

Molded Case Circuit Breakers



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

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3-pole

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4-pole

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Options

Accessories and spare parts

Ch. 12

**3KC ATC5300
transfer control devices**
**For further technical
product information:**
Service&Support portal:
[www.siemens.com/lowvoltage/
technical-support](http://www.siemens.com/lowvoltage/technical-support)

 → Product list:
Technical specifications

 → Entry list:
Updates / Downloads / FAQs /
Manuals / Operating instructions /
Characteristic curves / Certificates

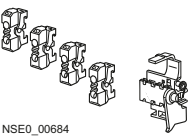
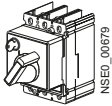
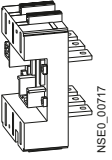
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Overview

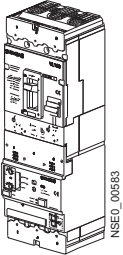
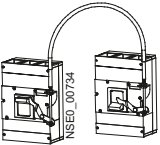
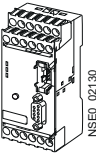
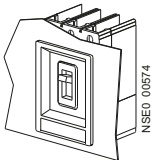
Devices	Page	Applications/ Individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	2/12 ... 2/27, 2/36 ... 2/53	The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
		The overload and short-circuit releases can be used for optimized protection of generators.				
	2/28 ... 2/31	Circuit breakers for motor protection are specifically designed for the characteristic curve of the motor, and have additional functions such as phase failure detection and adjustable trip class.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
	2/32, 2/33	Starter combinations consist of: Motor starter protector + contactor + overload relay. The motor starter protector provides short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay provides overload protection, which is specifically designed for the motor.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
	2/32, 2/33, 2/54, 2/55	These circuit breakers are used as feeder circuit breakers, main control switches or disconnectors without overload protection. They have fixed short-circuit releases.	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. Isolating features according to IEC 60947-2 and EN 60947-2.	✓	✓	✓
 NSE0_00684	2/61, 2/62	Auxiliary switches, alarm switches, undervoltage releases and shunt releases	As for circuit breakers	✓	✓	✓
 NSE0_00679	2/64 ... 2/71	The manual operating mechanisms are available in two versions: • Front-operated rotary operating mechanisms, • Door-coupling rotary operating mechanisms In the case of the motorized operating mechanisms there are also two versions: • MO for standard applications • SEO for network synchronization tasks	As for circuit breakers	✓	✓	✓
 NSE0_00717	2/72 ... 2/77	Assembly in plug-in and withdrawable versions allows the 3VL molded case circuit breaker to be replaced quickly without accessing the terminals.	As for circuit breakers	✓	✓	✓

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Devices	Page	Applications/ Individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 NSE0_00583	2/78	Protection of plant and personnel against damage or injury caused by residual currents and insulation faults.	As for circuit breakers	✓	✓	✓
 NSE0_00702	2/79 ... 2/84	Front connecting bars, rear terminals, box terminals, circular conductor terminals, multiple feed-in terminals, auxiliary conductor terminals, terminal plates, connections with screw terminals, terminal covers for circuit breakers, phase barriers for circuit breakers	As for circuit breakers	✓	✓	✓
 NSE0_00734	2/85 ... 2/90	Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden wire interlocking	As for circuit breakers	✓	✓	✓
	2/91, 2/92	Busbar adapters	As for circuit breakers	✓	✓	✓
 NSE0_02130	2/93	Data transmission through COM20, COM21: COM20 (PROFIBUS) for releases with communication function, COM21 (MODBUS) for releases with communication function, powerconfig parameterization software	As for circuit breakers	✓	✓	✓
 NSE0_00574	2/94 ... 2/97	Masking frames (cover frames) for door cutouts, to increase degree of protection	As for circuit breakers	✓	✓	✓

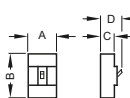
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Type		VL160X/3VL1	VL160/3VL2	VL250/3VL3	VL400/3VL4					
Molded case circuit breakers										
3VL molded case circuit breakers up to 1600 A										
Rated current I_n at 50 °C ambient temperature	A	16 ... 160		50 ... 160		200 ... 250		200 ... 400		
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 ¹⁾	V	500	500	600	600	600	600	600	600	
Overcurrent releases										
Thermal-magnetic		✓	✓	✓	✓	✓	✓	✓	✓	
Electronic LCD ETU/ETU		--	--	✓	✓	✓	✓	✓	✓	
PROFIBUS module COM20		--	--	✓	✓	✓	✓	✓	✓	
Dimensions										
	A	mm	105	139	105	139	105	139	139	183
	B	mm	157	157	175	175	175	175	279	279
	C	mm	81	81	81	81	81	81	102	102
	D	mm	107	107	107	107	107	107	138	138
Breaking capacity I_{cu}/I_{cs} RMS value according to IEC 60947-2										
Standard breaking capacity N ²⁾										
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 ³⁾		12/6		12/6		15/8		
Up to 250 V DC ⁴⁾	kA	30/30		32/32		32/32		32/32		
Up to 500 V DC ⁴⁾	kA	--		--		--		--		
Up to 600 V DC ⁴⁾	kA	--		--		--		--		
NEMA breaking capacity ⁵⁾										
Up to 480 V AC	kA	25		25		25		35		
Up to 600 V AC	kA	8 ³⁾		12		12		20		
High breaking capacity H ²⁾										
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 ³⁾		12/6		12/6		15/8		
Up to 250 V DC ⁴⁾	kA	30/30		32/32		32/32		32/32		
Up to 500 V DC ⁴⁾	kA	30/30		32/32		32/32		32/32		
Up to 600 V DC ⁴⁾	kA	--		--		--		--		
NEMA breaking capacity ⁵⁾										
Up to 480 V AC	kA	42		50		50		50		
Up to 600 V AC	kA	12 ³⁾		12		12		20		
Very high breaking capacity L ²⁾										
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 ⁴⁾	kA	--		32/32		32/32		32/32		
Up to 500 V DC ⁴⁾	kA	--		32/32		32/32		32/32		
Up to 600 V DC ⁴⁾	kA	--		32/32		32/32		32/32		
NEMA breaking capacity ⁵⁾										
Up to 480 V AC	kA	--		75		75		75		
Up to 600 V AC	kA	--		12		12		20		

✓ Available
-- Not available

¹⁾ Rated DC voltage applies only for circuit breakers with thermal-magnetic release.

For 3VL molded case circuit breakers according to UL 489
see [Catalog LV16](#).

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VL630/3VL5

VL800/3VL6

VL1250/3VL7

VL1600/3VL8

ATC5300

3VL molded case circuit breakers up to 1600 A**Transfer control devices****3KC ATC5300 transfer control devices**

see chapter "Monitoring devices".

315 ... 630

800

1000 ... 1250

1600

3

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²⁾ 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.

³⁾ Rated current $I_n \geq$ at 25 A.

⁴⁾ 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; time constant $t = 15$ ms.

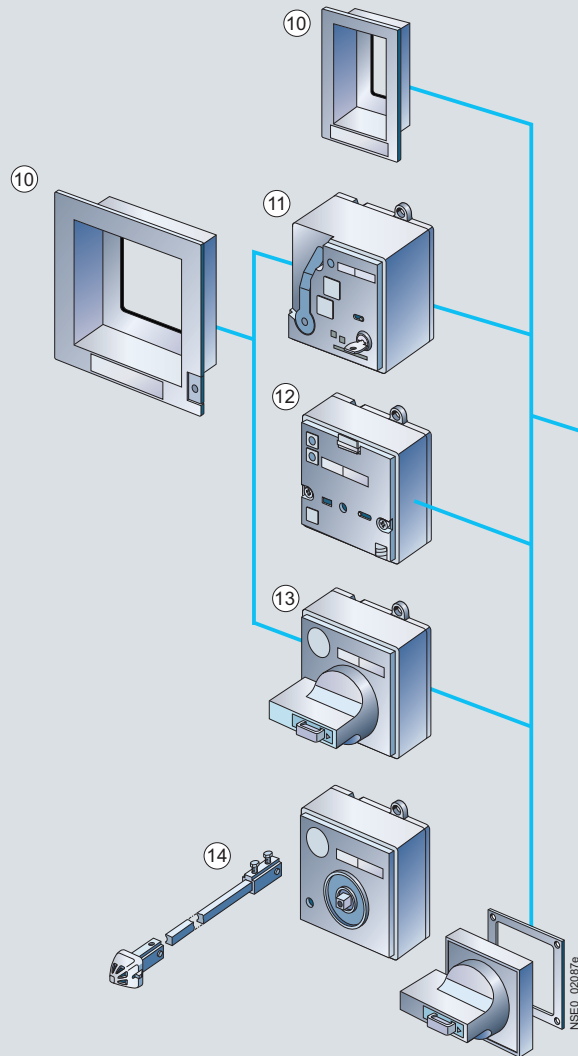
⁵⁾ The NEMA breaking capacity can be found on the rating plate of each IEC circuit breaker.

