	113	9.000	B	3VL57 63-3DE36-....		1	1 unit	113	9.000
B	3VL67 80-2DE36-....		1	1 unit	113	15.700	B	3VL67 80-3DE36-....		1	1 unit	113	15.700
B	3VL77 12-2DE36-....		1	1 unit	113	23.500	B	3VL77 12-3DE36-....		1	1 unit	113	23.500
B	3VL87 16-2DE30-....		1	1 unit	113	29.800	B	3VL87 16-3DE30-....		1	1 unit	113	29.800

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 3-pole

Order No. supplement (for complete Order No., see pages 16/12 to 16/28) <b>3VL.7</b> ...-□□3-..... Releases	Switching capacity	Type <b>VL160</b> 3VL2	<b>VL250</b> 3VL3			<b>VL400</b> 3VL4		<b>VL630</b> 3VL5		<b>VL800</b> 3VL6		<b>VL1250</b> 3VL7		<b>VL1600</b> 3VL8	
			Rated current $I_n$												
			63 A	100 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A	1000 A	1250 A	1600 A
<b>Price</b>															
ETU10 <b>S B</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU10 <b>M B</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU12 <b>S L</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU12 <b>M L</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU12 <b>S F</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU12 <b>M F</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU20 <b>S E</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU20 <b>M E</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU22 <b>S G</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU22 <b>M G</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU42 <b>C L</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU42 <b>C M</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU22 <b>S H</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU22 <b>M H</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
ETU40 <b>C H</b>		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	
		x	x	x	x	x	x	x	--	x	x	x	x	x	






x = Additional price

-- = Not available

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

**3-pole**

Order No. supplement (for complete Order No., see pages 16/12 to 16/28) <b>3VL.7 ... □□3-....</b> Releases	Switching capacity	Type <b>VL160</b> 3VL2			Type <b>VL250</b> 3VL3		Type <b>VL400</b> 3VL4		Type <b>VL630</b> 3VL5		Type <b>VL800</b> 3VL6		Type <b>VL1250</b> 3VL7		Type <b>VL1600</b> 3VL8	
		Rated current $I_n$														
		63 A	100 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A	1000 A	1250 A	1600 A		
<b>Price</b>																
ETU10M <b>SP</b>		x	x	x	x	x	x	x	--	x	--	--	--	--	--	--
		x	x	x	x	x	x	x	--	x	--	--	--	--	--	--
		x	x	x	x	x	x	x	--	x	--	--	--	--	--	--
ETU10M <b>MP</b>		x	x	x	x	x	x	--	x	--	--	--	--	--	--	
		x	x	x	x	x	x	--	x	--	--	--	--	--	--	
		x	x	x	x	x	x	--	x	--	--	--	--	--	--	
ETU30M <b>SS</b>		x	x	x	x	x	x	--	x	--	--	--	--	--		
		x	x	x	x	x	x	--	x	--	--	--	--	--		
		x	x	x	x	x	x	--	x	--	--	--	--	--		
ETU30M <b>MS</b>		x	x	x	x	x	x	--	x	--	--	--	--	--		
		x	x	x	x	x	x	--	x	--	--	--	--	--		
		x	x	x	x	x	x	--	x	--	--	--	--	--		
ETU40M <b>CP</b>		x	x	x	x	x	x	--	x	--	--	--	--	--		
		x	x	x	x	x	x	--	x	--	--	--	--	--		
		x	x	x	x	x	x	--	x	--	--	--	--	--		

x = Additional price

-- = Not available

# SENTRON 3VL Molded Case Circuit Breakers

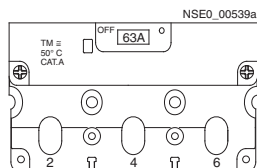
## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

### Selection and ordering data

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT **	$I_{CU}$ up to 55 kA at 415 V, standard switching capacity N See "Overview".						
	A	A	A			Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
						Order No. supplement required, see page 16/56					

### 4-pole, fixed-mounted, for system protection, 16 A to 630 A, thermal-magnetic releases LI



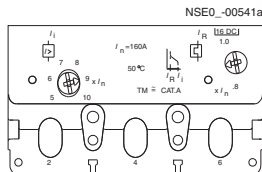
#### System protection, TM, LI function

With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, without overcurrent and short-circuit release in 4th pole (N)

VL160X/3VL1	16	16	300	B	3VL17 96-1EH4□-....	1	1 unit	113	2.300
	20	20	300	B	3VL17 02-1EH4□-....	1	1 unit	113	2.300
	25	25	300	B	3VL17 25-1EH4□-....	1	1 unit	113	2.500
	32	32	300	B	3VL17 03-1EH4□-....	1	1 unit	113	2.500
	40	40	600	B	3VL17 04-1EH4□-....	1	1 unit	113	2.500
	50	50	600	B	3VL17 05-1EH4□-....	1	1 unit	113	2.500
	63	63	600	B	3VL17 06-1EH4□-....	1	1 unit	113	2.500
	80	80	1000	B	3VL17 08-1EH4□-....	1	1 unit	113	2.500
	100	100	1000	B	3VL17 10-1EH4□-....	1	1 unit	113	2.500
	125	125	1000	B	3VL17 12-1EH4□-....	1	1 unit	113	2.500
	160	160	1500	B	3VL17 16-1EH4□-....	1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**



#### System protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases, without overcurrent and short-circuit release in 4th pole (N)

VL160/3VL2	50	40 ... 50	300 ... 600	B	3VL27 05-1EJ4□-....	1	1 unit	113	3.000
	63	50 ... 63	300 ... 600	B	3VL27 06-1EJ4□-....	1	1 unit	113	3.000
	80	63 ... 80	400 ... 800	B	3VL27 08-1EJ4□-....	1	1 unit	113	3.000
	100	80 ... 100	500 ... 1000	B	3VL27 10-1EJ4□-....	1	1 unit	113	3.000
	125	100 ... 125	625 ... 1250	B	3VL27 12-1EJ4□-....	1	1 unit	113	3.000
	160	125 ... 160	800 ... 1600	B	3VL27 16-1EJ4□-....	1	1 unit	113	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	B	3VL37 20-1EJ4□-....	1	1 unit	113	3.200
	250	200 ... 250	1250 ... 2500	B	3VL37 25-1EJ4□-....	1	1 unit	113	3.200

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

VL400/3VL4	200	160 ... 200	1000 ... 2000	B	3VL47 20-1EJ46-....	1	1 unit	113	7.400
	250	200 ... 250	1250 ... 2500	B	3VL47 25-1EJ46-....	1	1 unit	113	7.400
	315	250 ... 315	1575 ... 3150	B	3VL47 31-1EJ46-....	1	1 unit	113	7.400
	400	320 ... 400	2000 ... 4000	B	3VL47 40-1EJ46-....	1	1 unit	113	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	B	3VL57 31-1EJ46-....	1	1 unit	113	11.200
	400	320 ... 400	2000 ... 4000	B	3VL57 40-1EJ46-....	1	1 unit	113	11.200
	500	400 ... 500	2500 ... 5000	B	3VL57 50-1EJ46-....	1	1 unit	113	11.200
	630	500 ... 630	3150 ... 6300	B	3VL57 63-1EJ46-....	1	1 unit	113	11.200

\*\* Delivery time class A for Order No. supplement "0AA0", see page 16/56.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT **	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						(H)	DT **	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L						(L)
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		

B	3VL17 96-2EH4□-....		1	1 unit	113	2,300	
B	3VL17 02-2EH4□-....		1	1 unit	113	2,300	
B	3VL17 25-2EH4□-....		1	1 unit	113	2,500	
B	3VL17 03-2EH4□-....		1	1 unit	113	2,500	
B	3VL17 04-2EH4□-....		1	1 unit	113	2,500	
B	3VL17 05-2EH4□-....		1	1 unit	113	2,500	
B	3VL17 06-2EH4□-....		1	1 unit	113	2,500	
B	3VL17 08-2EH4□-....		1	1 unit	113	2,500	
B	3VL17 10-2EH4□-....		1	1 unit	113	2,500	
B	3VL17 12-2EH4□-....		1	1 unit	113	2,500	
B	3VL17 16-2EH4□-....		1	1 unit	113	2,500	

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6

B	3VL27 05-2EJ4□-....		1	1 unit	113	3,000	B	3VL27 05-3EJ4□-....		1	1 unit	113	3,000
B	3VL27 06-2EJ4□-....		1	1 unit	113	3,000	B	3VL27 06-3EJ4□-....		1	1 unit	113	3,000
B	3VL27 08-2EJ4□-....		1	1 unit	113	3,000	B	3VL27 08-3EJ4□-....		1	1 unit	113	3,000
B	3VL27 10-2EJ4□-....		1	1 unit	113	3,000	B	3VL27 10-3EJ4□-....		1	1 unit	113	3,000
B	3VL27 12-2EJ4□-....		1	1 unit	113	3,000	B	3VL27 12-3EJ4□-....		1	1 unit	113	3,000
B	3VL27 16-2EJ4□-....		1	1 unit	113	3,000	B	3VL27 16-3EJ4□-....		1	1 unit	113	3,000
B	3VL37 20-2EJ4□-....		1	1 unit	113	3,200	B	3VL37 20-3EJ4□-....		1	1 unit	113	3,200
B	3VL37 25-2EJ4□-....		1	1 unit	113	3,200	B	3VL37 25-3EJ4□-....		1	1 unit	113	3,200

3  
63  
6

B	3VL47 20-2EJ46-....		1	1 unit	113	7,400	B	3VL47 20-3EJ46-....		1	1 unit	113	7,400
B	3VL47 25-2EJ46-....		1	1 unit	113	7,400	B	3VL47 25-3EJ46-....		1	1 unit	113	7,400
B	3VL47 31-2EJ46-....		1	1 unit	113	7,400	B	3VL47 31-3EJ46-....		1	1 unit	113	7,400
B	3VL47 40-2EJ46-....		1	1 unit	113	7,400	B	3VL47 40-3EJ46-....		1	1 unit	113	7,400
B	3VL57 31-2EJ46-....		1	1 unit	113	11,200	B	3VL57 31-3EJ46-....		1	1 unit	113	11,200
B	3VL57 40-2EJ46-....		1	1 unit	113	11,200	B	3VL57 40-3EJ46-....		1	1 unit	113	11,200
B	3VL57 50-2EJ46-....		1	1 unit	113	11,200	B	3VL57 50-3EJ46-....		1	1 unit	113	11,200
B	3VL57 63-2EJ46-....		1	1 unit	113	11,200	B	3VL57 63-3EJ46-....		1	1 unit	113	11,200

\*\* Delivery time class A for Order No. supplement "0AA0", see page 16/56.

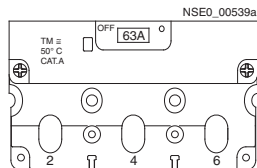
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT **	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N See "Overview".						
	A	A	A			Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
						Order No. supplement required, see page 16/56					

#### 4-pole, fixed-mounted, for system protection, 16 A to 160 A, thermal-magnetic releases LIN



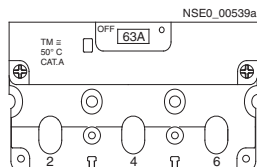
#### System protection, TM, LIN function

With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, with "N" overcurrent and short-circuit release  
N protection = 100 %

VL160X/3VL1	$I_n$	$I_R$	$I_i$	DT	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	16	16	300	B	3VL17 96-1EA4□-....		1	1 unit	113	2.300
	20	20	300	B	3VL17 02-1EA4□-....		1	1 unit	113	2.300
	25	25	300	B	3VL17 25-1EA4□-....		1	1 unit	113	2.500
	32	32	300	B	3VL17 03-1EA4□-....		1	1 unit	113	2.500
	40	40	600	B	3VL17 04-1EA4□-....		1	1 unit	113	2.500
	50	50	600	B	3VL17 05-1EA4□-....		1	1 unit	113	2.500
	63	63	600	B	3VL17 06-1EA4□-....		1	1 unit	113	2.500
	80	80	1000	B	3VL17 08-1EA4□-....		1	1 unit	113	2.500
	100	100	1000	B	3VL17 10-1EA4□-....		1	1 unit	113	2.500
	125	125	1000	B	3VL17 12-1EL4□-....		1	1 unit	113	2.500
	160	160	1500	B	3VL17 16-1EL4□-....		1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**



#### System protection, TM, LIN function

With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, with "N" overcurrent and short-circuit release  
N protection = 60 %

VL160X/3VL1	$I_n$	$I_R$	$I_i$	DT	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	125	125	1000	B	3VL17 12-1EA4□-....		1	1 unit	113	2.500
	160	160	1500	B	3VL17 16-1EA4□-....		1	1 unit	113	2.500

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

\*\* Delivery time class A for Order No. supplement "0AA0", see page 16/56.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT **	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						(H)	DT **	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L						(L)
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.			Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	Order No. supplement required, see page 16/56					kg			Order No. supplement required, see page 16/56					kg	

B	3VL17 96-2EA4□-....		1	1 unit	113	2.300	--
B	3VL17 02-2EA4□-....		1	1 unit	113	2.300	--
B	3VL17 25-2EA4□-....		1	1 unit	113	2.500	--
B	3VL17 03-2EA4□-....		1	1 unit	113	2.500	--
B	3VL17 04-2EA4□-....		1	1 unit	113	2.500	--
B	3VL17 05-2EA4□-....		1	1 unit	113	2.500	--
B	3VL17 06-2EA4□-....		1	1 unit	113	2.500	--
B	3VL17 08-2EA4□-....		1	1 unit	113	2.500	--
B	3VL17 10-2EA4□-....		1	1 unit	113	2.500	--
B	3VL17 12-2EL4□-....		1	1 unit	113	2.500	--
B	3VL17 16-2EL4□-....		1	1 unit	113	2.500	--

3  
6

B	3VL17 12-2EA4□-....		1	1 unit	113	2.500	--
B	3VL17 16-2EA4□-....		1	1 unit	113	2.500	--

3  
6

\*\* Delivery time class A for Order No. supplement "0AA0", see page 16/56.



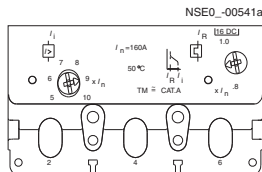
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N See "Overview".						
	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	kg

### 4-pole, fixed-mounted, for system protection, 16 A to 630 A, thermal-magnetic releases LIN



#### System protection, TM, LIN function

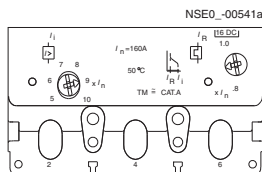
With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release  
N protection = 100 %

VL160/3VL2	50	40 ... 50	300 ... 600	B	3VL27 05-1EM4□-....	1	1 unit	113	3.000
	63	50 ... 63	300 ... 600	B	3VL27 06-1EM4□-....	1	1 unit	113	3.000
	80	63 ... 80	400 ... 800	B	3VL27 08-1EM4□-....	1	1 unit	113	3.000
	100	80 ... 100	500 ... 1000	B	3VL27 10-1EM4□-....	1	1 unit	113	3.000
	125	100 ... 125	625 ... 1250	B	3VL27 12-1EM4□-....	1	1 unit	113	3.000
	160	125 ... 160	800 ... 1600	B	3VL27 16-1EM4□-....	1	1 unit	113	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	B	3VL37 20-1EM4□-....	1	1 unit	113	3.200
	250	200 ... 250	1250 ... 2500	B	3VL37 25-1EM4□-....	1	1 unit	113	3.200

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

VL400/3VL4	200	160 ... 200	1000 ... 2000	B	3VL47 20-1EM46-....	1	1 unit	113	7.400
	250	200 ... 250	1250 ... 2500	B	3VL47 25-1EM46-....	1	1 unit	113	7.400
	315	250 ... 315	1575 ... 3150	B	3VL47 31-1EM46-....	1	1 unit	113	7.400
	400	320 ... 400	2000 ... 4000	B	3VL47 40-1EM46-....	1	1 unit	113	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	B	3VL57 31-1EM46-....	1	1 unit	113	11.200
	400	320 ... 400	2000 ... 4000	B	3VL57 40-1EM46-....	1	1 unit	113	11.200
	500	400 ... 500	2500 ... 5000	B	3VL57 50-1EM46-....	1	1 unit	113	11.200
	630	500 ... 630	3150 ... 6300	B	3VL57 63-1EM46-....	1	1 unit	113	11.200



#### System protection, TM, LIN function

With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release  
N protection = 60 %

VL160/3VL2	125	100 ... 125	625 ... 1250	B	3VL27 12-1EC4□-....	1	1 unit	113	3.000
	160	125 ... 160	800 ... 1600	B	3VL27 16-1EC4□-....	1	1 unit	113	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	B	3VL37 20-1EC4□-....	1	1 unit	113	3.200
	250	200 ... 250	1250 ... 2500	B	3VL37 25-1EC4□-....	1	1 unit	113	3.200

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal not in conjunction with RCD module **6**

VL400/3VL4	200	160 ... 200	1000 ... 2000	B	3VL47 20-1EC46-....	1	1 unit	113	7.400
	250	200 ... 250	1250 ... 2500	B	3VL47 25-1EC46-....	1	1 unit	113	7.400
	315	250 ... 315	1575 ... 3150	B	3VL47 31-1EC46-....	1	1 unit	113	7.400
	400	320 ... 400	2000 ... 4000	B	3VL47 40-1EC46-....	1	1 unit	113	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	B	3VL57 31-1EC46-....	1	1 unit	113	11.200
	400	320 ... 400	2000 ... 4000	B	3VL57 40-1EC46-....	1	1 unit	113	11.200
	500	400 ... 500	2500 ... 5000	B	3VL57 50-1EC46-....	1	1 unit	113	11.200
	630	500 ... 630	3150 ... 6300	B	3VL57 63-1EC46-....	1	1 unit	113	11.200

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						(H)	DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L						(L)
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		

Order No. supplement required, see page 16/56

Order No. supplement required, see page 16/56

B	3VL27 05-2EM4□-....		1	1 unit	113	3,000	B	3VL27 05-3EM4□-....		1	1 unit	113	3,000
B	3VL27 06-2EM4□-....		1	1 unit	113	3,000	B	3VL27 06-3EM4□-....		1	1 unit	113	3,000
B	3VL27 08-2EM4□-....		1	1 unit	113	3,000	B	3VL27 08-3EM4□-....		1	1 unit	113	3,000
B	3VL27 10-2EM4□-....		1	1 unit	113	3,000	B	3VL27 10-3EM4□-....		1	1 unit	113	3,000
B	3VL27 12-2EM4□-....		1	1 unit	113	3,000	B	3VL27 12-3EM4□-....		1	1 unit	113	3,000
B	3VL27 16-2EM4□-....		1	1 unit	113	3,000	B	3VL27 16-3EM4□-....		1	1 unit	113	3,000
B	3VL37 20-2EM4□-....		1	1 unit	113	3,200	B	3VL37 20-3EM4□-....		1	1 unit	113	3,200
B	3VL37 25-2EM4□-....		1	1 unit	113	3,200	B	3VL37 25-3EM4□-....		1	1 unit	113	3,200

3  
63  
6

B	3VL47 20-2EM46-....		1	1 unit	113	7,400	B	3VL47 20-3EM46-....		1	1 unit	113	7,400
B	3VL47 25-2EM46-....		1	1 unit	113	7,400	B	3VL47 25-3EM46-....		1	1 unit	113	7,400
B	3VL47 31-2EM46-....		1	1 unit	113	7,400	B	3VL47 31-3EM46-....		1	1 unit	113	7,400
B	3VL47 40-2EM46-....		1	1 unit	113	7,400	B	3VL47 40-3EM46-....		1	1 unit	113	7,400
B	3VL57 31-2EM46-....		1	1 unit	113	11,200	B	3VL57 31-3EM46-....		1	1 unit	113	11,200
B	3VL57 40-2EM46-....		1	1 unit	113	11,200	B	3VL57 40-3EM46-....		1	1 unit	113	11,200
B	3VL57 50-2EM46-....		1	1 unit	113	11,200	B	3VL57 50-3EM46-....		1	1 unit	113	11,200
B	3VL57 63-2EM46-....		1	1 unit	113	11,200	B	3VL57 63-3EM46-....		1	1 unit	113	11,200