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- ① Withdrawable/plug-in bases ([pages 2/72 to 2/77](#))
- ② Side walls of withdrawable unit ([pages 2/72 to 2/77](#))
- ③ Phase barriers ([pages 2/79 to 2/84](#))
- ④ Flared front busbar connecting bars ([pages 2/79 to 2/84](#))
- ⑤ Straight connecting bars ([pages 2/79 to 2/84](#))
- ⑥ Circular conductor terminals for Al/Cu ([pages 2/79 to 2/81](#))
- ⑦ Box terminals for Cu ([pages 2/79 to 2/84](#))
- ⑧ Extended connection covers (terminal covers) ([pages 2/79 to 2/84](#))
- ⑨ Standard connection covers ([pages 2/79 to 2/84](#))
- ⑩ Masking frames/cover frames for door cutout ([pages 2/94 to 2/97](#))
- ⑪ Motorized operating mechanisms with stored energy mechanism (SEO) ([page 2/68](#))
- ⑫ Motorized operating mechanism (MO) ([page 2/68](#))
- ⑬ Front-operated rotary operating mechanisms ([pages 2/64 to 2/67](#))
- ⑭ Door-coupling rotary operating mechanisms ([pages 2/64 to 2/67](#))
- ⑮ 3VL molded case circuit breakers ([pages 2/12 to 2/55](#))
- ⑯ Internal accessories ([pages 2/59, 2/60, 2/61 to 2/63](#))
- ⑰ Electronic Trip Units LCD ETU ([pages 2/22, 2/26, 2/30, 2/46 and 2/48](#))
- ⑱ Electronic Trip Units with communication function ([pages 2/14 to 2/30 and 2/42 to 2/52](#))
- ⑲ Thermal/magnetic overcurrent releases ([pages 2/12 to 2/14, 2/32, 2/36 to 2/40, 2/54](#))
- ⑳ RCD modules ([page 2/78](#))
- ㉑ Rear terminals – flat and round ([pages 2/79 to 2/84](#))
- ㉒ COM20/21 communication modules to the PROFIBUS DP/MODBUS ([page 2/93](#))
- ㉓ Battery power supplies with test function for Electronic Trip Units ([pages 2/86 to 2/90](#))



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Benefits

- The compact design of the 3VL molded case 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 1,600 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 2/14 to 2/30, 2/42 to 2/52](#).
- For accessories, [see page 2/93](#).
- For more information [see also chapters "Measuring Devices and Power Monitoring" and "Software"](#).

Applications

The different versions of 3VL molded case 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 3VL molded case 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 Trip Units 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 motor starter protectors, overload relays and motor contactors. These circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
4. As non-automatic air 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 back-up fuses.

Breaking capacity

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

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

Standards and specifications

3VL molded case circuit breakers comply with:

IEC 60947-1, EN 60947-1,
IEC 60947-2, EN 60947-2.

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

Disconnecting features (main control switches) according to EN 60204-1.

The 3VL molded case 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 Trip Units of the circuit breakers for motor protection also fulfill IEC 60947-4-1.

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

The 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 3VL molded case 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).

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RCD modules

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

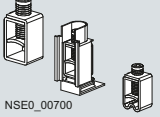
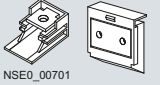
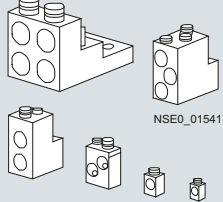
The combination of 3VL molded case circuit breaker and RCD module can be fed from the top or bottom.

All 3VL molded case 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 according to EN 60947-2).

Main connections, basic equipment and options

 NSE0_00700	 NSE0_00701	 NSE0_00702	 NSE0_01541
Box terminal (for copper cables or solid/ flexible busbars)	Connection with screw terminal (avail- able with direct cable lug connection on VL160X, VL160, VL250, VL400)	Connection to front busbar connecting bars (screw terminal required)	Circular conductor terminals multiple feed-in terminal (for Al/Cu terminal)

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

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

○ Scope of supply

☐ Optional scope of supply

x Available

-- Not available

¹⁾ Connecting terminal plate for flexible busbar; not for 690 V AC/600 V DC.

²⁾ Multiple feed-in terminal

³⁾ 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
Conductor cross-sections										
Box terminals ¹⁾										
• Solid or stranded cable • Finely stranded with end sleeve • Flexible busbar	Copper only	mm ²	2.5 ... 95	2.5 ... 95	25 ... 185	50 ... 300	--	--	--	--
		mm ²	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 ²⁾		mm	--	--	--	2 units 10 × 32	--	--	--	
Circular conductor terminal for cable ¹⁾										
• Solid or stranded cable - with terminal cover • Finely stranded with end sleeve	Cu or Al Cu or Al	mm ²	16 ... 70	16 ... 70	25 ... 185	50 ... 300	--	--	--	--
		mm ²	16 ... 150	16 ... 150	120 ... 240	--	--	--	--	--
		mm ²	10 ... 50	10 ... 50	25 ... 120	50 ... 240	--	--	--	--
Multiple feed-in terminal ¹⁾										
• Solid or stranded cable - with terminal cover • Finely stranded with end sleeve • Direct connection of busbars • Screw for connection with screw terminal	Cu or Al Cu or Al	mm ²	--	--	--	2 units 50 ... 120	2 units 50 ... 240	3 units 50 ... 240	4 units 50 ... 240	--
		mm ²	--	--	--	2 units 70 ... 300	--	--	--	--
		mm ²	--	--	--	2 units 50 ... 95	2 units 50 ... 185	3 units 50 ... 185	4 units 50 ... 185	--
		mm	17 × 7 M6	22 × 7 M6	24 × 7 M8	32 × 10 M8	40 × 10 M6	2 × 40 × 10 M8	2 × 50 × 10 M8	3 × 60 × 10 --
Conductor cross-sections for control circuits with terminal connection										
Screw terminals										
• Solid • Finely stranded with end sleeve		mm ²	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	0.75 ... 1.5
		mm ²	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	0.75 ... 1.0
For details see Mounting Instruction .										

¹⁾ Cross-sections according to IEC 60999.

²⁾ Not for 690 V AC/600 V DC.

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VL160 to VL1600 Electronic Trip Units – Functional overview

Order No. supplement	Releases	System protection	System/generator protection	Motor protection	Starter protection	Non-automatic circuit breakers	Function	Setting options					
								L	S ¹⁾		I ¹⁾	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) $I_l = \times I_n$	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 ²⁾	✓	--	--	--	--	LI	1	--	--	9 ... 18 ⁴⁾	--	--
DD	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	9 ... 18 ⁴⁾	--	--
DC	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--
EH	TM ²⁾	✓	--	--	--	--	LI	1	--	--	9 ... 18 ⁴⁾	--	--
EJ	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--
EA/EL	TM ²⁾	✓	--	--	--	--	LIN	1	--	--	9 ... 18 ⁴⁾	--	--
EC	TM ²⁾	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--
EM	TM ²⁾	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--
SP	ETU10M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
MP	ETU10M ³⁾	--	--	✓	--	--	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	--	--
LB	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	--	--
LA	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	--	--
LE	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	--	--
LF	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 ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
MS	ETU30M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
LS	ETU30M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
UP	LCD ETU40M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
UH	LCD ETU40	--	✓	--	--	--	LI, LS, LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--
UJ	LCD ETU40	--	✓	--	--	--	LI, LSI, LIN, LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--
UL	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5
UM	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5
UN	LCD ETU42	--	✓	--	--	--	LSIG, LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5

✓ Function is available.

-- Function not available

1) Size dependent.

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

4) Non-adjustable.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Introduction

2

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

Ground-fault protection

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

✓ Function is available.

-- Function not available

¹⁾ Size dependent.

²⁾ TM up to $I_n = 630$ A.

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

⁴⁾ With COM20/COM21.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

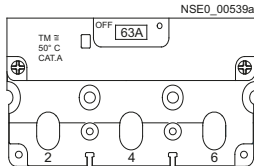
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3-pole

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 breaking capacity N See "Overview".					(N)
	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
					Order No. supplement required, see page 2/58					kg

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



System protection, TM, LI function

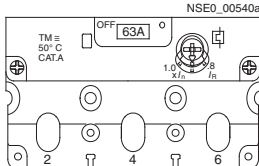
With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases

VL160X/3VL1	16	16	300	3VL17 96-1DA3□-□□□□	1	1 unit	113	1.900
	20	20	300	3VL17 02-1DA3□-□□□□	1	1 unit	113	1.900
	25	25	300	3VL17 25-1DA3□-□□□□	1	1 unit	113	2.000
	32	32	300	3VL17 03-1DA3□-□□□□	1	1 unit	113	2.000
	40	40	600	3VL17 04-1DA3□-□□□□	1	1 unit	113	2.000
	50	50	600	3VL17 05-1DA3□-□□□□	1	1 unit	113	2.000
	63	63	600	3VL17 06-1DA3□-□□□□	1	1 unit	113	2.000
	80	80	1000	3VL17 08-1DA3□-□□□□	1	1 unit	113	2.000
	100	100	1000	3VL17 10-1DA3□-□□□□	1	1 unit	113	2.000
	125	125	1000	3VL17 12-1DA3□-□□□□	1	1 unit	113	2.000
	160	160	1500	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
- Connection with flat screw terminal not in conjunction with RCD module