3  
63  
6

B	3VL27 12-2EC4□-....		1	1 unit	113	3,000	B	3VL27 12-3EC4□-....		1	1 unit	113	3,000
B	3VL27 16-2EC4□-....		1	1 unit	113	3,000	B	3VL27 16-3EC4□-....		1	1 unit	113	3,000
B	3VL37 20-2EC4□-....		1	1 unit	113	3,200	B	3VL37 20-3EC4□-....		1	1 unit	113	3,200
B	3VL37 25-2EC4□-....		1	1 unit	113	3,200	B	3VL37 25-3EC4□-....		1	1 unit	113	3,200

B	3VL47 20-2EC46-....		1	1 unit	113	7,400	B	3VL47 20-3EC46-....		1	1 unit	113	7,400
B	3VL47 25-2EC46-....		1	1 unit	113	7,400	B	3VL47 25-3EC46-....		1	1 unit	113	7,400
B	3VL47 31-2EC46-....		1	1 unit	113	7,400	B	3VL47 31-3EC46-....		1	1 unit	113	7,400
B	3VL47 40-2EC46-....		1	1 unit	113	7,400	B	3VL47 40-3EC46-....		1	1 unit	113	7,400
B	3VL57 31-2EC46-....		1	1 unit	113	11,200	B	3VL57 31-3EC46-....		1	1 unit	113	11,200
B	3VL57 40-2EC46-....		1	1 unit	113	11,200	B	3VL57 40-3EC46-....		1	1 unit	113	11,200
B	3VL57 50-2EC46-....		1	1 unit	113	11,200	B	3VL57 50-3EC46-....		1	1 unit	113	11,200
B	3VL57 63-2EC46-....		1	1 unit	113	11,200	B	3VL57 63-3EC46-....		1	1 unit	113	11,200

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

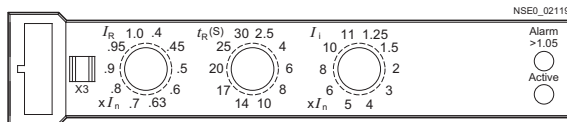
### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent release "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					
	A	A	A		Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
					Order No. supplement required, see page 16/56					kg

#### 4-pole, fixed-mounted, for system protection, 63 A to 1600 A, electronic releases LI



NSE0\_00691



NSE0\_02119

#### ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases

VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	B	3VL27 06-1□□4□-....	1	1 unit	113	3.100
	100	40 ... 100	1.25 ... 11 × $I_n$	B	3VL27 10-1□□4□-....	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... 11 × $I_n$	B	3VL27 16-1□□4□-....	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	B	3VL37 20-1□□4□-....	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... 11 × $I_n$	B	3VL37 25-1□□4□-....	1	1 unit	113	3.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	B	3VL47 31-1□□46-....	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... 11 × $I_n$	B	3VL47 40-1□□46-....	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	B	3VL57 63-1□□46-....	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	B	3VL67 80-1□□46-....	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	B	3VL77 10-1□□46-....	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... 11 × $I_n$	B	3VL77 12-1□□46-....	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	B	3VL87 16-1□□40-....	1	1 unit	113	40.800

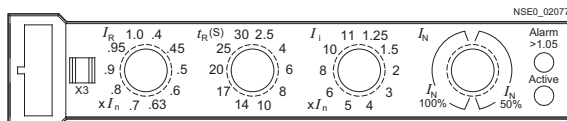
- Without communication preparation
- With communication preparation

TB  
NB

#### 4-pole, fixed-mounted, for system protection, 63 A to 1600 A, electronic releases LIN



NSE0\_00691



NSE0\_02077

#### ETU10, LIN function

With adjustable overcurrent releases, adjustable short-circuit releases, with overcurrent and short-circuit release in 4th pole (N)  
N protection = 50/100 %

VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	B	3VL27 06-1□□4□-....	1	1 unit	113	3.100
	100	40 ... 100	1.25 ... 11 × $I_n$	B	3VL27 10-1□□4□-....	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... 11 × $I_n$	B	3VL27 16-1□□4□-....	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	B	3VL37 20-1□□4□-....	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... 11 × $I_n$	B	3VL37 25-1□□4□-....	1	1 unit	113	3.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	B	3VL47 31-1□□46-....	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... 11 × $I_n$	B	3VL47 40-1□□46-....	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	B	3VL57 63-1□□46-....	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	B	3VL67 80-1□□46-....	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	B	3VL77 10-1□□46-....	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... 11 × $I_n$	B	3VL77 12-1□□46-....	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	B	3VL87 16-1□□40-....	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TA  
NA

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT $I_{cu}$ up to 70 kA at 415 V, high switching capacity H							DT $I_{cu}$ up to 100 kA at 415 V, very high switching capacity L						
Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	

B	3VL27 06-2□□4□-....	1	1 unit	113	3.100	B	3VL27 06-3□□4□-....	1	1 unit	113	3.100
B	3VL27 10-2□□4□-....	1	1 unit	113	3.100	B	3VL27 10-3□□4□-....	1	1 unit	113	3.100
B	3VL27 16-2□□4□-....	1	1 unit	113	3.100	B	3VL27 16-3□□4□-....	1	1 unit	113	3.100
B	3VL37 20-2□□4□-....	1	1 unit	113	3.300	B	3VL37 20-3□□4□-....	1	1 unit	113	3.300
B	3VL37 25-2□□4□-....	1	1 unit	113	3.300	B	3VL37 25-3□□4□-....	1	1 unit	113	3.300

3  
6

3  
6

B	3VL47 31-2□□46-....	1	1 unit	113	7.600	B	3VL47 31-3□□46-....	1	1 unit	113	7.600
B	3VL47 40-2□□46-....	1	1 unit	113	7.600	B	3VL47 40-3□□46-....	1	1 unit	113	7.600
B	3VL57 63-2□□46-....	1	1 unit	113	11.700	B	3VL57 63-3□□46-....	1	1 unit	113	11.700
B	3VL67 80-2□□46-....	1	1 unit	113	20.500	B	3VL67 80-3□□46-....	1	1 unit	113	20.500
B	3VL77 10-2□□46-....	1	1 unit	113	33.500	B	3VL77 10-3□□46-....	1	1 unit	113	33.500
B	3VL77 12-2□□46-....	1	1 unit	113	33.500	B	3VL77 12-3□□46-....	1	1 unit	113	33.500
B	3VL87 16-2□□40-....	1	1 unit	113	40.800	B	3VL87 16-3□□40-....	1	1 unit	113	40.800

TB  
NB

TB  
NB

B	3VL27 06-2□□4□-....	1	1 unit	113	3.100	B	3VL27 06-3□□4□-....	1	1 unit	113	3.100
B	3VL27 10-2□□4□-....	1	1 unit	113	3.100	B	3VL27 10-3□□4□-....	1	1 unit	113	3.100
B	3VL27 16-2□□4□-....	1	1 unit	113	3.100	B	3VL27 16-3□□4□-....	1	1 unit	113	3.100
B	3VL37 20-2□□4□-....	1	1 unit	113	3.300	B	3VL37 20-3□□4□-....	1	1 unit	113	3.300
B	3VL37 25-2□□4□-....	1	1 unit	113	3.300	B	3VL37 25-3□□4□-....	1	1 unit	113	3.300

3  
6

3  
6

B	3VL47 31-2□□46-....	1	1 unit	113	7.600	B	3VL47 31-3□□46-....	1	1 unit	113	7.600
B	3VL47 40-2□□46-....	1	1 unit	113	7.600	B	3VL47 40-3□□46-....	1	1 unit	113	7.600
B	3VL57 63-2□□46-....	1	1 unit	113	11.700	B	3VL57 63-3□□46-....	1	1 unit	113	11.700
B	3VL67 80-2□□46-....	1	1 unit	113	20.500	B	3VL67 80-3□□46-....	1	1 unit	113	20.500
B	3VL77 10-2□□46-....	1	1 unit	113	33.500	B	3VL77 10-3□□46-....	1	1 unit	113	33.500
B	3VL77 12-2□□46-....	1	1 unit	113	33.500	B	3VL77 12-3□□46-....	1	1 unit	113	33.500
B	3VL87 16-2□□40-....	1	1 unit	113	40.800	B	3VL87 16-3□□40-....	1	1 unit	113	40.800

TA  
NA

TA  
NA

Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution"

\* You can order this quantity or a multiple thereof.

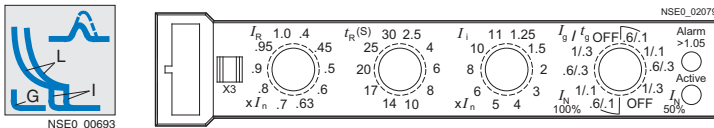
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N See "Overview".					
	A	A	A	A		Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
						Order No. supplement required, see page 16/56					

### 4-pole, fixed-mounted, for system protection, 63 A to 1600 A, electronic releases LING



#### ETU12, LING function for 4-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current, ground fault delay  $t_g = 0.1 \dots 0.3$  s, ground fault protection (G) can be switched off with overcurrent and short-circuit release in 4th pole (N), N protection = 50/100 %

Model	$I_n$	$I_R$	$I_i$	$I_g$	DT	Order No.	PU	PS*	PG	Weight
VL160/3VL2	63	25 ... 63	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL27 06-1□□4□-....	1	1 unit	113	3.100
	100	40 ... 100	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL27 10-1□□4□-....	1	1 unit	113	3.100
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL27 16-1□□4□-....	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL37 20-1□□4□-....	1	1 unit	113	3.300
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL37 25-1□□4□-....	1	1 unit	113	3.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

Model	$I_n$	$I_R$	$I_i$	$I_g$	DT	Order No.	PU	PS*	PG	Weight
VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL47 31-1□□46-....	1	1 unit	113	7.600
	400	160 ... 400	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL47 40-1□□46-....	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL57 63-1□□46-....	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL67 80-1□□46-....	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL77 10-1□□46-....	1	1 unit	113	33.500
	1250	500 ... 1250	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL77 12-1□□46-....	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	$0.6 \dots 1 \times I_n$	OFF B	3VL87 16-1□□40-....	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TN  
NN

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H <span style="float:right">(H)</span>						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L <span style="float:right">(L)</span>					
	Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg

B	3VL27 06-2□□4□-....		1	1 unit	113	3.100	B	3VL27 06-3□□4□-....		1	1 unit	113	3.100
B	3VL27 10-2□□4□-....		1	1 unit	113	3.100	B	3VL27 10-3□□4□-....		1	1 unit	113	3.100
B	3VL27 16-2□□4□-....		1	1 unit	113	3.100	B	3VL27 16-3□□4□-....		1	1 unit	113	3.100
B	3VL37 20-2□□4□-....		1	1 unit	113	3.300	B	3VL37 20-3□□4□-....		1	1 unit	113	3.300
B	3VL37 25-2□□4□-....		1	1 unit	113	3.300	B	3VL37 25-3□□4□-....		1	1 unit	113	3.300

3 6							3 6						
B	3VL47 31-2□□46-....		1	1 unit	113	7.600	B	3VL47 31-3□□46-....		1	1 unit	113	7.600
B	3VL47 40-2□□46-....		1	1 unit	113	7.600	B	3VL47 40-3□□46-....		1	1 unit	113	7.600
B	3VL57 63-2□□46-....		1	1 unit	113	11.700	B	3VL57 63-3□□46-....		1	1 unit	113	11.700
B	3VL67 80-2□□46-....		1	1 unit	113	20.500	B	3VL67 80-3□□46-....		1	1 unit	113	20.500
B	3VL77 10-2□□46-....		1	1 unit	113	33.500	B	3VL77 10-3□□46-....		1	1 unit	113	33.500
B	3VL77 12-2□□46-....		1	1 unit	113	33.500	B	3VL77 12-3□□46-....		1	1 unit	113	33.500
B	3VL87 16-2□□40-....		1	1 unit	113	40.800	B	3VL87 16-3□□40-....		1	1 unit	113	40.800
TN NN							TN NN						

\* You can order this quantity or a multiple thereof.

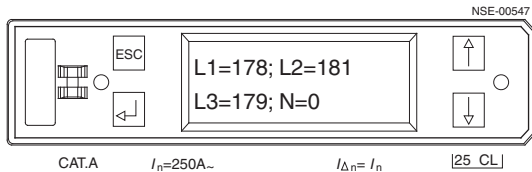
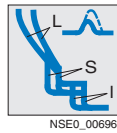
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed over-current releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					(N)	
	A	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	kg
						Order No. supplement required, see page 16/56						

### 4-pole, fixed-mounted, for system protection, 63 A to 1600 A, electronic releases LI, LSI, LIN, LSIN



#### LCD-ETU40, LI/LSI/LIN/LSIN function selectable

With adjustable overcurrent releases, adjustable short-circuit releases, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s

with overcurrent and short-circuit release in 4th pole (N), N protection = 50 ... 100 %, OFF

Type	Rated current $I_n$	Current setting of the inverse-time delayed over-current releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	kg
VL160/3VL2	63 <sup>2)</sup>	25 ... 63	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL27 06-1CJ4□-....		1	1 unit	113	3.100	
	100 <sup>2)</sup>	40 ... 100	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL27 10-1CJ4□-....		1	1 unit	113	3.100	
	160	64 ... 160	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL27 16-1CJ4□-....		1	1 unit	113	3.100	
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL37 20-1CJ4□-....		1	1 unit	113	3.300	
	250	100 ... 250	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL37 25-1CJ4□-....		1	1 unit	113	3.300	

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

Type	Rated current $I_n$	Current setting of the inverse-time delayed over-current releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) <b>S</b>	DT	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	kg
VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL47 31-1CJ46-....		1	1 unit	113	7.600	
	400	160 ... 400	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL47 40-1CJ46-....		1	1 unit	113	7.600	
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	1.5 ... 9 × $I_R$	B	3VL57 63-1CJ46-....		1	1 unit	113	11.700	
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	1.5 ... 7 × $I_R$	B	3VL67 80-1CJ46-....		1	1 unit	113	20.500	
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL77 10-1CJ46-....		1	1 unit	113	33.500	
	1250	500 ... 1250	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	B	3VL77 12-1CJ46-....		1	1 unit	113	33.500	
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	1.5 ... 8 × $I_R$	B	3VL87 16-1CJ40-....		1	1 unit	113	40.800	

- With communication preparation

CJ

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

<sup>2)</sup> N = 100 % protection for  $I_n \leq 100$  A.

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H <span style="float: right;">(H)</span>						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L <span style="float: right;">(L)</span>					
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Order No. supplement required, see page 16/56					kg		Order No. supplement required, see page 16/56					kg

B	3VL27 06-2CJ4□-....		1	1 unit	113	3.100	B	3VL27 06-3CJ4□-....		1	1 unit	113	3.100
B	3VL27 10-2CJ4□-....		1	1 unit	113	3.100	B	3VL27 10-3CJ4□-....		1	1 unit	113	3.100
B	3VL27 16-2CJ4□-....		1	1 unit	113	3.100	B	3VL27 16-3CJ4□-....		1	1 unit	113	3.100
B	3VL37 20-2CJ4□-....		1	1 unit	113	3.300	B	3VL37 20-3CJ4□-....		1	1 unit	113	3.300
B	3VL37 25-2CJ4□-....		1	1 unit	113	3.300	B	3VL37 25-3CJ4□-....		1	1 unit	113	3.300

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B	3VL47 31-2CJ46-....		1	1 unit	113	7.600	B	3VL47 31-3CJ46-....		1	1 unit	113	7.600
B	3VL47 40-2CJ46-....		1	1 unit	113	7.600	B	3VL47 40-3CJ46-....		1	1 unit	113	7.600
B	3VL57 63-2CJ46-....		1	1 unit	113	11.700	B	3VL57 63-3CJ46-....		1	1 unit	113	11.700
B	3VL67 80-2CJ46-....		1	1 unit	113	20.500	B	3VL67 80-3CJ46-....		1	1 unit	113	20.500
B	3VL77 10-2CJ46-....		1	1 unit	113	33.500	B	3VL77 10-3CJ46-....		1	1 unit	113	33.500
B	3VL77 12-2CJ46-....		1	1 unit	113	33.500	B	3VL77 12-3CJ46-....		1	1 unit	113	33.500
B	3VL87 16-2CJ40-....		1	1 unit	113	40.800	B	3VL87 16-3CJ40-....		1	1 unit	113	40.800

CJ

CJ

\* You can order this quantity or a multiple thereof.



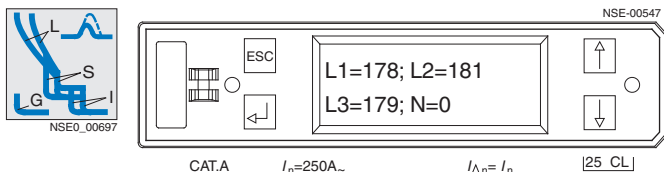
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) <b>S</b>	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview" <span style="float:right">(N)</span>					
	A	A	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
							Order No. supplement required, see page 16/56					kg

**4-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LSIG, LSING**



### LCD-ETU42, LSIG/LSING function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases, ground fault delay  $t_g = 0.1 \dots 0.5$  s, short-circuit delay  $t_{sd} = 0 \dots 0.3$  s with overcurrent and short-circuit release in 4th pole (N), N protection = 50 ... 100 %, OFF

VL160/3VL2	63	25 ... 63	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL27 06-1CN4□-....	1	1 unit	113	3.100
	100	40 ... 100	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL27 10-1CN4□-....	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL27 16-1CN4□-....	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL37 20-1CN4□-....	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL37 25-1CN4□-....	1	1 unit	113	3.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL47 31-1CN46-....	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL47 40-1CN46-....	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... 10 × $I_n$	1.5 ... 9 × $I_R$	0.4 ... 1 × $I_n$	B	3VL57 63-1CN46-....	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... 8 × $I_n$	1.5 ... 7 × $I_R$	0.4 ... 1 × $I_n$	B	3VL67 80-1CN46-....	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL77 10-1CN46-....	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... 11 × $I_n$	1.5 ... 10 × $I_R$	0.4 ... 1 × $I_n$	B	3VL77 12-1CN46-....	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	1.25 ... 9 × $I_n$	1.5 ... 8 × $I_R$	0.4 ... 1 × $I_n$	B	3VL87 16-1CN40-....	1	1 unit	113	40.800

- With communication preparation

CN

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L					
	Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg

B	3VL27 06-2CN4□-....		1	1 unit	113	3.100	B	3VL27 06-3CN4□-....		1	1 unit	113	3.100
B	3VL27 10-2CN4□-....		1	1 unit	113	3.100	B	3VL27 10-3CN4□-....		1	1 unit	113	3.100
B	3VL27 16-2CN4□-....		1	1 unit	113	3.100	B	3VL27 16-3CN4□-....		1	1 unit	113	3.100
B	3VL37 20-2CN4□-....		1	1 unit	113	3.300	B	3VL37 20-3CN4□-....		1	1 unit	113	3.300
B	3VL37 25-2CN4□-....		1	1 unit	113	3.300	B	3VL37 25-3CN4□-....		1	1 unit	113	3.300

3  
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3  
6

B	3VL47 31-2CN46-....		1	1 unit	113	7.600	B	3VL47 31-3CN46-....		1	1 unit	113	7.600
B	3VL47 40-2CN46-....		1	1 unit	113	7.600	B	3VL47 40-3CN46-....		1	1 unit	113	7.600
B	3VL57 63-2CN46-....		1	1 unit	113	11.700	B	3VL57 63-3CN46-....		1	1 unit	113	11.700
B	3VL67 80-2CN46-....		1	1 unit	113	20.500	B	3VL67 80-3CN46-....		1	1 unit	113	20.500
B	3VL77 10-2CN46-....		1	1 unit	113	33.500	B	3VL77 10-3CN46-....		1	1 unit	113	33.500
B	3VL77 12-2CN46-....		1	1 unit	113	33.500	B	3VL77 12-3CN46-....		1	1 unit	113	33.500
B	3VL87 16-2CN40-....		1	1 unit	113	40.800	B	3VL87 16-3CN40-....		1	1 unit	113	40.800

CN

CN

\* You can order this quantity or a multiple thereof.

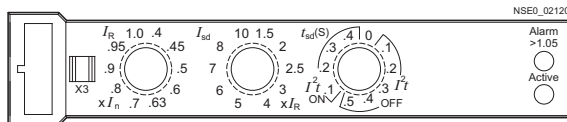
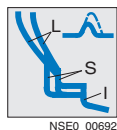
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed over-current releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_i$	S function short-circuit protection (short-time delayed) S	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					(N)	
	A	A	A	A		Order No. Order No. supplement required, see page 16/56	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	kg

### 4-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LSI



#### ETU20, LSI function for time-based discrimination

With adjustable overcurrent releases, non-adjustable short-circuit releases, short-circuit delay ( $t_{sd} = 0$  to 0.5 s)

VL160/3VL2	63	25 ... 63	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL27 06-1□□4□-....	1	1 unit	113	3.100
	100	40 ... 100	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL27 10-1□□4□-....	1	1 unit	113	3.100
	160	64 ... 160	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL27 16-1□□4□-....	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL37 20-1□□4□-....	1	1 unit	113	3.300
	250	100 ... 250	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL37 25-1□□4□-....	1	1 unit	113	3.300

Connection type can be selected by assignment of the 12th position of the Order No.

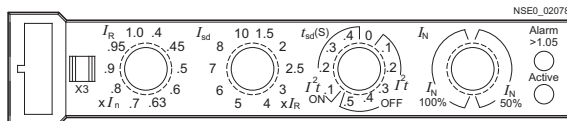
- Connection with box terminal **3**
- Connection with screw terminal **6**

VL400/3VL4	315	128 ... 315	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL47 31-1□□46-....	1	1 unit	113	7.600
	400	160 ... 400	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL47 40-1□□46-....	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	$10 \times I_n$	1.5 ... $9 \times I_R$ B	3VL57 63-1□□46-....	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	$8 \times I_n$	1.5 ... $7 \times I_R$ B	3VL67 80-1□□46-....	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL77 10-1□□46-....	1	1 unit	113	33.500
	1250	500 ... 1250	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL77 12-1□□46-....	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	1.5 ... $8 \times I_R$ B	3VL87 16-1□□40-....	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TE  
NE

### 4-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LSIN



#### ETU20, LSIN function for time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases, short-circuit delay ( $t_{sd} = 0$  to 0.5 s) with overcurrent and short-circuit release in 4th pole (N), N = 50/100 % protection

VL160/3VL2	63	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL27 06-1□□4□-....	1	1 unit	113	3.100
	100	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL27 10-1□□4□-....	1	1 unit	113	3.100
	160	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL27 16-1□□4□-....	1	1 unit	113	3.100
VL250/3VL3	200	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL37 20-1□□4□-....	1	1 unit	113	3.300
	250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL37 25-1□□4□-....	1	1 unit	113	3.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal **3**
- Connection with screw terminal **6**

VL400/3VL4	315	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL47 31-1□□46-....	1	1 unit	113	7.600
	400	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL47 40-1□□46-....	1	1 unit	113	7.600
VL630/3VL5	630	$0.4 \dots 1.0 \times I_n$	$10 \times I_n$	1.5 ... $9 \times I_R$ B	3VL57 63-1□□46-....	1	1 unit	113	11.700
VL800/3VL6	800	$0.4 \dots 1.0 \times I_n$	$8 \times I_n$	1.5 ... $7 \times I_R$ B	3VL67 80-1□□46-....	1	1 unit	113	20.500
VL1250/3VL7	1000	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL77 10-1□□46-....	1	1 unit	113	33.500
	1250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$ B	3VL77 12-1□□46-....	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	$0.4 \dots 1.0 \times I_n$	$9 \times I_n$	1.5 ... $8 \times I_R$ B	3VL87 16-1□□40-....	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TF  
NF

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L					
	Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Order No. supplement required, see page 16/56					kg		Order No. supplement required, see page 16/56					kg

B	3VL27 06-2□□4□-....		1	1 unit	113	3.100	B	3VL27 06-3□□4□-....		1	1 unit	113	3.100
B	3VL27 10-2□□4□-....		1	1 unit	113	3.100	B	3VL27 10-3□□4□-....		1	1 unit	113	3.100
B	3VL27 16-2□□4□-....		1	1 unit	113	3.100	B	3VL27 16-3□□4□-....		1	1 unit	113	3.100
B	3VL37 20-2□□4□-....		1	1 unit	113	3.300	B	3VL37 20-3□□4□-....		1	1 unit	113	3.300
B	3VL37 25-2□□4□-....		1	1 unit	113	3.300	B	3VL37 25-3□□4□-....		1	1 unit	113	3.300

3  
63  
6

B	3VL47 31-2□□46-....		1	1 unit	113	7.600	B	3VL47 31-3□□46-....		1	1 unit	113	7.600
B	3VL47 40-2□□46-....		1	1 unit	113	7.600	B	3VL47 40-3□□46-....		1	1 unit	113	7.600
B	3VL57 63-2□□46-....		1	1 unit	113	11.700	B	3VL57 63-3□□46-....		1	1 unit	113	11.700
B	3VL67 80-2□□46-....		1	1 unit	113	20.500	B	3VL67 80-3□□46-....		1	1 unit	113	20.500
B	3VL77 10-2□□46-....		1	1 unit	113	33.500	B	3VL77 10-3□□46-....		1	1 unit	113	33.500
B	3VL77 12-2□□46-....		1	1 unit	113	33.500	B	3VL77 12-3□□46-....		1	1 unit	113	33.500
B	3VL87 16-2□□40-....		1	1 unit	113	40.800	B	3VL87 16-3□□40-....		1	1 unit	113	40.800

TE  
NETE  
NE

B	3VL27 06-2□□4□-....		1	1 unit	113	3.100	B	3VL27 06-3□□4□-....		1	1 unit	113	3.100
B	3VL27 10-2□□4□-....		1	1 unit	113	3.100	B	3VL27 10-3□□4□-....		1	1 unit	113	3.100
B	3VL27 16-2□□4□-....		1	1 unit	113	3.100	B	3VL27 16-3□□4□-....		1	1 unit	113	3.100
B	3VL37 20-2□□4□-....		1	1 unit	113	3.300	B	3VL37 20-3□□4□-....		1	1 unit	113	3.300
B	3VL37 25-2□□4□-....		1	1 unit	113	3.300	B	3VL37 25-3□□4□-....		1	1 unit	113	3.300

3  
63  
6

B	3VL47 31-2□□46-....		1	1 unit	113	7.600	B	3VL47 31-3□□46-....		1	1 unit	113	7.600
B	3VL47 40-2□□46-....		1	1 unit	113	7.600	B	3VL47 40-3□□46-....		1	1 unit	113	7.600
B	3VL57 63-2□□46-....		1	1 unit	113	11.700	B	3VL57 63-3□□46-....		1	1 unit	113	11.700
B	3VL67 80-2□□46-....		1	1 unit	113	20.500	B	3VL67 80-3□□46-....		1	1 unit	113	20.500
B	3VL77 10-2□□46-....		1	1 unit	113	33.500	B	3VL77 10-3□□46-....		1	1 unit	113	33.500
B	3VL77 12-2□□46-....		1	1 unit	113	33.500	B	3VL77 12-3□□46-....		1	1 unit	113	33.500
B	3VL87 16-2□□40-....		1	1 unit	113	40.800	B	3VL87 16-3□□40-....		1	1 unit	113	40.800

TF  
NFTF  
NF

\* You can order this quantity or a multiple thereof.

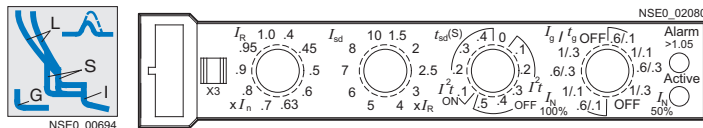
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 4-pole

Type	Rated current $I_n$	Current setting of the inverse-time delayed overcurrent releases "L" $I_R$	Operating current of the instantaneous short-circuit releases "I" $I_I$	S function short-circuit protection (short-time delayed) $I_s$	Ground-fault protection "G" $I_g$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					
	A	A	A	A	A		Order No.	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
							Order No. supplement required, see page 16/56					kg

### 4-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, electronic releases LSING



#### ETU22, LSING function for 4-wire three-phase systems and time-based discrimination

With adjustable overcurrent releases, adjustable short-circuit releases, ground fault delay  $t_{sd} = 0.1 \dots 0.3$  s, ground fault protection (G) can be switched off, short-circuit delay  $t_{sd} = 0 \dots 0.5$  s with overcurrent and short-circuit release in 4th pole (N), N protection = 50/100 %

VL160/3VL2	63	25 ... 63	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL27 06-1□□4□-....</b>	1	1 unit	113	3.100
	100	40 ... 100	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL27 10-1□□4□-....</b>	1	1 unit	113	3.100
	160	64 ... 160	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL27 16-1□□4□-....</b>	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL37 20-1□□4□-....</b>	1	1 unit	113	3.300
	250	100 ... 250	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL37 25-1□□4□-....</b>	1	1 unit	113	3.300

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal

3  
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL47 31-1□□46-....</b>	1	1 unit	113	7.600
	400	160 ... 400	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL47 40-1□□46-....</b>	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	$10 \times I_n$	1.5 ... $9 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL57 63-1□□46-....</b>	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	$8 \times I_n$	1.5 ... $7 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL67 80-1□□46-....</b>	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL77 10-1□□46-....</b>	1	1 unit	113	33.500
	1250	500 ... 1250	$11 \times I_n$	1.5 ... $10 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL77 12-1□□46-....</b>	1	1 unit	113	33.500
VL1600/3VL8 <sup>1)</sup>	1600	640 ... 1600	$9 \times I_n$	1.5 ... $8 \times I_R$	0.6 ... $1 \times I_n$	OFF B	<b>3VL87 16-1□□40-....</b>	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TH  
NH

<sup>1)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

#### Communication:

- For accessories see page 16/98.
- For more information see also Chapter 13 "Power Management System" and Chapter 18 "Software for Power Distribution".

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L					
	Order No. Order No. supplement required, see page 16/56	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg		Order No. Order No. supplement required, see page 16/56	For price see page 16/54	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg

B	3VL27 06-2□□4□-....		1	1 unit	113	3.100	B	3VL27 06-3□□4□-....		1	1 unit	113	3.100
B	3VL27 10-2□□4□-....		1	1 unit	113	3.100	B	3VL27 10-3□□4□-....		1	1 unit	113	3.100
B	3VL27 16-2□□4□-....		1	1 unit	113	3.100	B	3VL27 16-3□□4□-....		1	1 unit	113	3.100
B	3VL37 20-2□□4□-....		1	1 unit	113	3.300	B	3VL37 20-3□□4□-....		1	1 unit	113	3.300
B	3VL37 25-2□□4□-....		1	1 unit	113	3.300	B	3VL37 25-3□□4□-....		1	1 unit	113	3.300

3  
63  
6

B	3VL47 31-2□□46-....		1	1 unit	113	7.600	B	3VL47 31-3□□46-....		1	1 unit	113	7.600
B	3VL47 40-2□□46-....		1	1 unit	113	7.600	B	3VL47 40-3□□46-....		1	1 unit	113	7.600
B	3VL57 63-2□□46-....		1	1 unit	113	11.700	B	3VL57 63-3□□46-....		1	1 unit	113	11.700
B	3VL67 80-2□□46-....		1	1 unit	113	20.500	B	3VL67 80-3□□46-....		1	1 unit	113	20.500
B	3VL77 10-2□□46-....		1	1 unit	113	33.500	B	3VL77 10-3□□46-....		1	1 unit	113	33.500
B	3VL77 12-2□□46-....		1	1 unit	113	33.500	B	3VL77 12-3□□46-....		1	1 unit	113	33.500
B	3VL87 16-2□□40-....		1	1 unit	113	40.800	B	3VL87 16-3□□40-....		1	1 unit	113	40.800

TH  
NHTH  
NH

16

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 4-pole

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	$I_{cu}$ up to 55 kA at 415 V, standard switching capacity N see "Overview"					
	A			Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg

**4-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic releases I**



#### Non-automatic molded case circuit breakers<sup>1)</sup>, I function

Without overcurrent releases, with non-adjustable short-circuit releases (for intrinsic protection only), without overcurrent and short-circuit release in 4th pole (N)

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
VL160X/3VL1	100 160	1800 1800	B B	3VL17 10-1EE4□-.... 3VL17 16-1EE4□-....		1 1	1 unit 1 unit	113 113	2.500 2.500
VL160/3VL2	100 160	2500 2500	B B	3VL27 10-1EE4□-.... 3VL27 16-1EE4□-....		1 1	1 unit 1 unit	113 113	3.000 3.000
VL250/3VL3	250	3500	B	3VL37 25-1EE4□-....		1	1 unit	113	3.200

Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with screw terminal not in conjunction with RCD module

Type	Rated current $I_n$	Operating current of the instantaneous short-circuit releases "I" $I_i$	DT	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
VL400/3VL4	400	4000	B	3VL47 40-1EE46-....		1	1 unit	113	7.400
VL630/3VL5	630	6300	B	3VL57 63-1EE46-....		1	1 unit	113	11.200
VL800/3VL6	800	6500	B	3VL67 80-1EE46-....		1	1 unit	113	19.900
VL1250/3VL7	1250	12000	B	3VL77 12-1EE46-....		1	1 unit	113	31.000
VL1600/3VL8 <sup>2)</sup>	1600	14400	B	3VL87 16-1EE40-....		1	1 unit	113	38.300

<sup>1)</sup> See also the Chapter "3K, 3KE, 3LD Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

<sup>2)</sup> Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

4-pole

DT	$I_{cu}$ up to 70 kA at 415 V, high switching capacity H <span style="float: right;">(H)</span>						DT	$I_{cu}$ up to 100 kA at 415 V, very high switching capacity L <span style="float: right;">(L)</span>					
	Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg		Order No. Order No. supplement required, see page 16/56	Basic price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.  kg

B	<b>3VL17 10-2EE4□-....</b>		1	1 unit	113	2.500		--					
B	<b>3VL17 16-2EE4□-....</b>		1	1 unit	113	2.500		--					
B	<b>3VL27 10-2EE4□-....</b>		1	1 unit	113	3.000	B	<b>3VL27 10-3EE4□-....</b>		1	1 unit	113	3.000
B	<b>3VL27 16-2EE4□-....</b>		1	1 unit	113	3.000	B	<b>3VL27 16-3EE4□-....</b>		1	1 unit	113	3.000
B	<b>3VL37 25-2EE4□-....</b>		1	1 unit	113	3.200	B	<b>3VL37 25-3EE4□-....</b>		1	1 unit	113	3.200

3  
63  
6

B	<b>3VL47 40-2EE46-....</b>		1	1 unit	113	7.400	B	<b>3VL47 40-3EE46-....</b>		1	1 unit	113	7.400
B	<b>3VL57 63-2EE46-....</b>		1	1 unit	113	11.200	B	<b>3VL57 63-3EE46-....</b>		1	1 unit	113	11.200
B	<b>3VL67 80-2EE46-....</b>		1	1 unit	113	19.900	B	<b>3VL67 80-3EE46-....</b>		1	1 unit	113	19.900
B	<b>3VL77 12-2EE46-....</b>		1	1 unit	113	31.000	B	<b>3VL77 12-3EE46-....</b>		1	1 unit	113	31.000
B	<b>3VL87 16-2EE40-....</b>		1	1 unit	113	38.300	B	<b>3VL87 16-3EE40-....</b>		1	1 unit	113	38.300



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### 4-pole

Order No. supplement (for complete Order No., see pages 16/40 to 16/50) <b>3VL.7 ...</b> <input type="checkbox"/> <b>4-....</b>	Switching capacity	Type		VL160		VL250		VL400		VL630	VL800	VL1250		VL1600	
		3VL2		3VL3		3VL4		3VL5	3VL6	3VL7		3VL8			
		Rated current $I_n$		200 A 250 A		315 A 400 A		630 A	800 A	1000 A 1250 A		1600 A			
Releases		63 A	100 A	160 A	200 A	250 A	315 A	400 A	630 A	800 A	1000 A	1250 A	1600 A		
<b>Price</b>															
ETU10	<b>T B</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU10	<b>N B</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU10	<b>T A</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU10	<b>N A</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU12	<b>T N</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU12	<b>N N</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU40	<b>C J</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU42	<b>C N</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU20	<b>T E</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU20	<b>N E</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU20	<b>T F</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU20	<b>N F</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU22	<b>T H</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x
ETU22	<b>N H</b>		x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	
			x	x	x	x	x	x	x	x	x	x	x	x	x

x = Additional price

-- = Not available

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

Options

### Selection and ordering data

When ordering, add "-Z" to the complete Order No. and add the relevant order code(s).	Order No. with "-Z" 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 <b>3VL . . . . . - . . . . . - . . . . . -Z</b> and additional order code(s) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> + . . . + . . .	Add. price
		Code for further versions <b>-Z</b>

For fixed-mounted circuit breakers (wired in factory)				
<b>Prewired internal accessories</b> Connecting cables (3 m long) brought out at the rear This option "L02" can be selected <u>only</u> in combination with internal accessories (page 16/56).	For VL160X to VL1600 (3VL1 to 3VL8)	<b>L 0 2</b>		x
<b>Prewired connecting cables for motorized operating mechanisms</b> Connecting cables on the circuit breaker for motorized operating mechanisms (3 m long). On VL160X to VL400 brought out at the top. On VL630 to VL1600 brought out on the right. Motorized operating mechanism must be ordered separately, see pages 16/64 to 16/66. This option "L12" can be selected <u>only</u> in combination with motorized operating mechanisms (see pages 16/64 to 16/66).	For VL160X to VL1600 (3VL1 to 3VL8)	<b>L 1 2</b>		x
<b>Factory-fitted motorized operating mechanisms (24 V DC) on circuit breaker</b> Motorized operating mechanism <u>not</u> prewired; if prewiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available for VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8)	<b>M 2 4</b>		x x x x
<b>Factory-fitted motorized operating mechanisms (42 ... 48 V AC/DC) on circuit breaker</b> Motorized operating mechanism <u>not</u> prewired; if prewiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available for VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8)	<b>M 4 2</b>		x x x x
<b>Factory-fitted motorized operating mechanisms (60 V AC/DC) on circuit breaker</b> Motorized operating mechanism <u>not</u> prewired; if prewiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available for VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8)	<b>M 6 0</b>		x x x x
<b>Factory-fitted motorized operating mechanisms (110 ... 127 V AC/DC) on circuit breaker</b> Motorized operating mechanism <u>not</u> prewired; if prewiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available for VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8)	<b>M 1 1</b>		x x x x
<b>Factory-fitted motorized operating mechanisms (220 ... 250 V AC/DC) on circuit breaker</b> Motorized operating mechanism <u>not</u> prewired; if prewiring for the motorized operating mechanism is wanted, please specify "L12" in addition. If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must <u>not</u> be specified in addition.	Available for VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8)	<b>M 2 2</b>		x x x x

x = Additional price

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# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Options

#### 1. Order No. supplement: Undervoltage or shunt release, wiring directly to accessories

Rated control supply voltage $U_c$ /frequency	Order No. supplement	Circuit breakers Type	Additional price
50/60 Hz AC DC	3VL.....- □ □ ..	VL160X to VL400/ 3VL1 to 3VL4	VL630 to VL1600/ 3VL5 to 3VL8
		Additional price	Additional price
<b>Without auxiliary releases</b>	<b>0 A</b>	None	None
<b>With undervoltage releases</b>			
Only right pole			
V AC	V DC		
--	12	<b>2 N</b>	x
--	24	<b>2 P</b>	x
--	48	<b>2 U</b>	x
--	60	<b>2 V</b>	x
--	110 ... 127	<b>2 R</b>	x
--	220 ... 250	<b>2 S</b>	x
24	--	<b>2 D</b>	x
110 ... 127	--	<b>2 G</b>	x
220 ... 250	--	<b>2 H</b>	x
208	--	<b>2 M</b>	x
277	--	<b>2 Q</b>	x
380 ... 415	--	<b>2 J</b>	x
440 ... 480	--	<b>2 K</b>	x
500 ... 525	--	<b>2 L</b>	x
<b>With shunt releases</b>			
Only right pole			
V AC	V DC		
24	24	<b>8 C</b>	x
--	48 ... 60	<b>8 J</b>	x
--	110 ... 127	<b>8 K</b>	x
--	220 ... 250	<b>8 Q</b>	x
48 ... 60	--	<b>8 M</b>	x
110 ... 127	--	<b>8 R</b>	x
208 ... 277	--	<b>8 T</b>	x
380 ... 600	--	<b>8 V</b>	x

#### 2. Order No. supplement: Auxiliary switches (HS) and alarm switches (AS), left/right pole, wiring directly to accessories

Equipment	Order No. supplement	Circuit breakers Type	Additional price
HS = 1 NO or 1 NC switching block AS = 1 NO switching block	3VL.....- .. □ □	VL160X to VL400 <sup>1)</sup> / 3VL1 to 3VL4	VL630 to VL1600/ 3VL5 to 3VL8
		Additional price	Additional price
Without auxiliary/alarm switches	<b>A 0</b>	None	None
2 HS (1 NO/1 NC) <sup>2)</sup>	<b>B 1</b>	x <sup>1)4)</sup>	--
4 HS (2 NO/2 NC)	<b>C 1</b>	--	x
2 HS (1 NO/1 NC) + 1 AS (1 NO)	<b>D 1</b>	x <sup>1)4)</sup>	--
2 HS (1 NO/1 NC) + 1 AS (1 NO) <sup>3)</sup>	<b>E 1</b>	--	x <sup>5)</sup>

x = Additional price

-- = Not available

1) Except for installing in the left accessory compartment of the SENTRON VL160X circuit breakers with RCD module.