3
6



System protection, TM, LI function

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

VL160X/3VL1	20	16 ... 20	300	3VL17 02-1DD3□-□□□□	1	1 unit	113	1.900
	32	25 ... 32	300	3VL17 03-1DD3□-□□□□	1	1 unit	113	2.000
	40	32 ... 40	600	3VL17 04-1DD3□-□□□□	1	1 unit	113	2.000
	50	40 ... 50	600	3VL17 05-1DD3□-□□□□	1	1 unit	113	2.000
	63	50 ... 63	600	3VL17 06-1DD3□-□□□□	1	1 unit	113	2.000
	80	63 ... 80	1000	3VL17 08-1DD3□-□□□□	1	1 unit	113	2.000
	100	80 ... 100	1000	3VL17 10-1DD3□-□□□□	1	1 unit	113	2.000
	125	100 ... 125	1000	3VL17 12-1DD3□-□□□□	1	1 unit	113	2.000
	160	125 ... 160	1500	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
- Connection with flat screw terminal not in conjunction with RCD module

3
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Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H						(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L						(L)
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg			Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
	Order No. supplement required, see page 2/58								Order No. supplement required, see page 2/58						

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

3
6

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

3
6

Molded Case Circuit Breakers

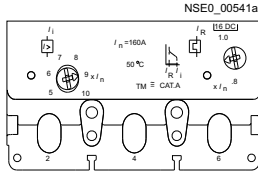
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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 breaking capacity N See "Overview".					(N)
	A	A	A		Order No.	Basic price per PU/ Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
					Order No. supplement required, see page 2/58					

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

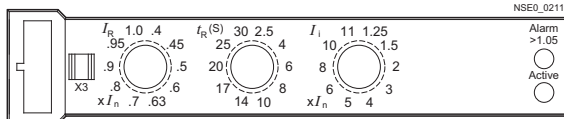
Connection type can be selected by assignment of the 12th position of the Order No.

- Connection with box terminal
- Connection with flat screw terminal

3
6

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

3-pole, fixed-mounted, for system protection, 63 A to 1600 A, Electronic Trip Units LI



ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases

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

3
6

VL400/3VL4	315	128 ... 315	1.25 ... 11 × I_n	3VL47 31-1□□36-□□□□	1	1 unit	113	5.900
	400	160 ... 400	1.25 ... 11 × I_n	3VL47 40-1□□36-□□□□	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	3VL57 63-1□□36-□□□□	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	3VL67 80-1□□36-□□□□	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	3VL77 10-1□□36-□□□□	1	1 unit	113	25.000
	1250	500 ... 1250	1.25 ... 11 × I_n	3VL77 12-1□□36-□□□□	1	1 unit	113	25.000
VL1600/3VL8 ¹⁾	1600	640 ... 1600	1.25 ... 9 × I_n	3VL87 16-1□□30-□□□□	1	1 unit	113	31.300

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

SB
MB
LB

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

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT I_{cu} up to 70 kA at 415 V, high breaking capacity H						DT I_{cu} up to 100 kA at 415 V, very high breaking capacity L					
Order No.	Basic price per PU/ Price see page 2/34	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	Order No.	Basic price per PU/ Price see page 2/34	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Order No. supplement required, see page 2/58						Order No. supplement required, see page 2/58					
3VL27 05-2DC3□-□□□□						3VL27 05-3DC3□-□□□□					
3VL27 06-2DC3□-□□□□		1	1 unit	113	2.200	3VL27 06-3DC3□-□□□□		1	1 unit	113	2.200
3VL27 08-2DC3□-□□□□		1	1 unit	113	2.200	3VL27 08-3DC3□-□□□□		1	1 unit	113	2.200
3VL27 10-2DC3□-□□□□		1	1 unit	113	2.200	3VL27 10-3DC3□-□□□□		1	1 unit	113	2.200
3VL27 12-2DC3□-□□□□		1	1 unit	113	2.200	3VL27 12-3DC3□-□□□□		1	1 unit	113	2.200
3VL27 16-2DC3□-□□□□		1	1 unit	113	2.200	3VL27 16-3DC3□-□□□□		1	1 unit	113	2.200
3VL37 20-2DC3□-□□□□		1	1 unit	113	2.300	3VL37 20-3DC3□-□□□□		1	1 unit	113	2.300
3VL37 25-2DC3□-□□□□		1	1 unit	113	2.300	3VL37 25-3DC3□-□□□□		1	1 unit	113	2.300
3						3					
6						6					
3VL47 20-2DC36-□□□□		1	1 unit	113	5.700	3VL47 20-3DC36-□□□□		1	1 unit	113	5.700
3VL47 25-2DC36-□□□□		1	1 unit	113	5.700	3VL47 25-3DC36-□□□□		1	1 unit	113	5.700
3VL47 31-2DC36-□□□□		1	1 unit	113	5.700	3VL47 31-3DC36-□□□□		1	1 unit	113	5.700
3VL47 40-2DC36-□□□□		1	1 unit	113	5.700	3VL47 40-3DC36-□□□□		1	1 unit	113	5.700
3VL57 31-2DC36-□□□□		1	1 unit	113	9.000	3VL57 31-3DC36-□□□□		1	1 unit	113	9.000
3VL57 40-2DC36-□□□□		1	1 unit	113	9.000	3VL57 40-3DC36-□□□□		1	1 unit	113	9.000
3VL57 50-2DC36-□□□□		1	1 unit	113	9.000	3VL57 50-3DC36-□□□□		1	1 unit	113	9.000
3VL57 63-2DC36-□□□□		1	1 unit	113	9.000	3VL57 63-3DC36-□□□□		1	1 unit	113	9.000
3						3					
6						6					
3VL27 06-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 06-3□□3□-□□□□		1	1 unit	113	2.400
3VL27 10-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 10-3□□3□-□□□□		1	1 unit	113	2.400
3VL27 16-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 16-3□□3□-□□□□		1	1 unit	113	2.400
3VL37 20-2□□3□-□□□□		1	1 unit	113	2.500	3VL37 20-3□□3□-□□□□		1	1 unit	113	2.500
3VL37 25-2□□3□-□□□□		1	1 unit	113	2.500	3VL37 25-3□□3□-□□□□		1	1 unit	113	2.500
3						3					
6						6					
3VL47 31-2□□36-□□□□		1	1 unit	113	5.900	3VL47 31-3□□36-□□□□		1	1 unit	113	5.900
3VL47 40-2□□36-□□□□		1	1 unit	113	5.900	3VL47 40-3□□36-□□□□		1	1 unit	113	5.900
3VL57 63-2□□36-□□□□		1	1 unit	113	9.300	3VL57 63-3□□36-□□□□		1	1 unit	113	9.300
3VL67 80-2□□36-□□□□		1	1 unit	113	16.000	3VL67 80-3□□36-□□□□		1	1 unit	113	16.000
3VL77 10-2□□36-□□□□		1	1 unit	113	25.000	3VL77 10-3□□36-□□□□		1	1 unit	113	25.000
3VL77 12-2□□36-□□□□		1	1 unit	113	25.000	3VL77 12-3□□36-□□□□		1	1 unit	113	25.000
3VL87 16-2□□30-□□□□		1	1 unit	113	31.300	3VL87 16-3□□30-□□□□		1	1 unit	113	31.300
SB						SB					
MB						MB					
LB						LB					

Molded Case Circuit Breakers

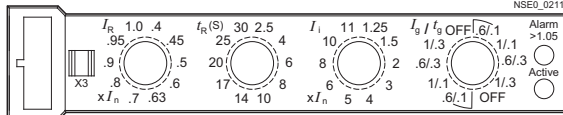
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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 breaking capacity N See "Overview".					(N)
	A	A	A	A		Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
						Order No. supplement required, see page 2/58					kg

3-pole, fixed-mounted, for system protection, 63 A to 1600 A, Electronic Trip Units LIG



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

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

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	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	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	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	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	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

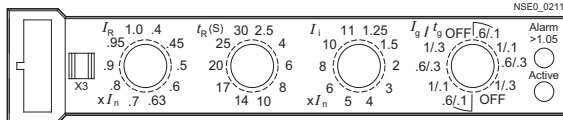
3
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	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	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	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	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	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	3VL77 12-1□□36-□□□□	1	1 unit	113	25,000
VL1600/3VL8 ¹⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$, OFF	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 Trip Units LIG



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

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, external current transformers required in addition, see page 2/92. Ground fault delay $t_g = 0.1 \dots 0.3$ s, ground fault function (G) can be switched off.