2) With mounting adapter up to 3 HS.

3) With mounting adapter up to 2 HS + 2 AS.

4) Not possible when using the LCD ETU with SENTRON VL160 and VL250 and when using shunt and undervoltage releases.

When using a communication-capable ETU, the accessory compartment X2 is fitted with an auxiliary switch and an alarm switch. The combination of 1st and 2nd Order No. supplement is only possible with restrictions. It is recommended to use the configurator in the Mall for selection purposes.

5) Not possible when using a communication-capable ETU.

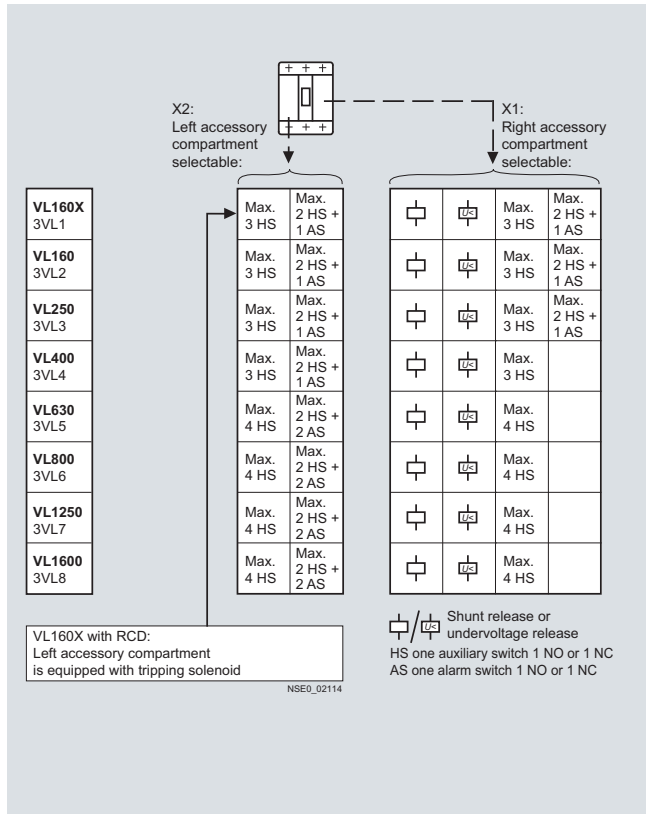
# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

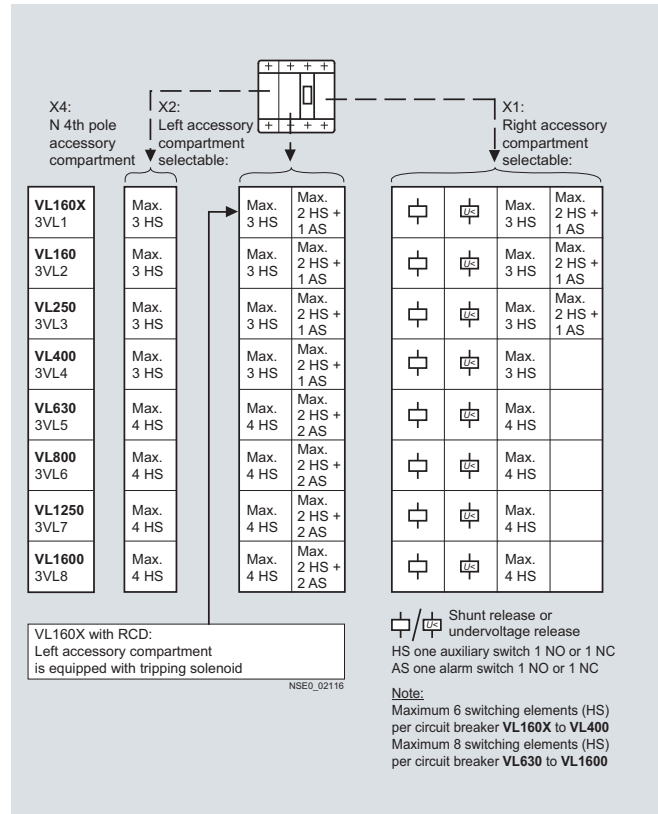
Options

### Equipment options for the insulated accessory subsections in the SENTRY 3VL circuit breakers

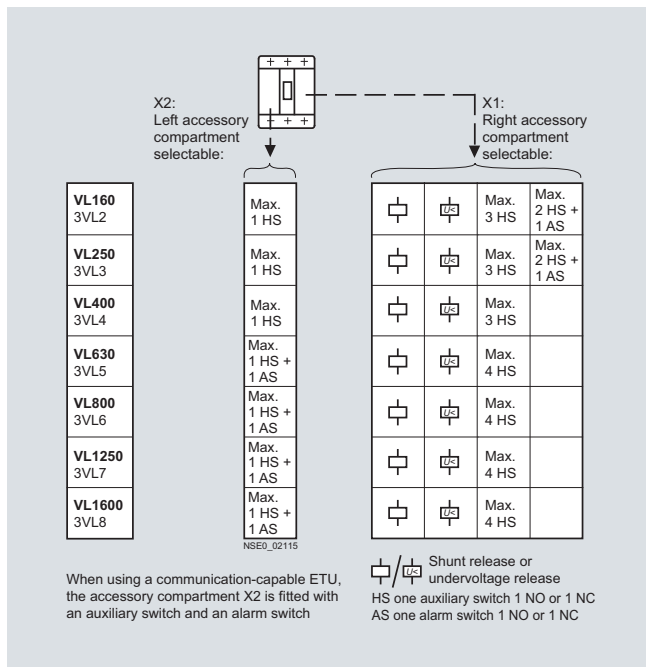
#### 3-pole circuit breakers without communication preparation



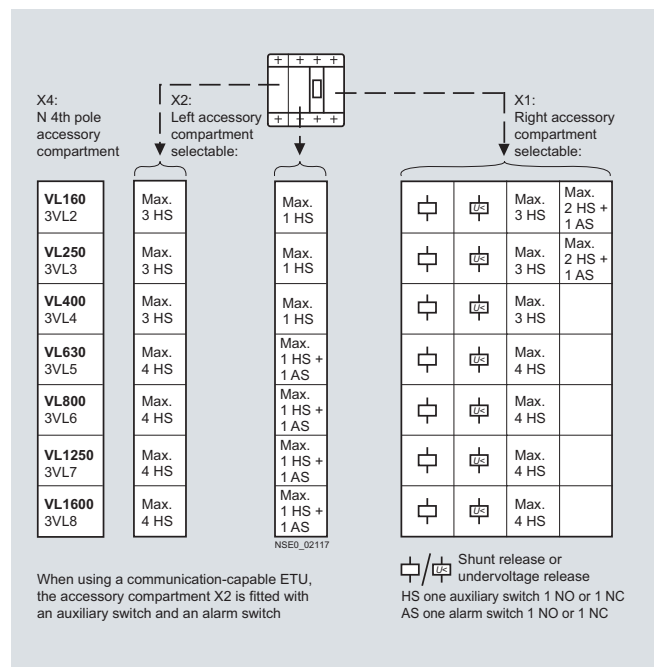
#### 4-pole circuit breakers without communication preparation



#### 3-pole circuit breakers with communication preparation



#### 4-pole circuit breakers with communication preparation



#### Note:

Before ordering, use the tables above to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

#### Selection and ordering data

Wiring directly at accessories	DT	<b>For VL160X to VL400 (3VL1 to 3VL4)</b>	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
		Order No.	Price per PU			

#### Auxiliary switches and auxiliary releases

##### 3- or 4-pole

For retrofitting (for possible complements see Technical Information at [www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support).)

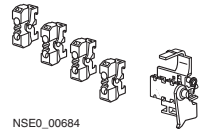
##### Auxiliary switches (HS) and alarm switches (AS)

For retrofitting

Assembly kits	Mounting side						
2 HS (1 NO + 1 NC)	N, left <sup>1)</sup> , right	A	<b>3VL9 400-2AB00</b>	1	1 unit	113	0.027
4 HS (2 NO + 2 NC)	N, left <sup>1)</sup> , right		--				
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (kit)	left <sup>1)</sup> , right <sup>3)</sup> left <sup>1)</sup>	A	<b>3VL9 400-2AD00</b>	1	1 unit	113	0.051

Additional auxiliary switch/alarm switch combinations

See page 16/60.



NSE0\_00684

3VL9 400-2A.00

##### Shunt releases<sup>2)</sup>

For retrofitting

V AC	V DC	Mounting side						
24	24	Right pole only	A	<b>3VL9 400-1SC00</b>	1	1 unit	113	0.075
--	48 ... 60	Right pole only	A	<b>3VL9 400-1SJ00</b>	1	1 unit	113	0.075
--	110 ... 127	Right pole only	A	<b>3VL9 400-1SK00</b>	1	1 unit	113	0.075
--	220 ... 250	Right pole only	A	<b>3VL9 400-1SQ00</b>	1	1 unit	113	0.075
48 ... 60	--	Right pole only	A	<b>3VL9 400-1SM00</b>	1	1 unit	113	0.075
110 ... 127	--	Right pole only	A	<b>3VL9 400-1SR00</b>	1	1 unit	113	0.075
208 ... 277	--	Right pole only	A	<b>3VL9 400-1ST00</b>	1	1 unit	113	0.075
380 ... 600	--	Right pole only	A	<b>3VL9 400-1SV00</b>	1	1 unit	113	0.075

##### Undervoltage releases

For retrofitting

V AC	V DC	Mounting side						
--	12	Right pole only	A	<b>3VL9 400-1UN00</b>	1	1 unit	113	0.075
--	24	Right pole only	A	<b>3VL9 400-1UP00</b>	1	1 unit	113	0.075
--	48	Right pole only	A	<b>3VL9 400-1UU00</b>	1	1 unit	113	0.075
--	60	Right pole only	A	<b>3VL9 400-1UV00</b>	1	1 unit	113	0.075
24	--	Right pole only	A	<b>3VL9 400-1UD00</b>	1	1 unit	113	0.075
110 ... 127	--	Right pole only	A	<b>3VL9 400-1UG00</b>	1	1 unit	113	0.075
--	110 ... 127	Right pole only	A	<b>3VL9 400-1UR00</b>	1	1 unit	113	0.075
208	--	Right pole only	A	<b>3VL9 400-1UM00</b>	1	1 unit	113	0.075
220 ... 250	--	Right pole only	A	<b>3VL9 400-1UH00</b>	1	1 unit	113	0.075
--	220 ... 250	Right pole only	A	<b>3VL9 400-1US00</b>	1	1 unit	113	0.075
--	--	Right pole only	A	<b>3VL9 400-1UQ00</b>	1	1 unit	113	0.075
380 ... 415	--	Right pole only	A	<b>3VL9 400-1UJ00</b>	1	1 unit	113	0.075
440 ... 480	--	Right pole only	A	<b>3VL9 400-1UK00</b>	1	1 unit	113	0.075
500 ... 525	--	Right pole only	A	<b>3VL9 400-1UL00</b>	1	1 unit	113	0.075

##### Time-delay devices for undervoltage releases (220 ... 250 V DC)

Rated control supply voltage  $U_s$

220 ... 250 V AC/DC

Delay time > 200 ms

	A	<b>3TX4 701-0AN1</b>	1	1 unit	101	0.170
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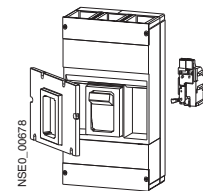
##### Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)

Rated control supply voltage  $U_s$

220 ... 240 V/220 ... 250 V AC

Storage time 5 min

	B	<b>3WL9 111-0BA14-0AA0</b>	1	1 unit	103	0.520
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NSE0\_00678

3VL9 400-1S.00,  
3VL9 400-1U.00

1) Except for installing in the left accessory compartment of the SENTRON VL160X (3VL1) circuit breakers with RCD module and SENTRON VL160/250 with LCD ETU.

2) Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at [www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support)).

3) In the case of VL400 (3VL4):  
Unsuitable for mounting in the right-hand accessory compartment.  
The 3VL9 400-2AB00 assembly kit with auxiliary switches only is recommended.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Wiring directly at accessories	DT	<b>For VL630 up to VL1600 (3VL5 to 3VL8)</b>	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		Order No.	Price per PU			kg

#### Auxiliary switches and auxiliary releases

##### 3- or 4-pole

For retrofitting (for possible complements see Technical Information at [www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support).)

##### Auxiliary switches (HS) and alarm switches (AS)

For retrofitting

Assembly kits	Mounting side						
2 HS (1 NO + 1 NC)	N, left, right	--					
4 HS (2 NO + 2 NC)	N, left, right	A	<b>3VL9 800-2AC00</b>	1	1 unit	113	0.058
2 HS (1 NC + 1 NO)	Left, right	--					
+ 1 AS (1 NO) (kit)	Left	A	<b>3VL9 800-2AE00</b>	1	1 unit	113	0.060

Additional auxiliary switch/alarm switch combinations

See page 16/60.

##### Shunt releases<sup>1)</sup>

For retrofitting

V AC	V DC	Mounting side					
24	24	Right pole only	A	<b>3VL9 800-1SC00</b>	1	1 unit	113 0.120
--	48 ... 60	Right pole only	A	<b>3VL9 800-1SJ00</b>	1	1 unit	113 0.120
--	110 ... 127	Right pole only	A	<b>3VL9 800-1SK00</b>	1	1 unit	113 0.120
--	220 ... 250	Right pole only	A	<b>3VL9 800-1SQ00</b>	1	1 unit	113 0.120
48 ... 60	--	Right pole only	A	<b>3VL9 800-1SM00</b>	1	1 unit	113 0.120
110 ... 127	--	Right pole only	A	<b>3VL9 800-1SR00</b>	1	1 unit	113 0.120
208 ... 277	--	Right pole only	A	<b>3VL9 800-1ST00</b>	1	1 unit	113 0.120
380 ... 600	--	Right pole only	A	<b>3VL9 800-1SV00</b>	1	1 unit	113 0.120

##### Undervoltage releases

For retrofitting

V AC	V DC	Mounting side					
--	12	Right pole only	A	<b>3VL9 800-1UN00</b>	1	1 unit	113 0.088
--	24	Right pole only	A	<b>3VL9 800-1UP00</b>	1	1 unit	113 0.088
--	48	Right pole only	A	<b>3VL9 800-1UU00</b>	1	1 unit	113 0.088
--	60	Right pole only	A	<b>3VL9 800-1UV00</b>	1	1 unit	113 0.088
24	--	Right pole only	A	<b>3VL9 800-1UD00</b>	1	1 unit	113 0.088
110 ... 127	--	Right pole only	A	<b>3VL9 800-1UG00</b>	1	1 unit	113 0.088
--	110 ... 127	Right pole only	A	<b>3VL9 800-1UR00</b>	1	1 unit	113 0.088
208	--	Right pole only	A	<b>3VL9 800-1UM00</b>	1	1 unit	113 0.088
220 ... 250	--	Right pole only	A	<b>3VL9 800-1UH00</b>	1	1 unit	113 0.088
--	220 ... 250	Right pole only	A	<b>3VL9 800-1US00</b>	1	1 unit	113 0.088
277	--	Right pole only	A	<b>3VL9 800-1UQ00</b>	1	1 unit	113 0.088
380 ... 415	--	Right pole only	A	<b>3VL9 800-1UJ00</b>	1	1 unit	113 0.088
440 ... 480	--	Right pole only	A	<b>3VL9 800-1UK00</b>	1	1 unit	113 0.088
500 ... 525	--	Right pole only	A	<b>3VL9 800-1UL00</b>	1	1 unit	113 0.088

##### Time-delay devices for undervoltage releases (220 ... 250 V DC)

Rated control supply voltage  $U_s$   
220 ... 250 V AC/DC

Delay time > 200 ms

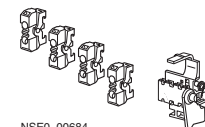
	A	<b>3TX4 701-0AN1</b>	1	1 unit	101	0.170
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##### Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)

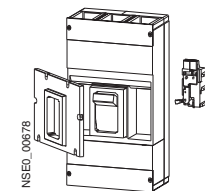
Rated control supply voltage  $U_s$   
220 ... 240 V AC/220 ... 250 V DC

Storage time 5 min

	B	<b>3WL9 111-0BA14-0AA0</b>	1	1 unit	103	0.520
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NSE0\_00684  
3VL9 800-2A.00



NSE0\_00678  
3VL9 800-1S.00,  
3VL9 800-1U.00

<sup>1)</sup> Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at [www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support)).