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	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	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	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	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	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	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	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	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	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	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	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	3VL77 12-1□□36-□□□□	1	1 unit	113	25,000
VL1600/3VL8 ¹⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL87 16-1□□30-□□□□	1	1 unit	113	31,300

- Without communication preparation
- With communication preparation

SF
MF

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT I_{cu} up to 70 kA at 415 V, high breaking capacity H						DT I_{cu} up to 100 kA at 415 V, very high breaking capacity L					
Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Order No. supplement required, see page 2/58						Order No. supplement required, see page 2/58					
3VL27 06-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 06-3□□3□-□□□□		1	1 unit	113	2.400
3VL27 10-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 10-3□□3□-□□□□		1	1 unit	113	2.400
3VL27 16-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 16-3□□3□-□□□□		1	1 unit	113	2.400
3VL37 20-2□□3□-□□□□		1	1 unit	113	2.500	3VL37 20-3□□3□-□□□□		1	1 unit	113	2.500
3VL37 25-2□□3□-□□□□		1	1 unit	113	2.500	3VL37 25-3□□3□-□□□□		1	1 unit	113	2.500
3 6						3 6					
3VL47 31-2□□36-□□□□		1	1 unit	113	5.900	3VL47 31-3□□36-□□□□		1	1 unit	113	5.900
3VL47 40-2□□36-□□□□		1	1 unit	113	5.900	3VL47 40-3□□36-□□□□		1	1 unit	113	5.900
3VL57 63-2□□36-□□□□		1	1 unit	113	9.300	3VL57 63-3□□36-□□□□		1	1 unit	113	9.300
3VL67 80-2□□36-□□□□		1	1 unit	113	16.000	3VL67 80-3□□36-□□□□		1	1 unit	113	16.000
3VL77 10-2□□36-□□□□		1	1 unit	113	25.000	3VL77 10-3□□36-□□□□		1	1 unit	113	25.000
3VL77 12-2□□36-□□□□		1	1 unit	113	25.000	3VL77 12-3□□36-□□□□		1	1 unit	113	25.000
3VL87 16-2□□30-□□□□		1	1 unit	113	31.300	3VL87 16-3□□30-□□□□		1	1 unit	113	31.300
SL ML						SL ML					
3VL27 06-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 06-3□□3□-□□□□		1	1 unit	113	2.400
3VL27 10-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 10-3□□3□-□□□□		1	1 unit	113	2.400
3VL27 16-2□□3□-□□□□		1	1 unit	113	2.400	3VL27 16-3□□3□-□□□□		1	1 unit	113	2.400
3VL37 20-2□□3□-□□□□		1	1 unit	113	2.500	3VL37 20-3□□3□-□□□□		1	1 unit	113	2.500
3VL37 25-2□□3□-□□□□		1	1 unit	113	2.500	3VL37 25-3□□3□-□□□□		1	1 unit	113	2.500
3 6						3 6					
3VL47 31-2□□36-□□□□		1	1 unit	113	5.900	3VL47 31-3□□36-□□□□		1	1 unit	113	5.900
3VL47 40-2□□36-□□□□		1	1 unit	113	5.900	3VL47 40-3□□36-□□□□		1	1 unit	113	5.900
3VL57 63-2□□36-□□□□		1	1 unit	113	9.300	3VL57 63-3□□36-□□□□		1	1 unit	113	9.300
3VL67 80-2□□36-□□□□		1	1 unit	113	16.000	3VL67 80-3□□36-□□□□		1	1 unit	113	16.000
3VL77 10-2□□36-□□□□		1	1 unit	113	25.000	3VL77 10-3□□36-□□□□		1	1 unit	113	25.000
3VL77 12-2□□36-□□□□		1	1 unit	113	25.000	3VL77 12-3□□36-□□□□		1	1 unit	113	25.000
3VL87 16-2□□30-□□□□		1	1 unit	113	31.300	3VL87 16-3□□30-□□□□		1	1 unit	113	31.300
SF MF						SF MF					

Communication:

• For accessories, see page 2/93.

• For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

* You can order this quantity or a multiple thereof.

Molded Case Circuit Breakers

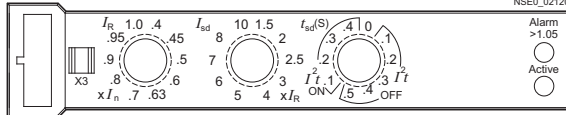
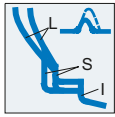
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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	DT	I_{cu} up to 55 kA at 415 V, standard breaking capacity N see "Overview". Order No. Order No. supplement required, see page 2/58 Price see page 2/34					PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	A	A									kg	

3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, Electronic Trip Units 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	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	3VL27 06-1□□3□-□□□□	1	1 unit	113	2.400
	100	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	3VL27 10-1□□3□-□□□□	1	1 unit	113	2.400
	160	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	3VL27 16-1□□3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	3VL37 20-1□□3□-□□□□	1	1 unit	113	2.500
	250	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	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	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	3VL47 31-1□□36-□□□□	1	1 unit	113	5.900
	400	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	3VL47 40-1□□36-□□□□	1	1 unit	113	5.900
VL630/3VL5	630	0.4 ... $1.0 \times I_n$	$10 \times I_n$	1.5 ... $9 \times I_R$	3VL57 63-1□□36-□□□□	1	1 unit	113	9.300
VL800/3VL6	800	0.4 ... $1.0 \times I_n$	$8 \times I_n$	1.5 ... $7 \times I_R$	3VL67 80-1□□36-□□□□	1	1 unit	113	16.000
VL1250/3VL7	1000	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	3VL77 10-1□□36-□□□□	1	1 unit	113	25.000
	1250	0.4 ... $1.0 \times I_n$	$11 \times I_n$	1.5 ... $10 \times I_R$	3VL77 12-1□□36-□□□□	1	1 unit	113	25.000
VL1600/3VL8 ¹⁾	1600	0.4 ... $1.0 \times I_n$	$9 \times I_n$	1.5 ... $8 \times I_R$	3VL87 16-1□□30-□□□□	1	1 unit	113	31.300

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

SE
ME
LE

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

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H						DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					
	Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Order No. supplement required, see page 2/58							Order No. supplement required, see page 2/58					
	3VL27 06-2□□3□-□□□□		1	1 unit	113	2.400		3VL27 06-3□□3□-□□□□		1	1 unit	113	2.400
	3VL27 10-2□□3□-□□□□		1	1 unit	113	2.400		3VL27 10-3□□3□-□□□□		1	1 unit	113	2.400
	3VL27 16-2□□3□-□□□□		1	1 unit	113	2.400		3VL27 16-3□□3□-□□□□		1	1 unit	113	2.400
	3VL37 20-2□□3□-□□□□		1	1 unit	113	2.500		3VL37 20-3□□3□-□□□□		1	1 unit	113	2.500
	3VL37 25-2□□3□-□□□□		1	1 unit	113	2.500		3VL37 25-3□□3□-□□□□		1	1 unit	113	2.500
	3							3					
	6							6					
	3VL47 31-2□□36-□□□□		1	1 unit	113	5.900		3VL47 31-3□□36-□□□□		1	1 unit	113	5.900
	3VL47 40-2□□36-□□□□		1	1 unit	113	5.900		3VL47 40-3□□36-□□□□		1	1 unit	113	5.900
	3VL57 63-2□□36-□□□□		1	1 unit	113	9.300		3VL57 63-3□□36-□□□□		1	1 unit	113	9.300
	3VL67 80-2□□36-□□□□		1	1 unit	113	16.000		3VL67 80-3□□36-□□□□		1	1 unit	113	16.000
	3VL77 10-2□□36-□□□□		1	1 unit	113	25.000		3VL77 10-3□□36-□□□□		1	1 unit	113	25.000
	3VL77 12-2□□36-□□□□		1	1 unit	113	25.000		3VL77 12-3□□36-□□□□		1	1 unit	113	25.000
	3VL87 16-2□□30-□□□□		1	1 unit	113	31.300		3VL87 16-3□□30-□□□□		1	1 unit	113	31.300
	SE							SE					
	ME							ME					
	LE							LE					

Molded Case Circuit Breakers

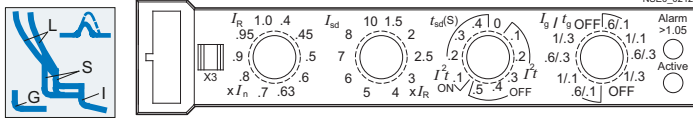
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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 breaking capacity N See "Overview".					
	A	A	A	A	A		Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							Order No. supplement required, see page 2/58					kg

3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, Electronic Trip Units 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	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$	OFF	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	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	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	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	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	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	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	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	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	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	3VL77 12-1□□36-□□□□	1	1 unit	113	25,000
VL1600/3VL8 ¹⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$	OFF	3VL87 16-1□□30-□□□□	1	1 unit	113	31,300

- Without communication preparation
- With communication preparation

SG
MG

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

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H						(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L						(L)
	Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.			Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	Order No. supplement required, see page 2/58					kg			Order No. supplement required, see page 2/58					kg	
	3VL27 06-2□□3□-□□□□		1	1 unit	113	2.400			3VL27 06-3□□3□-□□□□		1	1 unit	113	2.400	
	3VL27 10-2□□3□-□□□□		1	1 unit	113	2.400			3VL27 10-3□□3□-□□□□		1	1 unit	113	2.400	
	3VL27 16-2□□3□-□□□□		1	1 unit	113	2.400			3VL27 16-3□□3□-□□□□		1	1 unit	113	2.400	
	3VL37 20-2□□3□-□□□□		1	1 unit	113	2.500			3VL37 20-3□□3□-□□□□		1	1 unit	113	2.500	
	3VL37 25-2□□3□-□□□□		1	1 unit	113	2.500			3VL37 25-3□□3□-□□□□		1	1 unit	113	2.500	
	3								3						
	6								6						
	3VL47 31-2□□36-□□□□		1	1 unit	113	5.900			3VL47 31-3□□36-□□□□		1	1 unit	113	5.900	
	3VL47 40-2□□36-□□□□		1	1 unit	113	5.900			3VL47 40-3□□36-□□□□		1	1 unit	113	5.900	
	3VL57 63-2□□36-□□□□		1	1 unit	113	9.300			3VL57 63-3□□36-□□□□		1	1 unit	113	9.300	
	3VL67 80-2□□36-□□□□		1	1 unit	113	16.000			3VL67 80-3□□36-□□□□		1	1 unit	113	16.000	
	3VL77 10-2□□36-□□□□		1	1 unit	113	25.000			3VL77 10-3□□36-□□□□		1	1 unit	113	25.000	
	3VL77 12-2□□36-□□□□		1	1 unit	113	25.000			3VL77 12-3□□36-□□□□		1	1 unit	113	25.000	
	3VL87 16-2□□30-□□□□		1	1 unit	113	31.300			3VL87 16-3□□30-□□□□		1	1 unit	113	31.300	
	SG								SG						
	MG								MG						

Molded Case Circuit Breakers

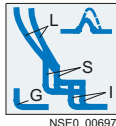
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

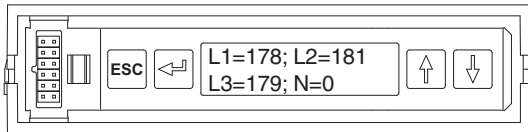
3-pole

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 "T" 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 breaking capacity N See "Overview". Order No. Order No. supplement required, see page 2/58					Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	A	A	A	A	A											kg

3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



NSE0_00697



NSE0_02129

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 formation, ground fault delay $t_g = 0.1 \dots 0.5$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s

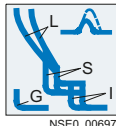
VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 06-1UL3□-□□□□	1	1 unit	113	2.400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 10-1UL3□-□□□□	1	1 unit	113	2.400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 16-1UL3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL37 20-1UL3□-□□□□	1	1 unit	113	2.500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL37 25-1UL3□-□□□□	1	1 unit	113	2.500

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

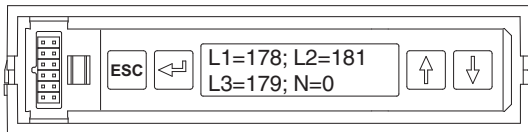
- Connection with box terminal
- Connection with screw terminal

3
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL47 31-1UL36-□□□□	1	1 unit	113	5.900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL47 40-1UL36-□□□□	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	3VL57 63-1UL36-□□□□	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	3VL67 80-1UL36-□□□□	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL77 10-1UL36-□□□□	1	1 unit	113	25.000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL77 12-1UL36-□□□□	1	1 unit	113	25.000
VL1600/3VL8 ¹⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	3VL87 16-1UL30-□□□□	1	1 unit	113	31.300



NSE0_00697



NSE0_02129

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 page 2/92.

Vectorial summation current formation, 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	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 06-1UM3□-□□□□	1	1 unit	113	2.400
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 10-1UM3□-□□□□	1	1 unit	113	2.400
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 16-1UM3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL37 20-1UM3□-□□□□	1	1 unit	113	2.500
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL37 25-1UM3□-□□□□	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	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL47 31-1UM36-□□□□	1	1 unit	113	5.900
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL47 40-1UM36-□□□□	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	3VL57 63-1UM36-□□□□	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	3VL67 80-1UM36-□□□□	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL77 10-1UM36-□□□□	1	1 unit	113	25.000
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL77 12-1UM36-□□□□	1	1 unit	113	25.000
VL1600/3VL8 ¹⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	3VL87 16-1UM30-□□□□	1	1 unit	113	31.300

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H						(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L						(L)
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.			Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
	Order No. supplement required, see page 2/58					kg			Order No. supplement required, see page 2/58					kg	

3VL27 06-2UL3□-□□□□	1	1 unit	113	2.400
3VL27 10-2UL3□-□□□□	1	1 unit	113	2.400
3VL27 16-2UL3□-□□□□	1	1 unit	113	2.400
3VL37 20-2UL3□-□□□□	1	1 unit	113	2.500
3VL37 25-2UL3□-□□□□	1	1 unit	113	2.500

3
6

3VL27 06-3UL3□-□□□□	1	1 unit	113	2.400
3VL27 10-3UL3□-□□□□	1	1 unit	113	2.400
3VL27 16-3UL3□-□□□□	1	1 unit	113	2.400
3VL37 20-3UL3□-□□□□	1	1 unit	113	2.500
3VL37 25-3UL3□-□□□□	1	1 unit	113	2.500

3
6

3VL47 31-2UL36-□□□□	1	1 unit	113	5.900
3VL47 40-2UL36-□□□□	1	1 unit	113	5.900
3VL57 63-2UL36-□□□□	1	1 unit	113	9.300
3VL67 80-2UL36-□□□□	1	1 unit	113	16.000
3VL77 10-2UL36-□□□□	1	1 unit	113	25.000
3VL77 12-2UL36-□□□□	1	1 unit	113	25.000
3VL87 16-2UL30-□□□□	1	1 unit	113	31.300

3VL47 31-3UL36-□□□□	1	1 unit	113	5.900
3VL47 40-3UL36-□□□□	1	1 unit	113	5.900
3VL57 63-3UL36-□□□□	1	1 unit	113	9.300
3VL67 80-3UL36-□□□□	1	1 unit	113	16.000
3VL77 10-3UL36-□□□□	1	1 unit	113	25.000
3VL77 12-3UL36-□□□□	1	1 unit	113	25.000
3VL87 16-3UL30-□□□□	1	1 unit	113	31.300

3VL27 06-2UM3□-□□□□	1	1 unit	113	2.400
3VL27 10-2UM3□-□□□□	1	1 unit	113	2.400
3VL27 16-2UM3□-□□□□	1	1 unit	113	2.400
3VL37 20-2UM3□-□□□□	1	1 unit	113	2.500
3VL37 25-2UM3□-□□□□	1	1 unit	113	2.500

3
6

3VL27 06-3UM3□-□□□□	1	1 unit	113	2.400
3VL27 10-3UM3□-□□□□	1	1 unit	113	2.400
3VL27 16-3UM3□-□□□□	1	1 unit	113	2.400
3VL37 20-3UM3□-□□□□	1	1 unit	113	2.500
3VL37 25-3UM3□-□□□□	1	1 unit	113	2.500

3
6

3VL47 31-2UM36-□□□□	1	1 unit	113	5.900
3VL47 40-2UM36-□□□□	1	1 unit	113	5.900
3VL57 63-2UM36-□□□□	1	1 unit	113	9.300
3VL67 80-2UM36-□□□□	1	1 unit	113	16.000
3VL77 10-2UM36-□□□□	1	1 unit	113	25.000
3VL77 12-2UM36-□□□□	1	1 unit	113	25.000
3VL87 16-2UM30-□□□□	1	1 unit	113	31.300

3VL47 31-3UM36-□□□□	1	1 unit	113	5.900
3VL47 40-3UM36-□□□□	1	1 unit	113	5.900
3VL57 63-3UM36-□□□□	1	1 unit	113	9.300
3VL67 80-3UM36-□□□□	1	1 unit	113	16.000
3VL77 10-3UM36-□□□□	1	1 unit	113	25.000
3VL77 12-3UM36-□□□□	1	1 unit	113	25.000
3VL87 16-3UM30-□□□□	1	1 unit	113	31.300

Molded Case Circuit Breakers

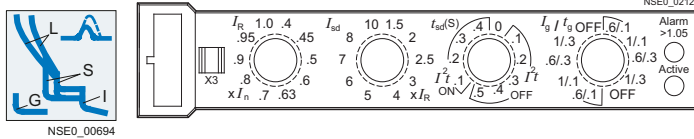
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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 breaking capacity N See "Overview". (N)				
	A	A	A	A	A	Order No. Order No. supplement required, see page 2/58	Price see page 2/34	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg

3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, Electronic Trip Units 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 2/92.

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	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	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	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	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	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	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	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	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	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	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	3VL77 12-1□□36-□□□□	1	1 unit	113	25,000
VL1600/3VL8 ¹⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL87 16-1□□30-□□□□	1	1 unit	113	31,300

- Without communication preparation
- With communication preparation

SH
MH

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

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H					(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					(L)
	Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Order No.	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	Order No. supplement required, see page 2/58					kg		Order No. supplement required, see page 2/58					kg

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

3
63
6

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

SH
MHSH
MH

Molded Case Circuit Breakers

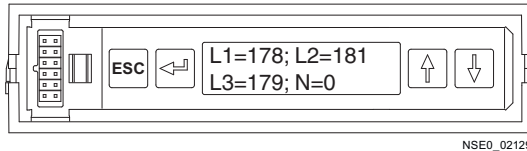
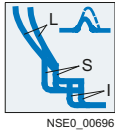
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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	DT	I_{cu} up to 55 kA at 415 V, standard breaking capacity N see "Overview".					(N)
	A	A	A	A		Order No. Order No. supplement required, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

3-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, Electronic Trip Units LI, LS, LSI



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	25 ... 63	1.25 ... 11 × I_n	1.5 ... 10 × I_R	3VL27 06-1UH30-□□□□	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... 11 × I_n	1.5 ... 10 × I_R	3VL27 10-1UH30-□□□□	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... 11 × I_n	1.5 ... 10 × I_R	3VL27 16-1UH30-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	1.5 ... 10 × I_R	3VL37 20-1UH30-□□□□	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	3VL37 25-1UH30-□□□□	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 × I_n	1.5 ... 10 × I_R	3VL47 31-1UH36-□□□□	1	1 unit	113	5.900
	400	160 ... 400	1.25 ... 11 × I_n	1.5 ... 10 × I_R	3VL47 40-1UH36-□□□□	1	1 unit	113	5.900
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	1.5 ... 9 × I_R	3VL57 63-1UH36-□□□□	1	1 unit	113	9.300
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	1.5 ... 7 × I_R	3VL67 80-1UH36-□□□□	1	1 unit	113	16.000
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	1.5 ... 10 × I_R	3VL77 10-1UH36-□□□□	1	1 unit	113	25.000
	1250	500 ... 1250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	3VL77 12-1UH36-□□□□	1	1 unit	113	25.000
VL1600/3VL8 ¹⁾	1600	640 ... 1600	1.25 ... 9 × I_n	1.5 ... 8 × I_R	3VL87 16-1UH30-□□□□	1	1 unit	113	31.300