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

For circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type								kg

#### 3SB adapters and 3SB contact blocks

##### Mounting adapters for auxiliary and alarm switch combinations

##### For installation in the N pole of the circuit breaker

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS <sup>1)</sup> 2 HS + 1 AS <sup>1)2)</sup>	A	<b>3VL9 400-2AH00</b> --		1	1 unit	113	0.009
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS	A	<b>3VL9 816-2AL00</b> --		1	1 unit	113	0.075

##### For installation in the left pole of the circuit breaker

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS <sup>1)</sup> 2 HS + 1 AS <sup>1)2)</sup>	A	<b>3VL9 400-2AH00</b> <b>3VL9 400-2AJ10</b>		1	1 unit	113	0.009
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS	A	<b>3VL9 816-2AL00</b> <b>3VL9 816-2AN10</b>		1	1 unit	113	0.075

##### For installation in the right pole of the circuit breaker

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4) <sup>2)</sup>	Up to 3 HS <sup>1)</sup> 2 HS + 1 AS <sup>1)2)</sup>	A	<b>3VL9 400-2AH00</b> <b>3VL9 400-2AJ20</b>		1	1 unit	113	0.009
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS	A	<b>3VL9 816-2AL00</b> --		1	1 unit	113	0.075

<sup>1)</sup> Except for installing in the left pole for SENTRON VL160X circuit breakers (3VL1) with RCD module.

<sup>2)</sup> In the case of VL400: 3VL9 400-2AJ20 unsuitable for mounting in the right-hand accessory sub-section.

For auxiliary/alarm switches	DT	Circuit breakers Type	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		Order No.	Price per PU			kg

#### Contact blocks for auxiliary and alarm switch combinations

1 NO	B	<b>3SB34 00-0J</b>		1	1 unit	102	0.010
1 NC	B	<b>3SB34 00-0K</b>		1	1 unit	102	0.010

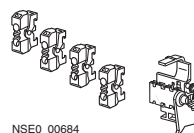
For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:

- 1 HS or 1 AS with NO contact 3SB34 00-0J
- 1 HS or 1 AS with NC contact 3SB34 00-0K

#### Note:

A maximum of 6 contact blocks (HS) per circuit breaker (VL160X, VL160, VL250, VL400; 3VL1 to 3VL4) and a maximum of 8 contact blocks (HS) per circuit breaker (VL630, VL800, VL1250, VL1600; 3VL5 to 3VL8) are possible.

Four 3SB34 auxiliary contact blocks and one mounting adapter (right), suitable for VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8) circuit breakers.



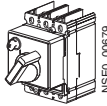
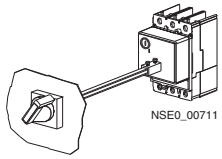
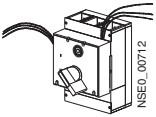
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For retrofitting/possible complement see Technical Information at [www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support).

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL160X to VL250 (3VL1 to 3VL3) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
<b>Operating mechanisms</b>								
<b>3- or 4-pole</b>								
 NSE0_00679 3VL9 .00-3H.00	<b>Front-operated rotary operating mechanisms<sup>1)</sup></b>							
	For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>2)</sup> , <u>black</u> , max. 3 padlocks		A	<b>3VL9 300-3HA00</b>	1	1 unit	113	0.362
	<u>EMERGENCY-STOP version</u> Red knob, yellow indicator plate		A	<b>3VL9 300-3HC00</b>	1	1 unit	113	0.362
<i>Safety locks for installation by the customer For installation see pages 16/84 to 16/88.</i>								
 NSE0_00711 3VL9 .00-3H.05	<b>Door-coupling rotary operating mechanisms, complete<sup>1)</sup>, installation in doors and covers</b>							
	Degree of protection IP65, including handle ti-grey, with masking plate, indicator plate, removable door coupling (die-cast with reduced tolerance compensation), 300 mm extension shaft (8 x 8 mm) and front-operated rotary operating mechanism for the respective circuit breaker, lockable with up to 3 padlocks, with door interlocking		A	<b>3VL9 300-3HF05</b>	1	1 unit	113	0.970
	<u>EMERGENCY-STOP version</u> , Red knob, yellow indicator plate, without leading auxiliary switch		A	<b>3VL9 300-3HG05</b>	1	1 unit	113	0.980
<i>Safety locks for installation by the customer For installation see pages 16/84 to 16/88.</i>								
 NSE0_00712 3VL9 .00-3A.10	<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism or side panel rotary operating mechanism</b>							
	Standard or EMERGENCY-STOP version							
	<u>"OFF after ON"</u> Leading auxiliary switches when switching on		A	<b>3VL9 300-3AS10</b>	1	1 unit	113	0.080
	1 changeover contact with 1.5 m long cables		A	<b>3VL9 300-3AT10</b>	1	1 unit	113	0.130
<u>"ON after OFF"</u> Leading auxiliary switches when switching off		A	<b>3VL9 300-3AU10</b>	1	1 unit	113	0.080	
1 changeover contact with 1.5 m long cables		A	<b>3VL9 300-3AW10</b>	1	1 unit	113	0.130	
2 changeover contacts with 1.5 m long cables		A	<b>3VL9 300-3AW10</b>	1	1 unit	113	0.130	
<b>Side panel rotary operating mechanisms, complete</b>								
Degree of protection IP65, including black knob with masking plate, indicator plate, Bowden wire, lockable with up to 3 padlocks								
	- With 600 mm Bowden wire	A	<b>3VL9 300-3HR10</b>	1	1 unit	113	1.400	
	- With 1000 mm Bowden wire	A	<b>3VL9 300-3HR20</b>	1	1 unit	113	1.400	
	- With 1500 mm Bowden wire	A	<b>3VL9 300-3HR30</b>	1	1 unit	113	1.400	
<b>Side panel rotary operating mechanisms, complete</b>								
<u>EMERGENCY-STOP version</u>								
Degree of protection IP65, including red knob with masking plate, yellow indicator plate, Bowden wire, lockable with up to 3 padlocks								
	- With 600 mm Bowden wire	A	<b>3VL9 300-3HR11</b>	1	1 unit	113	1.400	
	- With 1000 mm Bowden wire	A	<b>3VL9 300-3HR21</b>	1	1 unit	113	1.400	
	- With 1500 mm Bowden wire	A	<b>3VL9 300-3HR31</b>	1	1 unit	113	1.400	
	<b>Retaining brackets</b>	A	<b>3VL9 300-3HP00</b>	1	1 unit	113	0.253	
Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm, with locking device for max. 3 padlocks								
	<b>Rotary operating mechanisms with shaft stub, without knob<sup>1)</sup></b>	A	<b>3VL9 300-3HE00</b>	1	1 unit	113	0.267	
Without leading auxiliary switch, for auxiliary switches see above								

For more accessories and components for door-coupling rotary operating mechanisms, see pages 16/67 to 16/69.

<sup>1)</sup> Not possible on VL160X with RCD module.

<sup>2)</sup> IP40 with additional masking frame mounted on the door cutout.

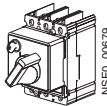
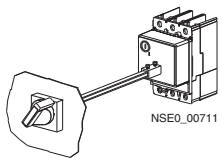
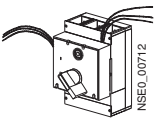
\* You can order this quantity or a multiple thereof.



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL400 (3VL4) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Operating mechanisms</b>							
<b>3- or 4-pole</b>							
 NSE0_00679 3VL9 .00-3H.00	<b>Front-operated rotary operating mechanisms</b> For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>1)</sup> , <u>black</u> , max. 3 padlocks		A	<b>3VL9 400-3HA00</b>	1	1 unit	113 0.725
	EMERGENCY-STOP version Red knob, yellow indicator plate		A	<b>3VL9 400-3HC00</b>	1	1 unit	113 0.725
<a href="#">Safety locks for installation by the customer</a> <a href="#">For installation see pages 16/84 to 16/88.</a>							
 NSE0_00711 3VL9 .00-3H.05	<b>Door-coupling rotary operating mechanisms, complete, installation in doors and covers</b> Degree of protection IP65, including handle <u>ti-grey</u> , with masking plate, indicator plate, removable door coupling (die-cast with reduced tolerance compensation), 300 mm extension shaft (8 x 8 mm) and front-operated rotary op- erating mechanism for the respective circuit breaker, lockable with up to 3 padlocks, with door interlocking		A	<b>3VL9 400-3HF05</b>	1	1 unit	113 0.970
	EMERGENCY-STOP version, Red knob, yellow indicator plate, without leading auxiliary switch		A	<b>3VL9 400-3HG05</b>	1	1 unit	113 1.100
<a href="#">Safety locks for installation by the customer</a> <a href="#">For installation see pages 16/84 to 16/88.</a>							
 NSE0_00712 3VL9 .00-3A.10	<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism or side panel rotary operating mechanism</b> Standard or EMERGENCY-STOP version						
	<b>"OFF after ON"</b> Leading auxiliary switches when switching on						
	1 changeover contact with 1.5 m long cables	A	<b>3VL9 400-3AS10</b>	1	1 unit	113 0.080	
	2 changeover contacts with 1.5 m long cables	A	<b>3VL9 400-3AT10</b>	1	1 unit	113 0.130	
<b>"ON after OFF"</b> Leading auxiliary switches when switching off							
1 changeover contact with 1.5 m long cables	A	<b>3VL9 400-3AU10</b>	1	1 unit	113 0.080		
2 changeover contacts with 1.5 m long cables	A	<b>3VL9 400-3AW10</b>	1	1 unit	113 0.130		
<b>Side panel rotary operating mechanisms, complete</b> Degree of protection IP65, including black knob with masking plate, indicator plate, Bowden wire, lockable with up to 3 padlocks							
- With 600 mm Bowden wire	A	<b>3VL9 400-3HR10</b>	1	1 unit	113 2.000		
- With 1000 mm Bowden wire	A	<b>3VL9 400-3HR20</b>	1	1 unit	113 2.000		
- With 1500 mm Bowden wire	A	<b>3VL9 400-3HR30</b>	1	1 unit	113 2.000		
<b>Side panel rotary operating mechanisms, complete</b> EMERGENCY-STOP version Degree of protection IP65, including red knob with masking plate, yellow indicator plate, Bowden wire, lockable with up to 3 padlocks							
- With 600 mm Bowden wire	A	<b>3VL9 400-3HR11</b>	1	1 unit	113 2.000		
- With 1000 mm Bowden wire	A	<b>3VL9 400-3HR21</b>	1	1 unit	113 2.000		
- With 1500 mm Bowden wire	A	<b>3VL9 400-3HR31</b>	1	1 unit	113 2.000		
<b>Retaining brackets</b>		A	<b>3VL9 400-3HP00</b>	1	1 unit	113 0.379	
Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm, with locking device for max. 3 pad- locks							
<b>Rotary operating mechanisms with shaft stub, without knob</b> Without leading auxiliary switch, <a href="#">for auxiliary switches see above</a>		A	<b>3VL9 400-3HE00</b>	1	1 unit	113 0.267	

For more accessories and components for door-coupling rotary operating mechanisms, see pages 16/67 to 16/69.

<sup>1)</sup> IP40 with additional masking frame mounted on the door cutout.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

DT	For VL630 (3VL5) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL800 (3VL6) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A	<b>3VL9 600-3HA00</b>		1	1 unit	113	0.834	A	<b>3VL9 600-3HA00</b>		1	1 unit	113	0.834
A	<b>3VL9 600-3HC00</b>		1	1 unit	113	0.834	A	<b>3VL9 600-3HC00</b>		1	1 unit	113	0.834
A	<b>3VL9 600-3HF05</b>		1	1 unit	113	2.465	A	<b>3VL9 600-3HF05</b>		1	1 unit	113	2.465
A	<b>3VL9 600-3HG05</b>		1	1 unit	113	2.460	A	<b>3VL9 600-3HG05</b>		1	1 unit	113	2.460
A	<b>3VL9 600-3AS10</b>		1	1 unit	113	0.080	A	<b>3VL9 600-3AS10</b>		1	1 unit	113	0.080
A	<b>3VL9 600-3AT10</b>		1	1 unit	113	0.130	A	<b>3VL9 600-3AT10</b>		1	1 unit	113	0.130
A	<b>3VL9 600-3AU10</b>		1	1 unit	113	0.080	A	<b>3VL9 600-3AU10</b>		1	1 unit	113	0.080
A	<b>3VL9 600-3AW10</b>		1	1 unit	113	0.130	A	<b>3VL9 600-3AW10</b>		1	1 unit	113	0.130
A	<b>3VL9 500-3HR10</b>		1	1 unit	113	2.400	--						
A	<b>3VL9 500-3HR20</b>		1	1 unit	113	2.400	--						
A	<b>3VL9 500-3HR30</b>		1	1 unit	113	2.400	--						
A	<b>3VL9 500-3HR11</b>		1	1 unit	113	2.400	--						
A	<b>3VL9 500-3HR21</b>		1	1 unit	113	2.400	--						
A	<b>3VL9 500-3HR31</b>		1	1 unit	113	2.400	--						
A	<b>3VL9 600-3HP00</b>		1	1 unit	113	0.437	A	<b>3VL9 600-3HP00</b>		1	1 unit	113	0.437
A	<b>3VL9 600-3HE00</b>		1	1 unit	113	0.755	A	<b>3VL9 600-3HE00</b>		1	1 unit	113	0.755

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

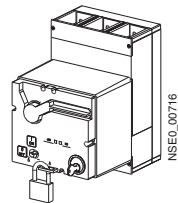
Version	DT	For VL160X to VL250 (3VL1 to 3VL3)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		Order No.	Price per PU			kg

#### Operating mechanisms

##### 3- or 4-pole

##### Motorized operating mechanisms with stored energy mechanism<sup>1)2)</sup>

Degree of protection IP30, with locking device for 3 padlocks, suitable for synchronizing



3VL9.00-3M.00

50/60 Hz V AC	V DC					
--	24	C	<b>3VL9 300-3MJ00</b>	1	1 unit	113 2.140
42 ... 48	42 ... 48	C	<b>3VL9 300-3ML00</b>	1	1 unit	113 2.140
60	60	C	<b>3VL9 300-3MS00</b>	1	1 unit	113 2.140
110 ... 127	110 ... 127	C	<b>3VL9 300-3MN00</b>	1	1 unit	113 2.140
220 ... 250	220 ... 250	C	<b>3VL9 300-3MQ00</b>	1	1 unit	113 2.140

##### Toggle handle extensions

--

Version	DT	For VL160X (3VL1)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		Order No.	Price per PU			kg

#### Operating mechanisms

##### 3- or 4-pole

##### Motorized operating mechanisms

Degree of protection IP30, with locking device for 3 padlocks

50/60 Hz V AC	V DC					
--	24	B	<b>3VL9 100-3MA10</b>	1	1 unit	113 2.100
42 ... 60	42 ... 60	B	<b>3VL9 100-3MC10</b>	1	1 unit	113 2.100
110 ... 127	110 ... 127	B	<b>3VL9 100-3MD10</b>	1	1 unit	113 2.100
220 ... 250	220 ... 250	B	<b>3VL9 100-3ME10</b>	1	1 unit	113 2.100

Version	DT	For VL160 and VL250 (3VL2 and 3VL3)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		Order No.	Price per PU			kg

#### Operating mechanisms

##### 3- or 4-pole

##### Motorized operating mechanisms

Degree of protection IP30, with locking device for 3 padlocks

50/60 Hz V AC	V DC					
--	24	B	<b>3VL9 300-3MA10</b>	1	1 unit	113 2.100
42 ... 60	42 ... 60	B	<b>3VL9 300-3MC10</b>	1	1 unit	113 2.100
110 ... 127	110 ... 127	B	<b>3VL9 300-3MD10</b>	1	1 unit	113 2.100
220 ... 250	220 ... 250	B	<b>3VL9 300-3ME10</b>	1	1 unit	113 2.100

<sup>1)</sup> Not possible on VL160X with RCD module.

<sup>2)</sup> For safety lock as an assembly kit for retrofitting see pages 16/84 to 16/88.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

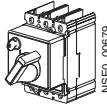
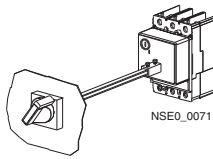
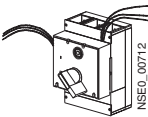
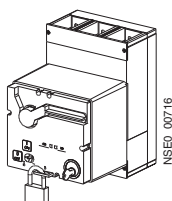
DT	For VL400 (3VL4)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL630 to VL800 (3VL5 to 3VL6)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
	Order No.	Price per PU					Order No.	Price per PU				
C	<b>3VL9 400-3MJ00</b>		1	1 unit	113	3.910	C	<b>3VL9 600-3MJ00</b>	1	1 unit	113	4.800
C	<b>3VL9 400-3ML00</b>		1	1 unit	113	3.910	C	<b>3VL9 600-3ML00</b>	1	1 unit	113	4.800
C	<b>3VL9 400-3MS00</b>		1	1 unit	113	3.910	C	<b>3VL9 600-3MS00</b>	1	1 unit	113	4.800
C	<b>3VL9 400-3MN00</b>		1	1 unit	113	3.910	C	<b>3VL9 600-3MN00</b>	1	1 unit	113	4.800
C	<b>3VL9 400-3MQ00</b>		1	1 unit	113	3.910	C	<b>3VL9 600-3MQ00</b>	1	1 unit	113	4.800
A	<b>3VL9 400-3HN00</b>		1	1 unit	113	0.100	A	<b>3VL9 600-3HN00</b>	1	1 unit	113	0.140

DT	For VL400 (3VL4)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL630 and VL800 (3VL5 and 3VL6)	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
	Order No.	Price per PU					Order No.	Price per PU				
B	<b>3VL9 400-3MA10</b>		1	1 unit	113	4.800	B	<b>3VL9 600-3MA10</b>	1	1 unit	113	4.800
B	<b>3VL9 400-3MC10</b>		1	1 unit	113	4.800	B	<b>3VL9 600-3MC10</b>	1	1 unit	113	4.800
B	<b>3VL9 400-3MD10</b>		1	1 unit	113	4.800	B	<b>3VL9 600-3MD10</b>	1	1 unit	113	4.800
B	<b>3VL9 400-3ME10</b>		1	1 unit	113	4.800	B	<b>3VL9 600-3ME10</b>	1	1 unit	113	4.800

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For 1250 to VL1600 (3VL7 and 3VL8) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Operating mechanisms</b>							
<b>3- or 4-pole</b>							
<b>Front-operated rotary operating mechanisms</b>							
For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 <sup>1)</sup> , <u>black</u> , max. 3 padlocks							
 NSE0_00679	A	<b>3VL9 800-3HA00</b>		1	1 unit	113	2.831
3VL9 .00-3H.00	A	<b>EMERGENCY-STOP version</b> Red knob, yellow indicator plate		1	1 unit	113	2.831
Safety locks for installation by the customer For installation see pages 16/84 to 16/88.							
<b>Door-coupling rotary operating mechanisms, complete, installation in doors and covers</b>							
Degree of protection IP65, including handle ti-grey, with masking plate, indicator plate, removable door coupling (die-cost), 300 mm extension shaft (12 x 12 mm) and front-operated rotary operating mechanism for the respective circuit breaker, lockable with up to 3 padlocks, with door interlocking							
 NSE0_00711	A	<b>3VL9 800-3HF05</b>		1	1 unit	113	4.102
3VL9 .00-3H.05	A	<b>EMERGENCY-STOP version</b> , Red knob, yellow indicator plate, without leading auxiliary switch		1	1 unit	113	4.100
Safety locks for installation by the customer For installation see pages 16/84 to 16/88.							
<b>Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism</b>							
Standard or EMERGENCY-STOP version							
"OFF after ON"							
Leading auxiliary switches when switching on							
 NSE0_00712	A	<b>3VL9 800-3AS10</b>		1	1 unit	113	0.080
3VL9 .00-3A.10	A	<b>2 changeover contact with 1.5 m long cables</b>		1	1 unit	113	0.130
"ON after OFF"							
Leading auxiliary switches when switching off							
	A	<b>3VL9 800-3AU10</b>		1	1 unit	113	0.080
	A	<b>3VL9 800-3AW10</b>		1	1 unit	113	0.130
2 changeover contacts with 1.5 m long cables							
<b>Retaining brackets</b>							
Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm, with locking device for max. 3 padlocks							
	A	<b>3VL9 800-3HP00</b>		1	1 unit	113	0.529
<b>Rotary operating mechanisms with shaft stub, without knob</b>							
Without leading auxiliary switch, for auxiliary switches see above							
	A	<b>3VL9 800-3HE00</b>		1	1 unit	113	2.175
<b>Motorized operating mechanisms<sup>2)</sup></b>							
Degree of protection IP30, with locking device for 3 padlocks, not suitable for synchronizing							
50/60 Hz V AC		V DC					
--	24	C	<b>3VL9 800-3MJ00</b>	1	1 unit	113	6.800
42 ... 48	42 ... 48	C	<b>3VL9 800-3ML00</b>	1	1 unit	113	6.800
60	60	C	<b>3VL9 800-3MS00</b>	1	1 unit	113	6.800
110 ... 127	110 ... 127	C	<b>3VL9 800-3MN00</b>	1	1 unit	113	6.800
220 ... 250	220 ... 250	C	<b>3VL9 800-3MQ00</b>	1	1 unit	113	6.800
 NSE0_00716	A	<b>3VL9 800-3HN00</b>		1	1 unit	113	0.234
3VL9 .00-3M.00							

For more accessories and components for door-coupling rotary operating mechanisms, see pages 16/67 to 16/69.