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)							DT I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)						
Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	kg	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	kg
Order No. supplement required, see page 2/58							Order No. supplement required, see page 2/58						
3VL27 06-2UH3□-□□□□							3VL27 06-3UH3□-□□□□						
3VL27 10-2UH3□-□□□□							3VL27 10-3UH3□-□□□□						
3VL27 16-2UH3□-□□□□							3VL27 16-3UH3□-□□□□						
3VL37 20-2UH3□-□□□□							3VL37 20-3UH3□-□□□□						
3VL37 25-2UH3□-□□□□							3VL37 25-3UH3□-□□□□						
3							3						
6							6						
3VL47 31-2UH36-□□□□							3VL47 31-3UH36-□□□□						
3VL47 40-2UH36-□□□□							3VL47 40-3UH36-□□□□						
3VL57 63-2UH36-□□□□							3VL57 63-3UH36-□□□□						
3VL67 80-2UH36-□□□□							3VL67 80-3UH36-□□□□						
3VL77 10-2UH36-□□□□							3VL77 10-3UH36-□□□□						
3VL77 12-2UH36-□□□□							3VL77 12-3UH36-□□□□						
3VL87 16-2UH30-□□□□							3VL87 16-3UH30-□□□□						

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

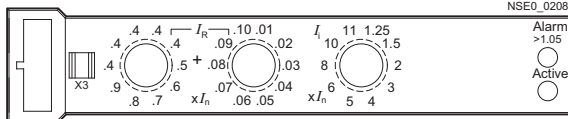
3-pole

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 breaking capacity N See "Overview".	(N)				
	A	A	A		Order No. Order No. supplement required, see page 2/58	Price see page 2/34	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units 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	3VL27 06-1□□3□-□□□□	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... 11 × I_n	3VL27 10-1□□3□-□□□□	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... 11 × I_n	3VL27 16-1□□3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	3VL37 20-1□□3□-□□□□	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... 11 × I_n	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.

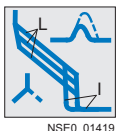
- Connection with box terminal
- Connection with screw terminal

3
6

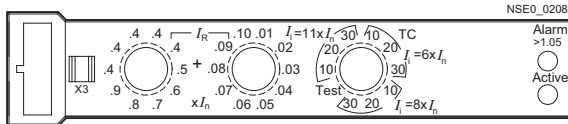
VL400/3VL4	315	125 ... 315	1.25 ... 11 × I_n	3VL47 31-1□□36-□□□□	1	1 unit	113	5.900
VL630/3VL5	500	200 ... 500	1.25 ... 12.5 × I_n	3VL57 50-1□□36-□□□□	1	1 unit	113	9.300

- Without communication preparation
- With communication preparation

SP
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	3VL27 06-1□□3□-□□□□	1	1 unit	113	2.400
	100	40 ... 100	6/8/11 × I_n	3VL27 10-1□□3□-□□□□	1	1 unit	113	2.400
	160	64 ... 160	6/8/11 × I_n	3VL27 16-1□□3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	6/8/11 × I_n	3VL37 20-1□□3□-□□□□	1	1 unit	113	2.500
	250	100 ... 250	6/8/11 × I_n	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	125 ... 315	6/8/11 × I_n	3VL47 31-1□□36-□□□□	1	1 unit	113	5.900
VL630/3VL5	500	200 ... 500	6/8/12.5 × I_n	3VL57 50-1□□36-□□□□	1	1 unit	113	9.300

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

SS
MS
LS

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H					(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					(L)
	Order No.	Price see page 2/34	PU (UNIT, SET,	PS*/P. unit	PG	Weight per PU approx.		Order No.	Price see page 2/34	PU (UNIT, SET,	PS*/P. unit	PG	Weight per PU approx.
	Order No. supplement required, see page 2/58					kg		Order No. supplement required, see page 2/58					kg

3VL27 06-2□□3□-□□□□

1 1 unit 113 2.400

3VL27 10-2□□3□-□□□□

1 1 unit 113 2.400

3VL27 16-2□□3□-□□□□

1 1 unit 113 2.400

3VL37 20-2□□3□-□□□□

1 1 unit 113 2.500

3VL37 25-2□□3□-□□□□

1 1 unit 113 2.500

3
63
6

3VL47 31-2□□36-□□□□

1 1 unit 113 5.900

3VL57 50-2□□36-□□□□

1 1 unit 113 9.300

SP
MPSP
MP

3VL27 06-2□□3□-□□□□

1 1 unit 113 2.400

3VL27 10-2□□3□-□□□□

1 1 unit 113 2.400

3VL27 16-2□□3□-□□□□

1 1 unit 113 2.400

3VL37 20-2□□3□-□□□□

1 1 unit 113 2.500

3VL37 25-2□□3□-□□□□

1 1 unit 113 2.500

3
63
6

3VL47 31-2□□36-□□□□

1 1 unit 113 5.900

3VL57 50-2□□36-□□□□

1 1 unit 113 9.300

SS
MS
LSSS
MS
LS

Molded Case Circuit Breakers

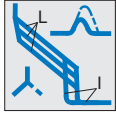
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

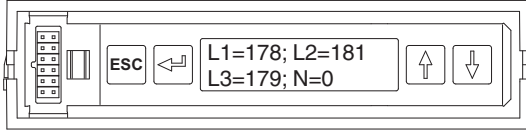
3-pole

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 breaking capacity N See "Overview".					
					Order No. Order No. supplement required, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	A	A							kg

3-pole, fixed-mounted, for motor protection,
63 A to 500 A, Electronic Trip Units LI



NSE0_01419



NSE0_02129

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 ... $11 \times I_n$	3VL27 06-1UP3□-□□□□	1	1 unit	113	2.400
	100	40 ... 100	1.25 ... $11 \times I_n$	3VL27 10-1UP3□-□□□□	1	1 unit	113	2.400
	160	64 ... 160	1.25 ... $11 \times I_n$	3VL27 16-1UP3□-□□□□	1	1 unit	113	2.400
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	3VL37 20-1UP3□-□□□□	1	1 unit	113	2.500
	250	100 ... 250	1.25 ... $11 \times I_n$	3VL37 25-1UP3□-□□□□	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 ... $11 \times I_n$	3VL47 31-1UP36-□□□□	1	1 unit	113	5.900
VL630/3VL5	500	250 ... 500	1.25 ... $11 \times I_n$	3VL57 50-1UP36-□□□□	1	1 unit	113	9.300

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)						DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)					
	Order No. Order No. supplement required, see page 2/58	Basic price per PU	PU (UNIT, SET,	PS*/ P. unit	PG	Weight per PU approx. kg		Order No. Order No. supplement required, see page 2/58	Basic price per PU	PU (UNIT, SET,	PS*/ P. unit	PG	Weight per PU approx. kg
	3VL27 06-2UP3□-□□□□		1	1 unit	113	2.400		3VL27 06-3UP3□-□□□□		1	1 unit	113	2.400
	3VL27 10-2UP3□-□□□□		1	1 unit	113	2.400		3VL27 10-3UP3□-□□□□		1	1 unit	113	2.400
	3VL27 16-2UP3□-□□□□		1	1 unit	113	2.400		3VL27 16-3UP3□-□□□□		1	1 unit	113	2.400
	3VL37 20-2UP3□-□□□□		1	1 unit	113	2.500		3VL37 20-3UP3□-□□□□		1	1 unit	113	2.500
	3VL37 25-2UP3□-□□□□		1	1 unit	113	2.500		3VL37 25-3UP3□-□□□□		1	1 unit	113	2.500
	3							3					
	6							6					
	3VL47 31-2UP36-□□□□		1	1 unit	113	5.900		3VL47 31-3UP36-□□□□		1	1 unit	113	5.900
	3VL57 50-2UP36-□□□□		1	1 unit	113	9.300		3VL57 50-3UP36-□□□□		1	1 unit	113	9.300

Molded Case Circuit Breakers

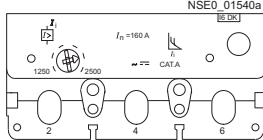
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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 breaking capacity N see "Overview".	(N)
	A			Order No. Order No. supplement required, see page 2/58	Basic price per PU PU (UNIT, SET, M) PS*/P. unit PG Weight per PU approx. kg

3-pole, fixed-mounted, for starter protection, 63 A to 500 A, magnetic trip unit I



Starter protection, M, I function

Without overcurrent release, with adjustable short-circuit release

VL160/3VL2	63	450 ... 900	3VL27 06-1DK3□-□□□□	1	1 unit	113	2.200
	100	750 ... 1500	3VL27 10-1DK3□-□□□□	1	1 unit	113	2.200
	160	1250 ... 2500	3VL27 16-1DK3□-□□□□	1	1 unit	113	2.200
VL250/3VL3	250	1750 ... 3500	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
- Connection with screw terminal

3
6

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

3-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic trip unit I



Non-automatic molded case circuit breakers¹⁾, I function

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

VL160X/3VL1	100	1800	3VL17 10-1DE3□-□□□□	1	1 unit	113	2.000
	160	1800	3VL17 16-1DE3□-□□□□	1	1 unit	113	2.000
VL160/3VL2	100	2500	3VL27 10-1DE3□-□□□□	1	1 unit	113	2.200
	160	2500	3VL27 16-1DE3□-□□□□	1	1 unit	113	2.200
VL250/3VL3	250	3500	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
- Connection with screw terminal not in conjunction with RCD module at 3VL1

3
6

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

For further versions, including for short-circuit and ground fault protection, see pages 2/14 to 2/30.