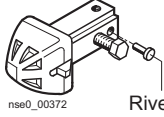
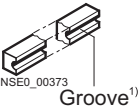
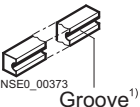
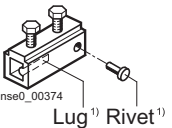
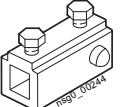
1) IP40 with additional masking frame mounted on the door cutout.

2) For safety lock as an assembly kit for retrofitting see pages 16/84 to 16/88.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Switching device	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version <sup>3)</sup>	DT	Individual parts for 8UC7 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	Type	mm × mm				Order No.	Price per PU			kg
<b>Individual parts for 8UC door-coupling rotary operating mechanisms</b>										
<b>Handles with masking plate (including flat gasket and fixing screws)</b>										
	3VL1, 3VL2, 3VL3	8UC71 1	6 × 6 or 8 × 8	Standard EMERGENCY-STOP	C	<b>8UC71 10-6BD</b> <b>8UC71 20-8BD</b>	1 1	1 unit 1 unit	103 103	0.200 0.200
	3VL4, 3VL5, 3VL6	8UC72 2	8 × 8	Standard EMERGENCY-STOP	C	<b>8UC72 10-6BD</b> <b>8UC72 20-8BD</b>	1 1	1 unit 1 unit	103 103	0.200 0.200
	3VL7, 3VL8	8UC73 3	12 × 12	Standard EMERGENCY-STOP	C	<b>8UC73 10-6BD</b> <b>8UC73 20-8BD</b>	1 1	1 unit 1 unit	103 103	0.200 0.200
<b>Individual parts for 8UC door-coupling rotary operating mechanisms</b>										
<b>Coupling drivers for 3VL</b>										
	8UC71 (plastics) 8UC71/8UC72 <sup>2)</sup> (die-cost) 8UC73/74 (die-cost)		6 × 6 8 × 8 12 × 12		C A B	<b>8UC70 11-2AA</b> <b>8UC60 17-2AA</b> <b>8UC60 14</b>	1 1 1	1 unit 1 unit 1 unit	103 103 103	0.200 0.047 0.253
<b>Extension shafts 300 mm long</b>										
	8UC71 8UC71/8UC72 8UC73 8UC73/74		6 × 6 8 × 8 10 × 10 12 × 12		B B C B	<b>8UC60 31</b> <b>8UC60 32</b> <b>8UC60 33</b> <b>8UC60 34</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	103 103 103 103	0.068 0.132 0.217 0.315
<b>Extension shafts 600 mm long</b>										
	8UC71 8UC71/8UC72 8UC73 8UC73/74		6 × 6 8 × 8 10 × 10 12 × 12		B B B B	<b>8UC60 81</b> <b>8UC60 82</b> <b>8UC60 83</b> <b>8UC60 84</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	103 103 103 103	0.136 0.265 0.430 0.640
<b>Shaft couplings</b>										
	8UC71 8UC72 8UC73 8UC73/74		6 × 6 8 × 8 10 × 10 12 × 12		B B B B	<b>8UC60 21</b> <b>8UC60 22</b> <b>8UC60 23</b> <b>8UC60 24</b>	1 1 1 1	1 unit 1 unit 1 unit 1 unit	103 103 103 103	0.031 0.023 0.085 0.077
<b>Reducers</b>										
	8UC71 8UC72		8 × 8 to 6 × 6 12 × 12 to 8 × 8		C C	<b>8UC70 58</b> <b>8UC70 50</b>	1 1	1 unit 1 unit	103 103	0.200 0.200

1) Non-interchangeability features.

2) Shortened coupling driver with reduced tolerance compensation.

3) Standard: Ti-grey handle, light-gray masking plate;  
EMERGENCY-STOP: Red handle, yellow masking plate.


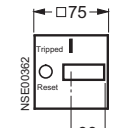

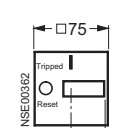

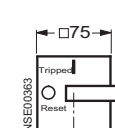

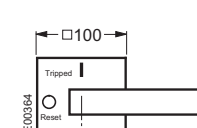
\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Switching devices <sup>1)</sup>	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	Illustrated: Handle, masking plate
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Type	A	mm	Nm		
<b>8UC Door-Coupling Rotary Operating Mechanisms</b>					
<b>8UC71 - 3VL circuit breakers</b>					
	3VL1	16 ... 160	6 × 6	4	1
	3VL2	50 ... 160	6 × 6	4	
	3VL3	200... 250	6 × 6	4	
					
	3VL1	16 ... 160	8 × 8	4	1
	3VL2	50 ... 160	8 × 8	4	
	3VL3	200... 250	8 × 8	4	
					
<b>8UC72 - 3VL circuit breakers</b>					
	3VL4	200 ... 400	8 × 8	9	2
	3VL5	315 ... 600	8 × 8	9	
	3VL6	320 ... 800	8 × 8	9	
					
<b>8UC73 - 3VL circuit breakers</b>					
	3VL7	400 ... 1250	12 × 12	25	3
	3VL8	640 ... 1600	12 × 12	25	
					

- <sup>1)</sup> For 3RV circuit breakers/motor starter protectors, see Chapter 5 "Protection Equipment, Circuit Breakers/Motor Starter Protectors".
- <sup>2)</sup> Requires in addition a front-operated rotary operating mechanism with shaft stub for direct mounting to the circuit breaker. For ordering the complete operating mechanism see pages 16/61 to 16/66.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	Rotary operating mechanisms, complete <sup>2)</sup>		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	Individual parts of the rotary operating mechanism				
		Order No.	Price per PU					Handle with masking plate	Coupling drivers	Extension shaft (length 300 mm)	Reducer/shaft coupling	
Standard: Ti-grey handle, light-gray masking plate; <u>EMERGENCY-STOP:</u> Red handle, yellow masking plate								kg	Order No.	Order No.	Order No.	Order No.
Standard EMERGENCY-STOP (plastics coupling driver)	C	<b>8UC71 11-6BD15</b>		1	1 unit	103	0.200			□ 6 mm	□ 6 mm	□ 8 mm to 6 mm
	C	<b>8UC71 21-8BD15</b>		1	1 unit	103	0.200	8UC71 10-6BD	8UC70 11-2AA	8UC60 31	8UC70 58	
Standard EMERGENCY-STOP (die-cast coupling driver with reduced tolerance compensation)	C	<b>8UC71 62-6BD22</b>		1	1 unit	103	0.200			□ 8 mm	□ 8 mm	□ 8 mm to 8 mm
	C	<b>8UC71 72-8BD22</b>		1	1 unit	103	0.200	8UC71 10-6BD	8UC60 17-2AA	8UC60 32	8UC60 22	
Standard EMERGENCY-STOP (die-cast coupling driver with reduced tolerance compensation)	C	<b>8UC72 62-6BD26</b>		1	1 unit	103	0.200			□ 8 mm	□ 8 mm	□ 12 mm to 8 mm
	C	<b>8UC72 62-8BD26</b>		1	1 unit	103	0.200	8UC72 10-6BD	8UC60 17-2AA	8UC60 32	8UC70 50	
Standard EMERGENCY-STOP (die-cast coupling driver)	C	<b>8UC73 14-6BD44</b>		1	1 unit	103	0.200			□ 12 mm	□ 12 mm	□ 12 mm to 12 mm
	C	<b>8UC73 24-8BD44</b>		1	1 unit	103	0.200	8UC73 10-6BD	8UC60 14	8UC60 34	8UC60 24	



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL160X (3VL1) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Plug-in versions/withdrawable versions</b>							
<b>3- or 4-pole</b>							
<b>Plug-in base assembly kits</b>							
Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin							
<b>Rear terminals</b>							
3VL9 .00-4PA30	A	<b>3VL9 100-4PA30</b>		1	1 unit	113	2.170
	A	<b>3VL9 100-4PB30</b>		1	1 unit	113	2.460
	A	<b>3VL9 100-4PA40</b>		1	1 unit	113	2.850
	A	<b>3VL9 100-4PB40</b>		1	1 unit	113	3.200
<b>90° angle connecting adapters</b>							
	A	<b>3VL9 300-4PE30</b>		1	1 unit	113	0.375
	A	<b>3VL9 300-4PE40</b>		1	1 unit	113	0.500
<b>Front-accessible terminals</b>							
	A	<b>3VL9 100-4PC30</b>		1	1 unit	113	1.980
	A	<b>3VL9 100-4PD30</b>		1	1 unit	113	2.260
	A	<b>3VL9 100-4PC40</b>		1	1 unit	113	2.620
	A	<b>3VL9 100-4PD40</b>		1	1 unit	113	2.960
<b>Withdrawable version assembly kits</b>							
Upgrade of the plug-in base assembly kit to							
		Withdrawable version 3-pole	--				
		including side panels 3-pole with RCD	--				
		and racking mechanism 4-pole	--				
		4-pole with RCD	--				
<b>Withdrawable versions</b>							
Same as plug-in base assembly kit, with additional side panels and racking mechanism							
<b>Rear terminals</b>							
		3-pole	--				
		3-pole with RCD module	--				
		4-pole	--				
		4-pole with RCD module	--				
<b>Front-accessible terminals</b>							
		3-pole	--				
		3-pole with RCD module	--				
		4-pole	--				
		4-pole with RCD module	--				
<b>Blade contacts</b>							
As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin							
	A	1 set = 6 units 3-pole		1	1 unit	113	0.226
	A	1 set = 8 units 4-pole		1	1 unit	113	0.295
<b>Trip pins and springs</b>							
	A	As replacement for plug-in/withdrawable circuit breakers		1	1 unit	113	0.012
<b>Auxiliary circuit plug connections for plug-in bases</b>							
Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)							
	A	8 terminals	1)	1	1 unit	113	0.134
<b>Position signaling switches</b>							
(connected/disconnected position)							
	A	For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible		1	1 unit	113	0.019

1) It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per circuit breaker (16 terminals).

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

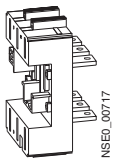
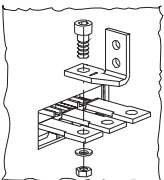
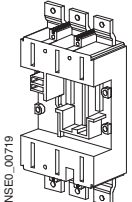
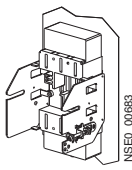
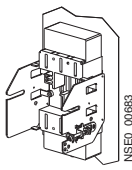
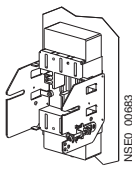
DT	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A	<b>3VL9 200-4PA30</b>		1	1 unit	113	2.170	A	<b>3VL9 300-4PA30</b>		1	1 unit	113	2.280
A	<b>3VL9 200-4PB30</b>		1	1 unit	113	2.460	A	<b>3VL9 300-4PB30</b>		1	1 unit	113	2.570
A	<b>3VL9 200-4PA40</b>		1	1 unit	113	2.850	A	<b>3VL9 300-4PA40</b>		1	1 unit	113	3.000
A	<b>3VL9 200-4PB40</b>		1	1 unit	113	3.200	A	<b>3VL9 300-4PB40</b>		1	1 unit	113	3.330
A	<b>3VL9 300-4PE30</b>		1	1 unit	113	0.375	A	<b>3VL9 300-4PE30</b>		1	1 unit	113	0.375
A	<b>3VL9 300-4PE40</b>		1	1 unit	113	0.500	A	<b>3VL9 300-4PE40</b>		1	1 unit	113	0.500
A	<b>3VL9 200-4PC30</b>		1	1 unit	113	1.980	A	<b>3VL9 300-4PC30</b>		1	1 unit	113	2.090
A	<b>3VL9 200-4PD30</b>		1	1 unit	113	2.260	A	<b>3VL9 300-4PD30</b>		1	1 unit	113	2.370
A	<b>3VL9 200-4PC40</b>		1	1 unit	113	2.620	A	<b>3VL9 300-4PC40</b>		1	1 unit	113	2.770
A	<b>3VL9 200-4PD40</b>		1	1 unit	113	2.960	A	<b>3VL9 300-4PD40</b>		1	1 unit	113	3.070
A	<b>3VL9 300-4WF30</b>		1	1 unit	113	1.260	A	<b>3VL9 300-4WF30</b>		1	1 unit	113	1.260
A	<b>3VL9 300-4WG30</b>		1	1 unit	113	2.031	A	<b>3VL9 300-4WG30</b>		1	1 unit	113	2.031
A	<b>3VL9 300-4WF40</b>		1	1 unit	113	1.280	A	<b>3VL9 300-4WF40</b>		1	1 unit	113	1.280
A	<b>3VL9 300-4WG40</b>		1	1 unit	113	2.050	A	<b>3VL9 300-4WG40</b>		1	1 unit	113	2.050
A	<b>3VL9 200-4WA30</b>		1	1 unit	113	3.430	A	<b>3VL9 300-4WA30</b>		1	1 unit	113	3.540
A	<b>3VL9 200-4WB30</b>		1	1 unit	113	4.000	A	<b>3VL9 300-4WB30</b>		1	1 unit	113	4.601
A	<b>3VL9 200-4WA40</b>		1	1 unit	113	4.130	A	<b>3VL9 300-4WA40</b>		1	1 unit	113	4.280
A	<b>3VL9 200-4WB40</b>		1	1 unit	113	4.940	A	<b>3VL9 300-4WB40</b>		1	1 unit	113	5.361
A	<b>3VL9 200-4WC30</b>		1	1 unit	113	3.240	A	<b>3VL9 300-4WC30</b>		1	1 unit	113	3.350
A	<b>3VL9 200-4WD30</b>		1	1 unit	113	3.810	A	<b>3VL9 300-4WD30</b>		1	1 unit	113	4.398
A	<b>3VL9 200-4WC40</b>		1	1 unit	113	3.940	A	<b>3VL9 300-4WC40</b>		1	1 unit	113	4.050
A	<b>3VL9 200-4WD40</b>		1	1 unit	113	4.710	A	<b>3VL9 300-4WD40</b>		1	1 unit	113	5.158
A	<b>3VL9 200-4PS30</b>		1	1 unit	113	0.248	A	<b>3VL9 300-4PS30</b>		1	1 unit	113	0.342
A	<b>3VL9 200-4PS40</b>		1	1 unit	113	0.330	A	<b>3VL9 300-4PS40</b>		1	1 unit	113	0.426
A	<b>3VL9 300-4PF00</b>		1	1 unit	113	0.013	A	<b>3VL9 300-4PF00</b>		1	1 unit	113	0.013
A	1) <b>3VL9 300-4PJ00</b>		1	1 unit	113	0.134	A	1) <b>3VL9 300-4PJ00</b>		1	1 unit	113	0.134
A	<b>3VL9 000-4WL00</b>		1	1 unit	113	0.019	A	<b>3VL9 000-4WL00</b>		1	1 unit	113	0.019

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL400 (3VL4) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Plug-in versions/withdrawable versions</b>							
<b>3- or 4-pole</b>							
<b>Plug-in base assembly kits</b>							
Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin							
<b>Rear terminals</b>							
 NSE0_00717 3VL9 .00-4PA30	A	3VL9 400-4PA30 _1)		1	1 unit	113	5.869
	A	3VL9 400-4PA40		1	1 unit	113	8.008
	A	3VL9 400-4PB40		1	1 unit	113	10.100
	A	3VL9 400-4PB40		1	1 unit	113	10.100
<b>90° angle connecting adapters</b>							
For rear connection, 3-pole							
For rear connection, 4-pole							
<b>Front-accessible terminals</b>							
 NSE00581 3VL9 .00-4PE30	A	3VL9 400-4PC30 _1)		1	1 unit	113	5.424
	A	3VL9 400-4PC40		1	1 unit	113	7.408
	A	3VL9 400-4PD40		1	1 unit	113	9.500
	A	3VL9 400-4PD40		1	1 unit	113	9.500
<b>Withdrawable version assembly kits</b>							
Upgrade of the plug-in base assembly kit to							
 NSE0_00719 3VL9 .00-4WF30	A	3VL9 400-4WF30 _1)		1	1 unit	113	3.400
	A	3VL9 400-4WF40		1	1 unit	113	3.600
	A	3VL9 400-4WG40		1	1 unit	113	3.800
	A	3VL9 400-4WG40		1	1 unit	113	3.800
<b>Withdrawable versions</b>							
Same as plug-in base assembly kit, with additional side panels and racking mechanism							
<b>Rear terminals<sup>3)</sup></b>							
 NSE0_00683 3VL9 .00-4WA30	A	3VL9 400-4WA30 _1)		1	1 unit	113	8.769
	A	3VL9 400-4WA40		1	1 unit	113	11.549
	A	3VL9 400-4WB40		1	1 unit	113	13.200
	A	3VL9 400-4WB40		1	1 unit	113	13.200
<b>Front-accessible terminals</b>							
 NSE0_00683 3VL9 .00-4WC30	A	3VL9 400-4WC30 _1)		1	1 unit	113	8.324
	A	3VL9 400-4WC40		1	1 unit	113	10.949
	A	3VL9 400-4WD40		1	1 unit	113	12.600
	A	3VL9 400-4WD40		1	1 unit	113	12.600
<b>Blade contacts</b>							
As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin							
1 set = 6 units 3-pole							
1 set = 8 units 4-pole							
 NSE0_00683 3VL9 .00-4WA30	A	3VL9 400-4PS30		1	1 unit	113	0.720
	A	3VL9 400-4PS40		1	1 unit	113	0.960
<b>Trip pins and springs</b>							
As replacement for plug-in/withdrawable circuit breakers							
A	A	3VL9 400-4PF00		1	1 unit	113	0.015
<b>Auxiliary circuit plug connections for plug-in bases</b>							
Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)							
2)							
8 terminals	A	3VL9 400-4PJ00		1	1 unit	113	0.144
<b>Position signaling switches</b> (connected/disconnected position)							
For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible							
A	A	3VL9 000-4WL00		1	1 unit	113	0.019

1) For 3-pole applications please use 4-pole withdrawable version with 4-pole RCD module and 4-pole circuit breaker.

2) It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).