¹⁾ See also chapter "Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

DT I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)						DT I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)					
Order No.	Basic price per PU	PU (UNIT, SET,	PS*/P. unit	PG	Weight per PU approx.	Order No.	Basic price per PU	PU (UNIT, SET,	PS*/P. unit	PG	Weight per PU approx.
Order No. supplement required, see page 2/58					kg	Order No. supplement required, see page 2/58					kg
3VL27 06-2DK3□-□□□□		1	1 unit	113	2.200	3VL27 06-3DK3□-□□□□		1	1 unit	113	2.200
3VL27 10-2DK3□-□□□□		1	1 unit	113	2.200	3VL27 10-3DK3□-□□□□		1	1 unit	113	2.200
3VL27 16-2DK3□-□□□□		1	1 unit	113	2.200	3VL27 16-3DK3□-□□□□		1	1 unit	113	2.200
3VL37 25-2DK3□-□□□□		1	1 unit	113	2.300	3VL37 25-3DK3□-□□□□		1	1 unit	113	2.300
3 6						3 6					
3VL47 20-2DK36-□□□□		1	1 unit	113	5.700	3VL47 20-3DK36-□□□□		1	1 unit	113	5.700
3VL47 25-2DK36-□□□□		1	1 unit	113	5.700	3VL47 25-3DK36-□□□□		1	1 unit	113	5.700
3VL47 31-2DK36-□□□□		1	1 unit	113	5.700	3VL47 31-3DK36-□□□□		1	1 unit	113	5.700
3VL57 31-2DK36-□□□□		1	1 unit	113	9.000	3VL57 31-3DK36-□□□□		1	1 unit	113	9.000
3VL57 50-2DK36-□□□□		1	1 unit	113	9.000	3VL57 50-3DK36-□□□□		1	1 unit	113	9.000
3VL17 10-2DE3□-□□□□		1	1 unit	113	2.000	--					
3VL17 16-2DE3□-□□□□		1	1 unit	113	2.000	--					
3VL27 10-2DE3□-□□□□		1	1 unit	113	2.200	3VL27 10-3DE3□-□□□□		1	1 unit	113	2.200
3VL27 16-2DE3□-□□□□		1	1 unit	113	2.200	3VL27 16-3DE3□-□□□□		1	1 unit	113	2.200
3VL37 25-2DE3□-□□□□		1	1 unit	113	2.300	3VL37 25-3DE3□-□□□□		1	1 unit	113	2.300
3 6						3 6					
3VL47 40-2DE36-□□□□		1	1 unit	113	5.700	3VL47 40-3DE36-□□□□		1	1 unit	113	5.700
3VL57 63-2DE36-□□□□		1	1 unit	113	9.000	3VL57 63-3DE36-□□□□		1	1 unit	113	9.000
3VL67 80-2DE36-□□□□		1	1 unit	113	15.700	3VL67 80-3DE36-□□□□		1	1 unit	113	15.700
3VL77 12-2DE36-□□□□		1	1 unit	113	23.500	3VL77 12-3DE36-□□□□		1	1 unit	113	23.500
3VL87 16-2DE30-□□□□		1	1 unit	113	29.800	3VL87 16-3DE30-□□□□		1	1 unit	113	29.800

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

3-pole

Order No. supplement (for complete Order No., see pages 2/14 to 2/30) 3VL.7 ... □□3... Releases	Breaking capacity		Type												
			VL160 3VL2			VL250 3VL3		VL400 3VL4		VL630 3VL5		VL800 3VL6	VL1250 3VL7		VL1600 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
			Price												
ETU10	SB		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU10	MB		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU10	LB		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU12	SL		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU12	ML		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU12	SF		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU12	MF		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU20	SE		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU20	ME		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU20	LE		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU22	SG		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU22	MG		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU42	UL		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU42	UM		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU22	SH		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU22	MH		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
ETU40	UH		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓

✓ Available

-- Not available

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Order No. supplement (for complete Order No. see pages 2/14 to 2/30) 3VL.7 .. - .□□3-.... Releases	Breaking capacity	Type	VL160			VL250		VL400		VL630		VL800		VL1250		VL1600	
			3VL2			3VL3		3VL4		3VL5		3VL6		3VL7		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		
			Price														
ETU10M	SP	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--	--	
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--	
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--	
ETU10M	MP	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
ETU30M	SS	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
ETU30M	MS	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
ETU30M	LS	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
ETU40M	UP	N H L	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		
			✓	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--		

✓ Available

-- Not available

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

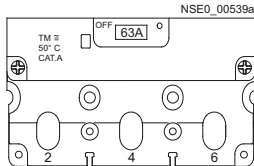
2

4-pole

Selection and ordering data

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent releases I_R	Operating current of the instantaneous short-circuit releases "I" I_i	DT	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".				
	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG
					Order No. supplement required, see page 2/58				Weight per PU approx.
									kg

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



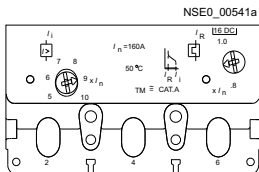
System protection, TM, LI function

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	3VL17 96-1EH4□-□□□□	1	1 unit	113	2,300
	20	20	300	3VL17 02-1EH4□-□□□□	1	1 unit	113	2,300
	25	25	300	3VL17 25-1EH4□-□□□□	1	1 unit	113	2,500
	32	32	300	3VL17 03-1EH4□-□□□□	1	1 unit	113	2,500
	40	40	600	3VL17 04-1EH4□-□□□□	1	1 unit	113	2,500
	50	50	600	3VL17 05-1EH4□-□□□□	1	1 unit	113	2,500
	63	63	600	3VL17 06-1EH4□-□□□□	1	1 unit	113	2,500
	80	80	1000	3VL17 08-1EH4□-□□□□	1	1 unit	113	2,500
	100	100	1000	3VL17 10-1EH4□-□□□□	1	1 unit	113	2,500
	125	125	1000	3VL17 12-1EH4□-□□□□	1	1 unit	113	2,500
	160	160	1500	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
- Connection with screw terminal not in conjunction with RCD module

3
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	3VL27 05-1EJ4□-□□□□	1	1 unit	113	3,000
	63	50 ... 63	300 ... 600	3VL27 06-1EJ4□-□□□□	1	1 unit	113	3,000
	80	63 ... 80	400 ... 800	3VL27 08-1EJ4□-□□□□	1	1 unit	113	3,000
	100	80 ... 100	500 ... 1000	3VL27 10-1EJ4□-□□□□	1	1 unit	113	3,000
	125	100 ... 125	625 ... 1250	3VL27 12-1EJ4□-□□□□	1	1 unit	113	3,000
	160	125 ... 160	800 ... 1600	3VL27 16-1EJ4□-□□□□	1	1 unit	113	3,000
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL37 20-1EJ4□-□□□□	1	1 unit	113	3,200
	250	200 ... 250	1250 ... 2500	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
- Connection with screw terminal

3
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL47 20-1EJ46-□□□□	1	1 unit	113	7,400
	250	200 ... 250	1250 ... 2500	3VL47 25-1EJ46-□□□□	1	1 unit	113	7,400
	315	250 ... 315	1575 ... 3150	3VL47 31-1EJ46-□□□□	1	1 unit	113	7,400
	400	320 ... 400	2000 ... 4000	3VL47 40-1EJ46-□□□□	1	1 unit	113	7,400
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL57 31-1EJ46-□□□□	1	1 unit	113	11,200
	400	320 ... 400	2000 ... 4000	3VL57 40-1EJ46-□□□□	1	1 unit	113	11,200
	500	400 ... 500	2500 ... 5000	3VL57 50-1EJ46-□□□□	1	1 unit	113	11,200
	630	500 ... 630	3150 ... 6300	3VL57 63-1EJ46-□□□□	1	1 unit	113	11,200

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H					(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					(L)
Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
Order No. supplement required, see page 2/58					kg		Order No. supplement required, see page 2/58					kg	

3VL17 96-2EH4□-□□□□	1	1 unit	113	2.300	--
3VL17 02-2EH4□-□□□□	1	1 unit	113	2.300	--
3VL17 25-2EH4□-□□□□	1	1 unit	113	2.500	--
3VL17 03-2EH4□-□□□□	1	1 unit	113	2.500	--
3VL17 04-2EH4□-□□□□	1	1 unit	113	2.500	--
3VL17 05-2EH4□-□□□□	1	1 unit	113	2.500	--
3VL17 06-2EH4□-□□□□	1	1 unit	113	2.500	--
3VL17 08-2EH4□-□□□□	1	1 unit	113	2.500	--
3VL17 10-2EH4□-□□□□	1	1 unit	113	2.500	--
3VL17 12-2EH4□-□□□□	1	1 unit	113	2.500	--
3VL17 16-2EH4□-□□□□	1	1 unit	113	2.500	--

3
6

3VL27 05-2EJ4□-□□□□	1	1 unit	113	3.000	3VL27 05-3EJ4□-□□□□	1	1 unit	113	3.000
3VL27 06-2EJ4□-□□□□	1	1 unit	113	3.000	3VL27 06-3EJ4□-□□□□	1	1 unit	113	3.000
3VL27 08-2EJ4□-□□□□	1	1 unit	113	3.000	3VL27 08-3EJ4□-□□□□	1	1 unit	113	3.000
3VL27 10-2EJ4□-□□□□	1	1 unit	113	3.000	3VL27 10-3EJ4□-□□□□	1	1 unit	113	3.000
3VL27 12-2EJ4□-□□□□	1	1 unit	113	3.000	3VL27 12-3EJ4□-□□□□	1	1 unit	113	3.000
3VL27 16-2EJ4□-□□□□	1	1 unit	113	3.000	3VL27 16-3EJ4□-□□□□	1	1 unit	113	3.000
3VL37 20-2EJ4□-□□□□	1	1 unit	113	3.200	3VL37 20-3EJ4□-□□□□	1	1 unit	113	3.200
3VL37 25-2EJ4□-□□□□	1	1 unit	113	3.200	3VL37 25-3EJ4□-□□□□	1	1 unit	113	3.200

3
63
6

3VL47 20-2EJ46-□□□□	1	1 unit	113	7.400	3VL47 20-3EJ46-□□□□	1	1 unit	113	7.400
3VL47 25-2EJ46-□□□□	1	1 unit	113	7.400	3VL47 25-3EJ46-□□□□	1	1 unit	113	7.400
3VL47 31-2EJ46-□□□□	1	1 unit	113	7.400	3VL47 31-3EJ46-□□□□	1	1 unit	113	7.400
3VL47 40-2EJ46-□□□□	1	1 unit	113	7.400	3VL47 40-3EJ46-□□□□	1	1 unit	113	7.400
3VL57 31-2EJ46-□□□□	1	1 unit	113	11.200	3VL57 31-3EJ46-□□□□	1	1 unit	113	11.200
3VL57 40-2EJ46-□□□□	1	1 unit	113	11.200	3VL57 40-3EJ46-□□□□	1	1 unit	113	11.200
3VL57 50-2EJ46-□□□□	1	1 unit	113	11.200	3VL57 50-3EJ46-□□□□	1	1 unit	113	11.200
3VL57 63-2EJ46-□□□□	1	1 unit	113	11.200	3VL57 63-3EJ46-□□□□	1	1 unit	113	11.200

Molded Case Circuit Breakers

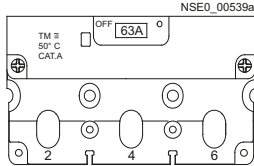
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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 breaking capacity N See "Overview".					
	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
					Order No. supplement required, see page 2/58					

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



System protection, TM, LIN function

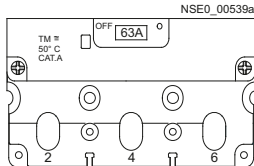
With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, with "N" overcurrent and short-circuit release
N protection = 100 %

VL160X/3VL1	16	16	300	3VL17 96-1EA4□-□□□□	1	1 unit	113	2.300
	20	20	300	3VL17 02-1EA4□-□□□□	1	1 unit	113	2.300
	25	25	300	3VL17 25-1EA4□-□□□□	1	1 unit	113	2.500
	32	32	300	3VL17 03-1EA4□-□□□□	1	1 unit	113	2.500
	40	40	600	3VL17 04-1EA4□-□□□□	1	1 unit	113	2.500
	50	50	600	3VL17 05-1EA4□-□□□□	1	1 unit	113	2.500
	63	63	600	3VL17 06-1EA4□-□□□□	1	1 unit	113	2.500
	80	80	1000	3VL17 08-1EA4□-□□□□	1	1 unit	113	2.500
	100	100	1000	3VL17 10-1EA4□-□□□□	1	1 unit	113	2.500
	125	125	1000	3VL17 12-1EL4□-□□□□	1	1 unit	113	2.500
	160	160	1500	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
- Connection with screw terminal not in conjunction with RCD module

3
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	125	125	1000	3VL17 12-1EA4□-□□□□	1	1 unit	113	2.500
	160	160	1500	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
- Connection with screw terminal not in conjunction with RCD module

3
6

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H						DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					
	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Order No. supplement required, see page 2/58							Order No. supplement required, see page 2/58					

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

3
6

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

3
6

Molded Case Circuit Breakers

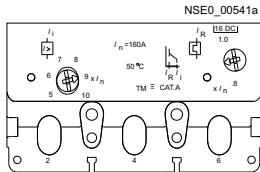
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

4-pole

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent releases I_R	Operating current of the instantaneous short-circuit releases I_i	DT	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".					(N)
	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
					Order No. supplement required, see page 2/58					kg

4-pole, fixed-mounted, for system protection, 16 A to 630 A, thermal-magnetic trip units 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 %

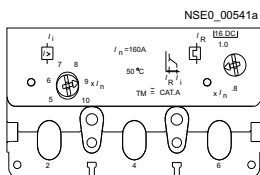
VL160/3VL2	50	40 ... 50	300 ... 600	3VL27 05-1EM4□-□□□□	1	1 unit	113	3.000
	63	50 ... 63	300 ... 600	3VL27 06-1EM4□-□□□□	1	1 unit	113	3.000
	80	63 ... 80	400 ... 800	3VL27 08-1EM4□-□□□□	1	1 unit	113	3.000
	100	80 ... 100	500 ... 1000	3VL27 10-1EM4□-□□□□	1	1 unit	113	3.000
	125	100 ... 125	625 ... 1250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

3
6

VL400/3VL4	200	160 ... 200	1000 ... 2000	3VL47 20-1EM46-□□□□	1	1 unit	113	7.400
	250	200 ... 250	1250 ... 2500	3VL47 25-1EM46-□□□□	1	1 unit	113	7.400
	315	250 ... 315	1575 ... 3150	3VL47 31-1EM46-□□□□	1	1 unit	113	7.400
	400	320 ... 400	2000 ... 4000	3VL47 40-1EM46-□□□□	1	1 unit	113	7.400
VL630/3VL5	315	250 ... 315	1575 ... 3150	3VL57 31-1EM46-□□□□	1	1 unit	113	11.200
	400	320 ... 400	2000 ... 4000	3VL57 40-1EM46-□□□□	1	1 unit	113	11.200
	500	400 ... 500	2500 ... 5000	3VL57 50-1EM46-□□□□	1	1 unit	113	11.200
	630	500 ... 630	3150 ... 6300	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	3VL27 12-1EC4□-□□□□	1	1 unit	113	3.000
	160	125 ... 160	800 ... 1600	3VL27 16-1EC4□-□□□□	1	1 unit	113	3.000
VL250/3VL3	200	160 ... 200	1000 ... 2000	3VL37 20-1EC4□-□□□□	1	1 unit	113	3.200
	250	200 ... 250	1250 ... 2500	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
- Connection with screw terminal

3
6

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT I_{cu} up to 70 kA at 415 V, high breaking capacity H						DT I_{cu} up to 100 kA at 415 V, very high breaking capacity L					
Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
3VL27 05-2EM4□-□□□□		1	1 unit	113	3.000	3VL27 05-3EM4□-□□□□		1	1 unit	113	3.000
3VL27 06-2EM4□-□□□□		1	1 unit	113	3.000	3VL27 06-3EM4□-□□□□		1	1 unit	113	3.000
3VL27 08-2EM4□-□□□□		1	1 unit	113	3.000	3VL27 08-3EM4□-□□□□		1	1 unit	113	3.000
3VL27 10-2EM4□-□□□□		1	1 unit	113	3.000	3VL27 10-3EM4□-□□□□		1	1 unit	113	3.000
3VL27 12-2EM4□-□□□□		1	1 unit	113	3.000	3VL27 12-3EM4□-□□□□		1	1 unit	113	3.000
3VL27 16-2EM4□-□□□□		1	1 unit	113	3.000	3VL27 16-3EM4□-□□□□		1	1 unit	113	3.000
3VL37 20-2EM4□-□□□□		1	1 unit	113	3.200	3VL37 20-3EM4□-□□□□		1	1 unit	113	3.200
3VL37 25-2EM4□-□□□□		1	1 unit	113	3.200	3VL37 25-3EM4□-□□□□		1	1 unit	113	3.200
3 6						3 6					
3VL47 20-2EM46-□□□□		1	1 unit	113	7.400	3VL47 20-3EM46-□□□□		1	1 unit	113	7.400
3VL47 25-2EM46-□□□□		1	1 unit	113	7.400	3VL47 25-3EM46-□□□□		1	1 unit	113	7.400
3VL47 31-2EM46-□□□□		1	1 unit	113	7.400	3VL47 31-3EM46-□□□□		1	1 unit	113	7.400
3VL47 40-2EM46-□□□□		1	1 unit	113	7.400	3VL47 40-3EM46-□□□□		1	1 unit	113	7.400
3VL57 