3) With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

DT	For VL630 (3VL5) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL800 (3VL6) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A	3VL9 500-4PA30		1	1 unit	113	8.200	--						
A	3VL9 500-4PA40		1	1 unit	113	11.200	--						
	--						--						
	--						--						
A	3VL9 500-4PC30		1	1 unit	113	7.400	--						
A	3VL9 500-4PC40		1	1 unit	113	9.600	--						
	--						--						
A	3VL9 500-4WF30		1	1 unit	113	3.600	--						
A	3VL9 500-4WF40		1	1 unit	113	3.800	--						
	--						--						
A	3VL9 500-4WA30		1	1 unit	113	11.000	A	3VL9 600-4WA30		1	1 unit	113	40.104
A	3VL9 500-4WA40		1	1 unit	113	15.000	A	3VL9 600-4WA40		1	1 unit	113	48.060
	--						--						
A	3VL9 500-4WC30		1	1 unit	113	10.300	A	3VL9 600-4WC30		1	1 unit	113	40.716
A	3VL9 500-4WC40		1	1 unit	113	13.400	A	3VL9 600-4WC40		1	1 unit	113	48.876
	--						--						
A	3VL9 500-4PS30		1	1 unit	113	1.260	A	3VL9 600-4PS30		1	1 unit	113	1.500
A	3VL9 500-4PS40		1	1 unit	113	1.680	A	3VL9 600-4PS40		1	1 unit	113	2.000
A	3VL9 500-4PF00		1	1 unit	113	0.018	A	3VL9 600-4PF00		1	1 unit	113	0.025
	--						--						
	2)							2)					
A	3VL9 600-4PJ00		1	1 unit	113	0.144	A	3VL9 600-4PJ00		1	1 unit	113	0.144
A	3VL9 000-4WL00		1	1 unit	113	0.019	A	3VL9 000-4WL00		1	1 unit	113	0.019

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL1250 (3VL7) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Plug-in versions/withdrawable versions</b>							
<b>3- or 4-pole</b>							
<b>Plug-in base assembly kits</b>							
Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin							
<b>Rear terminals</b>							
3-pole --							
3-pole with RCD module ---							
4-pole --							
4-pole with RCD module ---							
<b>90° angle connecting adapters</b>							
For rear connection, 3-pole --							
For rear connection, 4-pole --							
<b>Front-accessible terminals</b>							
3-pole --							
3-pole with RCD module ---							
4-pole --							
4-pole with RCD module ---							
<b>Withdrawable version assembly kits</b>							
Upgrade of the plug-in base assembly kit to							
Withdrawable version 3-pole --							
including side panels 3-pole with RCD ---							
and racking mechanism 4-pole --							
4-pole with RCD ---							
<b>Withdrawable versions</b>							
Same as plug-in base assembly kit, with additional side panels and racking mechanism							
<b>Rear terminals<sup>1)</sup></b>							
3-pole A <b>3VL9 800-4WA30</b> 1 1 unit 113 39.996							
3-pole with RCD module --							
4-pole A <b>3VL9 800-4WA40</b> 1 1 unit 113 47.148							
4-pole with RCD module --							
<b>Front-accessible terminals</b>							
3-pole A <b>3VL9 800-4WC30</b> 1 1 unit 113 40.608							
3-pole with RCD module --							
4-pole A <b>3VL9 800-4WC40</b> 1 1 unit 113 47.964							
4-pole with RCD module --							
<b>Blade contacts</b>							
As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin							
1 set = 6 units 3-pole A <b>3VL9 800-4PS30</b> 1 1 unit 113 2.000							
1 set = 8 units 4-pole A <b>3VL9 800-4PS40</b> 1 1 unit 113 2.660							
<b>Trip pins and springs</b>							
As replacement for plug-in/withdrawable circuit breakers A <b>3VL9 800-4PF00</b> 1 1 unit 113 0.030							
<b>Auxiliary circuit plug connections for plug-in bases</b>							
Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)							
8 terminals A <sup>2)</sup> <b>3VL9 800-4PJ00</b> 1 1 unit 113 0.144							
<b>Position signaling switches</b> (connected/disconnected position)							
For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible A <b>3VL9 000-4WL00</b> 1 1 unit 113 0.019							

<sup>1)</sup> With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

<sup>2)</sup> It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

DT	For VL1600 (3VL8) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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	---					
	---					
	---					
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	---					
A	<b>3VL9 800-4WA30</b>		1	1 unit	113	39.996
A	<b>3VL9 800-4WA40</b>		1	1 unit	113	47.148
A	<b>3VL9 800-4WC30</b>		1	1 unit	113	40.608
A	<b>3VL9 800-4WC40</b>		1	1 unit	113	47.964
A	<b>3VL9 800-4PS30</b>		1	1 unit	113	2.000
A	<b>3VL9 800-4PS40</b>		1	1 unit	113	2.660
A	<b>3VL9 800-4PF00</b>		1	1 unit	113	0.030
A	2) <b>3VL9 800-4PJ00</b>		1	1 unit	113	0.144
A	<b>3VL9 000-4WL00</b>		1	1 unit	113	0.019

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

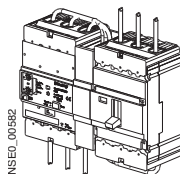
## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Circuit breakers for system protection, <b>only for TM, starters, disconnectors</b>	Rated current $I_n$	Residual currents $I_{\Delta}$ adjustable	Delay time $t_d$ adjustable	Rated operational voltage $U_e$	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	A	s	V AC							kg

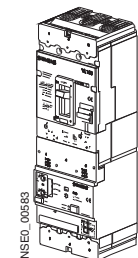
#### RCD modules

##### 3-pole



VL160X (3VL1)		0.03	Instantaneous								
Bottom mounting <sup>1)3)</sup>	160	0.10	0.06	127 ... 480 C		<b>3VL9 112-5GA30</b>		1	1 unit	113	1.340
Mounting kit for left side, without RCD <sup>1)2)3)</sup>		0.30	0.10		A	<b>3VL9 112-5GB30</b>		1	1 unit	113	1.525
		0.50	0.25								
		1.00	0.50								
VL160 (3VL2)	160	3.00	1.00	127 ... 480 C		<b>3VL9 216-5GC30</b>		1	1 unit	113	1.320
				230 ... 690 C		<b>3VL9 216-5GD30</b>		1	1 unit	113	1.320
SENTRON VL160X with RCD module mounted laterally on the circuit breaker (on left side)	VL250 (3VL3)	250		127 ... 480 C		<b>3VL9 325-5GE30</b>		1	1 unit	113	1.400
				230 ... 690 C		<b>3VL9 325-5GF30</b>		1	1 unit	113	1.400
	VL400 (3VL4)	400		127 ... 480		--					
				230 ... 690		--					

##### 4-pole



VL160X (3VL1)		0.03	Instantaneous								
Bottom mounting <sup>1)3)</sup>	160	0.10	0.06	127 ... 480 C		<b>3VL9 112-5GA40</b>		1	1 unit	113	1.590
Mounting kit for left side, without RCD <sup>1)2)3)</sup>		0.30	0.10		A	<b>3VL9 112-5GB40</b>		1	1 unit	113	1.824
		0.50	0.25								
		1.00	0.50								
VL160 (3VL2)	160	3.00	1.00	127 ... 480 C		<b>3VL9 216-5GC40</b>		1	1 unit	113	1.570
				230 ... 690 C		<b>3VL9 216-5GD40</b>		1	1 unit	113	1.570
SENTRON VL160X up to VL400 with RCD module mounted below the circuit breaker	VL250 (3VL3)	250		127 ... 480 C		<b>3VL9 325-5GE40</b>		1	1 unit	113	1.650
				230 ... 690 C		<b>3VL9 325-5GF40</b>		1	1 unit	113	1.650
	VL400 (3VL4)	400		127 ... 480 C		<b>3VL9 440-5GG40</b>		1	1 unit	113	2.980
				230 ... 690 C		<b>3VL9 440-5GH40</b>		1	1 unit	113	2.980

Circuit breakers for system protection, <b>only for TM, starters, disconnectors</b>	Rated current $I_n$	Residual currents $I_{\Delta}$ adjustable	Delay time $t_d$ adjustable	Rated operational voltage $U_e$	3-pole circuit breakers	4-pole circuit breakers
	A	A	s	V AC	Order No. with "-Z" and additional order code <input type="checkbox"/> <input type="checkbox"/> Code for further versions <b>-Z</b>	Order No. with "-Z" and additional order code <input type="checkbox"/> <input type="checkbox"/> Code for further versions <b>-Z</b>

#### Circuit breakers with RCD module

##### 3-pole and 4-pole

VL160X (3VL1)		0.03	Instantaneous							
(Bottom mounting)	160	0.10	0.06	127 ... 480	<b>A 0 1</b> <sup>1)3)</sup>	x <b>A 0 1</b> <sup>1)3)</sup>				x
		0.30	0.10							
		0.50	0.25							
VL160 (3VL2)	160	1.00	0.50	127 ... 480	<b>A 0 1</b>	x <b>A 0 1</b>				x
		3.00	1.00	230 ... 690	<b>A 0 2</b>	x <b>A 0 2</b>				x
SENTRON VL160X with RCD module mounted laterally on the circuit breaker (on left side)	VL250 (3VL3)	250		127 ... 480	<b>A 0 1</b>	x <b>A 0 1</b>				x
				230 ... 690	<b>A 0 2</b>	x <b>A 0 2</b>				x
	VL400 (3VL4)	400		127 ... 480	--	<b>A 0 1</b>				x
				230 ... 690	--	<b>A 0 2</b>				x

x = Additional price

1) Only the right-hand accessory compartment and the N conductor (4-pole) accessory compartment can be used for the installation of accessories, see [Technical Information at www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support).

















2) The assembly kit consists of the mounting plate, wiring and covers for circuit breakers and RCD module (for 75 mm standard mounting rail). The RCD module (3VL9 112-5GA30/-5GA40) must be ordered separately.

3) VL160X (3VL1) + RCD module cannot be combined with motorized operating mechanism, front operating mechanism, door-coupling rotary operating mechanism, locking device for toggle levers and screw terminal connections (3VL17.....6-....).

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL160X (3VL1) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Connection methods for fixed-mounted circuit breakers</b>							
<b>3- or 4-pole</b>							
 NSE0_00702a	<b>Front connecting bars<sup>1)</sup></b> Phase barriers included. Standard						
3VL9 .00-4EC40	1 set = 3 units	3-pole	A	<b>3VL9 216-4EC30</b>	1	1 unit	113 0.198
	1 set = 4 units	4-pole	A	<b>3VL9 216-4EC40</b>	1	1 unit	113 0.198
 NSE0_00722	For increased pole spacing						
3VL9 .00-4ED40	1 set = 3 units	3-pole	A	<b>3VL9 216-4ED30</b>	1	1 unit	113 0.189
	1 set = 4 units	4-pole	A	<b>3VL9 216-4ED40</b>	1	1 unit	113 0.252
<b>Rear terminals</b>							
	Short terminal (1 unit)		A	<b>3VL9 100-4RA00</b>	1	1 unit	113 0.126
	Long terminal (1 unit)		A	<b>3VL9 100-4RB00</b>	1	1 unit	113 0.229
	Terminal kit (2 short + 1 long)		A	<b>3VL9 100-4RC30</b>	1	1 unit	113 0.481
3VL9 .00-4RA00, 3VL9 .00-4RB00	Terminal kit (2 short + 2 long)		A	<b>3VL9 100-4RF40</b>	1	1 unit	113 0.711
	Short flat connector (1 unit)		A	<b>3VL9 100-4RK00</b>	1	1 unit	113 0.104
	Long flat connector (1 unit)		A	<b>3VL9 100-4RL00</b>	1	1 unit	113 0.200
	Flat connector kit (2 short + 1 long)		A	<b>3VL9 100-4RM30</b>	1	1 unit	113 0.408
	Flat connector kit (2 short + 2 long)		A	<b>3VL9 100-4RN40</b>	1	1 unit	113 0.608
3VL9 .00-4RK00, 3VL9 .00-4RL00	Flat connecting bar (1 unit)			--			
	Flat connecting bar			--			
	Set = 3 units, 3-pole			--			
	Flat connecting bar			--			
	Set = 4 units, 4-pole			--			
	Box terminals						
3VL9 .00-4RG00	For connection for flexible flat copper busbar or cable, <a href="http://www.siemens.com/lowvoltage/support">see Technical Information at www.siemens.com/lowvoltage/support</a> .						
	Circular conductor terminals						
3VL9 .00-4TC.0	Only for cables (Al or Cu) Aluminum terminal (tinned)						
	1 set = 3 units		A	<b>3VL9 100-4TD30</b>	1	1 unit	113 0.041
	1 set = 4 units		A	<b>3VL9 100-4TD40</b>	1	1 unit	113 0.055
	Auxiliary conductor terminals						
3VL9 .00-4TD.0	For box terminals/circular conductor terminals 1 set = 10 units		A	<b>3VL9 200-3TN00</b>	1	1 unit	113 0.130
<b>Terminals with screw connection - metric thread</b>							
	With insulator (for rear) for use with busbars and cable lugs, <a href="http://www.siemens.com/lowvoltage/support">see Technical Information at www.siemens.com/lowvoltage/support</a> .						
3VL9 .00-4TA.0	1 set = 3 units		A	<b>3VL9 116-4TA30</b>	1	1 unit	113 0.055
	1 set = 4 units		A	<b>3VL9 116-4TA40</b>	1	1 unit	113 0.070
<b>Terminal covers for circuit breakers</b>							
	Degree of protection IP30 for main connections 1 set = 2 units						
3VL9 .00-3CB.0	Extended		A	<b>3VL9 300-8CA30</b>	1	1 unit	113 0.204
	Standard		A	<b>3VL9 300-8CB30</b>	1	1 unit	113 0.053
	Extended		A	<b>3VL9 300-8CA40</b>	1	1 unit	113 0.264
3VL9 .00-8CE00	Standard		A	<b>3VL9 300-8CB40</b>	1	1 unit	113 0.071
<b>Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions</b>							
	1 set = 2 units		A	<b>3VL9 300-8CE00</b>	1	1 unit	113 0.023

<sup>1)</sup> Screw terminal connections are required for SENTRON VL160X and VL160 (3VL1 and 3VL2) circuit breakers, [see Technical Information at www.siemens.com/lowvoltage/support](http://www.siemens.com/lowvoltage/support).





# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

DT	For VL250 (3VL3) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL400 (3VL4) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A	<b>3VL9 300-4EC30</b>		1	1 unit	113	0.256	A	<b>3VL9 400-4EC30</b>		1	1 unit	113	0.889
A	<b>3VL9 300-4EC40</b>		1	1 unit	113	0.345	A	<b>3VL9 400-4EC40</b>		1	1 unit	113	1.193
A	<b>3VL9 300-4ED30</b>		1	1 unit	113	0.256	A	<b>3VL9 400-4ED30</b>		1	1 unit	113	0.916
A	<b>3VL9 300-4ED40</b>		1	1 unit	113	0.345	A	<b>3VL9 400-4ED40</b>		1	1 unit	113	1.229
A	<b>3VL9 300-4RA00</b>		1	1 unit	113	0.126	A	<b>3VL9 400-4RA00</b>		1	1 unit	113	0.219
A	<b>3VL9 300-4RB00</b>		1	1 unit	113	0.229	A	<b>3VL9 400-4RB00</b>		1	1 unit	113	0.377
A	<b>3VL9 300-4RC30</b>		1	1 unit	113	0.481	A	<b>3VL9 400-4RC30</b>		1	1 unit	113	0.816
A	<b>3VL9 300-4RF40</b>		1	1 unit	113	0.711	A	<b>3VL9 400-4RF40</b>		1	1 unit	113	1.192
A	<b>3VL9 300-4RK00</b>		1	1 unit	113	0.104	A	<b>3VL9 400-4RK00</b>		1	1 unit	113	0.343
A	<b>3VL9 300-4RL00</b>		1	1 unit	113	0.200	A	<b>3VL9 400-4RL00</b>		1	1 unit	113	0.502
A	<b>3VL9 300-4RM30</b>		1	1 unit	113	0.408	A	<b>3VL9 400-4RM30</b>		1	1 unit	113	1.190
A	<b>3VL9 300-4RN40</b>		1	1 unit	113	0.608	A	<b>3VL9 400-4RN40</b>		1	1 unit	113	1.690
--								--					
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A	<b>3VL9 300-4TC30</b>		1	1 unit	113	0.192	A	<b>3VL9 400-4TC30</b>		1	1 unit	113	0.423
A	<b>3VL9 300-4TC40</b>		1	1 unit	113	0.256	A	<b>3VL9 400-4TC40</b>		1	1 unit	113	0.573
A	<b>3VL9 300-4TD30</b>		1	1 unit	113	0.159	A	<b>3VL9 400-4TD30</b>		1	1 unit	113	0.260
A	<b>3VL9 300-4TD40</b>		1	1 unit	113	0.212	A	<b>3VL9 400-4TD40</b>		1	1 unit	113	0.340
--							A	<b>3VL9 400-4TF30</b>		1	1 unit	113	0.420
--							A	<b>3VL9 400-4TF40</b>		1	1 unit	113	0.560
A	<b>3VL9 300-3TN00</b>		1	1 unit	113	0.150	A	<b>3VL9 400-3TN00</b>		1	1 unit	113	0.140
--								--					
--								--					
A	<b>3VL9 300-4TA30</b>		1	1 unit	113	0.090	A	<b>3VL9 400-4TA30</b>		1	1 unit	113	0.112
A	<b>3VL9 300-4TA40</b>		1	1 unit	113	0.120	A	<b>3VL9 400-4TA40</b>		1	1 unit	113	0.149
A	<b>3VL9 300-8CA30</b>		1	1 unit	113	0.204	A	<b>3VL9 400-8CA30</b>		1	1 unit	113	0.450
A	<b>3VL9 300-8CB30</b>		1	1 unit	113	0.053	A	<b>3VL9 400-8CB30</b>		1	1 unit	113	0.120
A	<b>3VL9 300-8CA40</b>		1	1 unit	113	0.264	A	<b>3VL9 400-8CA40</b>		1	1 unit	113	0.594
A	<b>3VL9 300-8CB40</b>		1	1 unit	113	0.071	A	<b>3VL9 400-8CB40</b>		1	1 unit	113	0.164
A	<b>3VL9 300-8CE00</b>		1	1 unit	113	0.023	A	<b>3VL9 600-8CE00</b>		1	1 unit	113	0.042

\* You can order this quantity or a multiple thereof.



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts



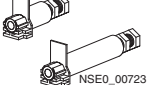


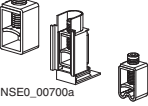
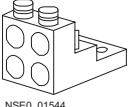



DT	For VL800 (3VL6) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL1250 (3VL7) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A	<b>3VL9 600-4EC30</b>		1	1 unit	113	1.602	A	<b>3VL9 800-4EC30</b>		1	1 unit	113	3.313
A	<b>3VL9 600-4EC40</b>		1	1 unit	113	2.136	A	<b>3VL9 800-4EC40</b>		1	1 unit	113	4.438
A	<b>3VL9 600-4ED30</b>		1	1 unit	113	1.613	--	--					
A	<b>3VL9 600-4ED40</b>		1	1 unit	113	2.154	--	--					
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--	--						--	--					
--	--						--	--					
A	<b>3VL9 600-4RG00</b>		1	1 unit	113	1.604	A	<b>3VL9 700-4RG00</b>		1	1 unit	113	1.604
A	<b>3VL9 600-4RH30</b>		1	1 unit	113	4.812	A	<b>3VL9 700-4RH30</b>		1	1 unit	113	4.812
A	<b>3VL9 600-4RH40</b>		1	1 unit	113	6.416	A	<b>3VL9 700-4RH40</b>		1	1 unit	113	6.416
A	<b>3VL9 600-4TG30</b>		1	1 unit	113	0.918	A	<b>3VL9 700-4TG30</b>		1	1 unit	113	2.175
A	<b>3VL9 600-4TG40</b>		1	1 unit	113	1.224	A	<b>3VL9 700-4TG40</b>		1	1 unit	113	2.900
A	<b>3VL9 400-3TN00</b>		1	1 unit	113	0.140	A	<b>3VL9 400-3TN00</b>		1	1 unit	113	0.140
--	--						--	--					
--	--						--	--					
A	<b>3VL9 600-4TA30</b>		1	1 unit	113	0.289	A	<b>3VL9 800-4TA30</b>		1	1 unit	113	0.319
A	<b>3VL9 600-4TA40</b>		1	1 unit	113	0.386	A	<b>3VL9 800-4TA40</b>		1	1 unit	113	0.426
A	<b>3VL9 600-8CA30</b>		1	1 unit	113	0.696	A	<b>3VL9 800-8CA30</b>		1	1 unit	113	1.060
A	<b>3VL9 600-8CB30</b>		1	1 unit	113	0.210	A	<b>3VL9 800-8CB30</b>		1	1 unit	113	0.360
A	<b>3VL9 600-8CA40</b>		1	1 unit	113	0.960	A	<b>3VL9 800-8CA40</b>		1	1 unit	113	1.326
A	<b>3VL9 600-8CB40</b>		1	1 unit	113	0.270	A	<b>3VL9 800-8CB40</b>		1	1 unit	113	0.470
A	<b>3VL9 600-8CE00</b>		1	1 unit	113	0.042	A	<b>3VL9 800-8CE00</b>		1	1 unit	113	0.130

<sup>2)</sup> Plug-in version: Not for VL1250 (3VL7),  
withdrawable version: Not for VL800 (3VL6) and VL1250 (3VL7).

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

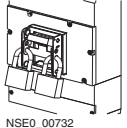
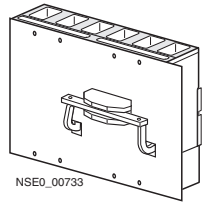
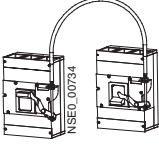
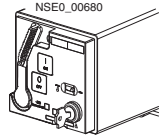
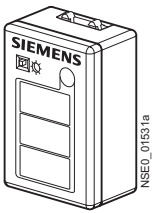
Version	DT	For VL1600 (3VL8) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Connection parts for fixed-mounted circuit breakers</b>							
<b>3- or 4-pole</b>							
<b>Front connecting bars</b>							
Phase barriers included.							
Standard							
 NSE0_00702a 3VL9 .00-4EC40	1 set = 3 units	3-pole	A	<b>3VL9 800-4EC30</b>	1	1 unit	113 3.313 <sup>1)</sup>
	1 set = 4 units	4-pole	A	<b>3VL9 800-4EC40</b>	1	1 unit	113 4.438 <sup>1)</sup>
For increased pole spacing							
 NSE0_00722 3VL9 .00-4ED40	1 set = 3 units	3-pole	--				
	1 set = 4 units	4-pole	--				
<b>Rear terminals</b>							
Short terminal (1 unit)							
Long terminal (1 unit)							
Terminal kit (2 short + 1 long)							
 NSE0_00723 3VL9 .00-4RA00, 3VL9 .00-4RB00		3-pole	--				
		4-pole	--				
Short flat connector (1 unit)							
Long flat connector (1 unit)							
 NSE0_00724 3VL9 .00-4RK00, 3VL9 .00-4RL00		3-pole	--				
		4-pole	--				
Flat connector kit (2 short + 1 long)							
Flat connector kit (2 short + 2 long)							
 NSE0_00725 3VL9 .00-4RG00		4-pole	--				
		4-pole	A	<b>3VL9 800-4RG00</b>	1	1 unit	113 1.527
Flat connecting bar (1 unit)							
Set = 3 units, 3-pole							
		3-pole	A	<b>3VL9 800-4RH30</b>	1	1 unit	113 4.581
Flat connecting bar							
		4-pole	A	<b>3VL9 800-4RH40</b>	1	1 unit	113 6.108
<b>Box terminals</b>							
For connection for flexible flat copper busbar or cable, see <a href="http://www.Siemens.com/lowvoltage/support">Technical Information at www.Siemens.com/lowvoltage/support</a> .							
 NSE0_00700a 3VL9 .00-4TC.0	1 set = 3 units		--				
	1 set = 4 units		--				
<b>Multiple feed-in terminals</b>							
Only for cables (Al or Cu)							
Aluminum terminal (tinned)							
 NSE0_01544 3VL9 .00-4TG.0	1 set = 3 units		--				
	1 set = 4 units		--				
<b>Auxiliary conductor terminals</b>							
For box terminals/aluminum terminals							
<b>Terminals with screw connection - metric thread</b>							
With insulator (for rear) for use with busbars and cable lugs, see <a href="http://www.siemens.com/lowvoltage/support">Technical Information at www.siemens.com/lowvoltage/support</a> .							
 NSE0_00701a 3VL9 .00-4TA.0	1 set = 3 units		A	<b>3VL9 800-4TA30</b>	1	1 unit	113 0.319
	1 set = 4 units		A	<b>3VL9 800-4TA40</b>	1	1 unit	113 0.426
<b>Terminal covers for circuit breakers</b>							
Degree of protection IP30 for main connections							
1 set = 2 units							
 NSE0_00730 3VL9 .00-3CB.0	Extended	3-pole	A	<b>3VL9 800-8CA30</b>	1	1 unit	113 1.060
	Standard	3-pole	A	<b>3VL9 800-8CB30</b>	1	1 unit	113 0.360
	Extended	4-pole	A	<b>3VL9 800-8CA40</b>	1	1 unit	113 1.326
 NSE0_00731 3VL9 .00-8CE00	Standard	4-pole	A	<b>3VL9 800-8CB40</b>	1	1 unit	113 0.470
<b>Phase barriers for fixed-mounted circuit breakers</b>							
	1 set = 2 units		A	<b>3VL9 800-8CE00</b>	1	1 unit	113 0.130

<sup>1)</sup> In scope of supply of circuit breaker.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

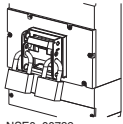
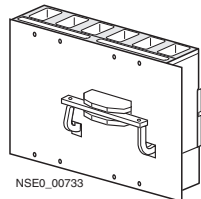
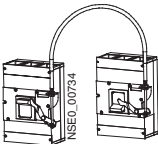

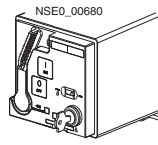
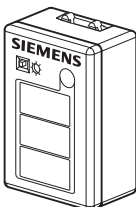
Version	DT	For VL160X (3VL1) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<b>3- or 4-pole</b>							
 NSE0_00732 3VL9 .00-3HL00		<b>Locking devices for toggle levers</b> For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)	A	<b>3VL9 300-3HL00</b>	1	1 unit	113 0.052
 NSE0_00733 3VL9 .00-8L.00		<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply)	A	<b>3VL9 300-8LC00</b>	1	1 unit	113 0.215
	A	Fixed-mounted circuit breakers		<b>3VL9 300-8LD00</b>	1	1 unit	113 0.223
	A	Plug-in/withdrawable circuit breakers					
 NSE0_00734 3VL9 .00-8LA00		<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker	A	<b>3VL9 300-8LA00</b>	1	1 unit	113 0.174
	A	<b>Bowden wires for Bowden wire interlocking<sup>1)</sup></b> Wire length 0.5 m		<b>3VL9 000-8LH10</b>	1	1 unit	113 0.206
	A	Wire length 1.0 m		<b>3VL9 000-8LH20</b>	1	1 unit	113 0.298
	A	Wire length 1.5 m		<b>3VL9 000-8LH30</b>	1	1 unit	113 0.412
 NSE0_00680 3VL9 ...-8HA00		<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Lock types	A	<b>3VL9 715-8HA00</b>	1	1 unit	113 0.309
		Ronis					
		<u>For motorized operating mechanism with stored energy mechanism</u> Lock types		--			
	A	Ronis					
	A	Filli Giussani		<b>3VL9 321-8HA00</b>	1	1 unit	113 0.053
	A	<b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface					
	A	Set with 4 screws		<b>3VL9 300-8SA40</b>	1	1 unit	113 0.030
 NSE0_01531a 3VL9 000-8AP01		<b>Transparent covers for overcurrent releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic releases					
		Thermal-magnetic	A	<b>3VL9 300-8BM00</b>	1	1 unit	113 0.015
		<b>Battery power supply for activating/parameterizing the LCD ETU release, with test function for all IEC and UL ETUs.</b> (two 9 V blocks are required in addition)		--			

<sup>1)</sup> Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism!

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL160 (3VL2) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<b>3- or 4-pole</b>							
 NSE0_00732 3VL9...00-3HL00		<b>Locking devices for toggle levers</b> For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)	A	<b>3VL9 300-3HL00</b>	1	1 unit	113 0.052
 NSE0_00733 3VL9...00-8L...00		<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply)	A	<b>3VL9 300-8LC00</b>	1	1 unit	113 0.215
	A	Fixed-mounted circuit breakers Plug-in/withdrawable circuit breakers	A	<b>3VL9 300-8LD00</b>	1	1 unit	113 0.223
 NSE0_00734 3VL9...00-8LA00		<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker	A	<b>3VL9 300-8LA00</b>	1	1 unit	113 0.174
		Combinations with next size up/down possible (see Order No.)					
 NSE0_00734 3VL9...00-8LH00		<b>Bowden wires for Bowden wire interlocking<sup>1)</sup></b>					
	A	Wire length 0.5 m	A	<b>3VL9 000-8LH10</b>	1	1 unit	113 0.206
	A	Wire length 1.0 m	A	<b>3VL9 000-8LH20</b>	1	1 unit	113 0.298
	A	Wire length 1.5 m	A	<b>3VL9 000-8LH30</b>	1	1 unit	113 0.412
 NSE0_00680 3VL9...-8HA00		<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Lock types	A	<b>3VL9 715-8HA00</b>	1	1 unit	113 0.309
		<u>For motorized operating mechanism with stored energy mechanism</u> Lock types	--				
	A	Ronis Filli Giussani	A	<b>3VL9 321-8HA00</b>	1	1 unit	113 0.053
	A	<b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface	A	<b>3VL9 300-8SA40</b>	1	1 unit	113 0.030
	A	Set with 4 screws	A	<b>3VL9 300-8SA40</b>	1	1 unit	113 0.030
 NSE0_01531a 3VL9 000-8AP01		<b>Transparent covers for overcurrent releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)	A	<b>3VL9 700-8BL00</b>	1	1 unit	113 0.002
	A	Electronic releases	A	<b>3VL9 300-8BM00</b>	1	1 unit	113 0.015
	A	Thermal-magnetic	A	<b>3VL9 300-8BM00</b>	1	1 unit	113 0.015
	B	<b>Battery power supply for activating/parameterizing the LCD ETU release, with test function for all IEC and UL ETUs</b> (two 9 V blocks are required in addition)	B	<b>3VL9 000-8AP01</b>	1	1 unit	113 0.605

<sup>1)</sup> Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism!

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

DT	For VL250 (3VL3) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL400 (3VL4) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A	<b>3VL9 300-3HL00</b>		1	1 unit	113	0.052	A	<b>3VL9 400-3HL00</b>		1	1 unit	113	0.122
A	<b>3VL9 300-8LC00</b>		1	1 unit	113	0.215	A	<b>3VL9 400-8LC00</b>		1	1 unit	113	0.386
A	<b>3VL9 300-8LD00</b>		1	1 unit	113	0.223	A	<b>3VL9 400-8LD00</b>		1	1 unit	113	0.436
A	<b>3VL9 300-8LA00</b>		1	1 unit	113	0.174	A	<b>3VL9 400-8LA00</b>		1	1 unit	113	0.196
A	<b>3VL9 000-8LH10</b>		1	1 unit	113	0.206	--						
A	<b>3VL9 000-8LH20</b>		1	1 unit	113	0.298	A	<b>3VL9 000-8LH20</b>		1	1 unit	113	0.298
A	<b>3VL9 000-8LH30</b>		1	1 unit	113	0.412	A	<b>3VL9 000-8LH30</b>		1	1 unit	113	0.412
A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309	A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309
--							A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309
A	<b>3VL9 321-8HA00</b>		1	1 unit	113	0.053	--						
A	<b>3VL9 300-8SA40</b>		1	1 unit	113	0.030	A	<b>3VL9 500-8SA40</b>		1	1 unit	113	0.090
A	<b>3VL9 700-8BL00</b>		1	1 unit	113	0.002	A	<b>3VL9 700-8BL00</b>		1	1 unit	113	0.002
A	<b>3VL9 300-8BM00</b>		1	1 unit	113	0.015	A	<b>3VL9 400-8BM00</b>		1	1 unit	113	0.017
B	<b>3VL9 000-8AP01</b>		1	1 unit	113	0.605	B	<b>3VL9 000-8AP01</b>		1	1 unit	113	0.605

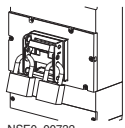
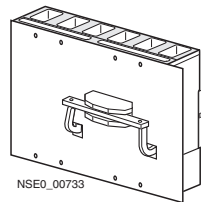
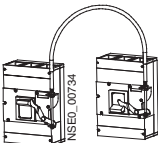

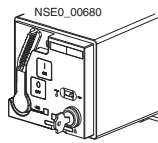
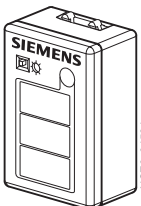
\* You can order this quantity or a multiple thereof.



# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL630 (3VL5) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<i>3- or 4-pole</i>							
 NSE0_00732 3VL9 .00-3HL00		<b>Locking devices for toggle levers</b> For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)					
	A	<b>3VL9 600-3HL00</b>		1	1 unit	113	0.130
 NSE0_00733 3VL9 .00-8L.00		<b>Rear interlocking modules</b> For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply) Fixed-mounted circuit breakers Plug-in/withdrawable circuit breakers					
	A	<b>3VL9 600-8LC00</b>		1	1 unit	113	1.499
	A	<b>3VL9 600-8LD00</b>		1	1 unit	113	5.076
 NSE0_00734 3VL9 .00-8LA00		<b>Interlocking modules for Bowden wire interlocking<sup>1)</sup></b> For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker					
	A	<b>3VL9 600-8LA00</b>		1	1 unit	113	0.244
		Combinations with next size up/down possible (see Order No.)					
 NSE0_00734 3VL9 .00-8LA00		<b>Bowden wires</b> for Bowden wire interlocking <sup>1)</sup> Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m					
		--					
	A	<b>3VL9 000-8LH20</b>		1	1 unit	113	0.298
	A	<b>3VL9 000-8LH30</b>		1	1 unit	113	0.412
 NSE0_00680 3VL9 ...-8HA00		<b>Safety lock assembly kits</b> Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms Lock types Ronis For motorized operating mechanism with stored energy mechanism Lock types Ronis Filli Giussani					
	A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309
	A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309
		--					
 NSE0_01531a 3VL9 000-8AP01		<b>Sets of fixing screws (metric thread)</b> Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws					
	A	<b>3VL9 500-8SA40</b>		1	1 unit	113	0.090
		<b>Transparent covers for overcurrent releases, sealable</b> To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic releases Thermal-magnetic					
	A	<b>3VL9 700-8BL00</b>		1	1 unit	113	0.002
	A	<b>3VL9 600-8BM00</b>		1	1 unit	113	0.019
	B	<b>Battery power supply for activating/parameterizing the LCD ETU release, with test function for all IEC and UL ETUs</b> (two 9 V blocks are required in addition)					
		<b>3VL9 000-8AP01</b>		1	1 unit	113	0.605

<sup>1)</sup> Two interlocking modules and one Bowden wire are required.  
Cannot be used in conjunction with motorized operating mechanism.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

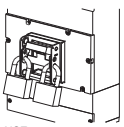
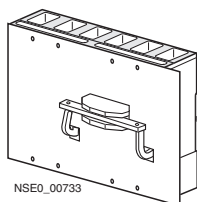
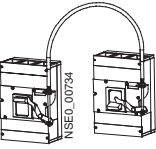
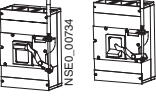
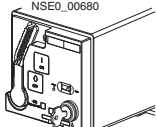
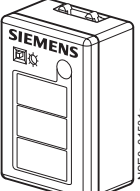
DT	For VL800 (3VL6) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	DT	For VL1250 (3VL7) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
A	<b>3VL9 600-3HL00</b>		1	1 unit	113	0.130	A	<b>3VL9 800-3HL00</b>		1	1 unit	113	0.238
A	<b>3VL9 600-8LC00</b>		1	1 unit	113	1.499	A	<b>3VL9 800-8LC00</b>		1	1 unit	113	2.935
A	<b>3VL9 600-8LD00</b>		1	1 unit	113	5.076	A	<b>3VL9 800-8LD00</b>		1	1 unit	113	3.825
A	<b>3VL9 600-8LA00</b>		1	1 unit	113	0.244	A	<b>3VL9 800-8LA00</b>		1	1 unit	113	0.283
A	-- <b>3VL9 000-8LH20</b>		1	1 unit	113	0.298	A	-- <b>3VL9 000-8LH30</b>		1	1 unit	113	0.412
A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309	A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309
A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309	A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309
A	<b>3VL9 600-8SA40</b>		1	1 unit	113	0.090	A	<b>3VL9 800-8SA40</b>		1	1 unit	113	0.090
A	<b>3VL9 700-8BL00</b>		1	1 unit	113	0.002	A	<b>3VL9 700-8BL00</b>		1	1 unit	113	0.002
B	<b>3VL9 000-8AP01</b>		1	1 unit	113	0.605	B	<b>3VL9 000-8AP01</b>		1	1 unit	113	0.605

\* You can order this quantity or a multiple thereof.

# SENTRON 3VL Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A

### Accessories and spare parts

Version	DT	For VL1600 (3VL8) Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Interlocks</b>							
<b>3- or 4-pole</b>							
<b>Locking devices for toggle levers</b>							
For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5–8 mm can be used. Removable (padlocks not included)							
 NSE0_00732 3VL9 .00-3HL00	A	<b>3VL9 800-3HL00</b>		1	1 unit	113	0.238
<b>Rear interlocking modules</b>							
For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size.							
Circuit breakers, fixed-mounted <sup>1)</sup>							
 NSE0_00733 3VL9 .00-8L.00	A	<b>3VL9 800-8LC00</b>		1	1 unit	113	2.935
Plug-in/withdrawable circuit breakers							
	A	<b>3VL9 800-8LD00</b>		1	1 unit	113	3.825
<b>Interlocking modules for Bowden wire interlocking<sup>2)</sup></b>							
For the mechanical interlocking of two circuit breakers.							
Interlocking module for one circuit breaker							
 NSE0_00734 3VL9 .00-8LA00	A	<b>3VL9 800-8LA00</b>		1	1 unit	113	0.283
<b>Bowden wires for Bowden wire interlocking<sup>2)</sup></b>							
Wire length 0.5 m							
		--					
Wire length 1.0 m							
		--					
Wire length 1.5 m							
 NSE0_00734 3VL9 .00-8LA00	A	<b>3VL9 000-8LH30</b>		1	1 unit	113	0.412
<b>Safety lock assembly kits</b>							
Key can be removed with the circuit breaker in the "OFF" position							
For front-operated rotary operating mechanisms							
Lock types							
Ronis							
 NSE0_00680 3VL9 ...-8HA00	A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309
For motorized operating mechanisms							
Lock types							
Ronis							
	A	<b>3VL9 715-8HA00</b>		1	1 unit	113	0.309
Filli Giussani							
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<b>Sets of fixing screws (metric thread)</b>							
Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface							
Set with 4 screws							
	A	<b>3VL9 800-8SA40</b>		1	1 unit	113	0.090
<b>Transparent covers for overcurrent releases, sealable</b>							
To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)							
Electronic releases							
 NSE0_01511a 3VL9 000-8AP01	A	<b>3VL9 700-8BL00</b>		1	1 unit	113	0.002
Thermal-magnetic							
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<b>Battery power supply for activating/parameterizing the LCD ETU release, with test function for all IEC and UL ETUs (two 9 V blocks are required in addition)</b>							
	B	<b>3VL9 000-8AP01</b>		1	1 unit	113	0.605

1) Mounting plate not included in scope of supply.

2) Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism.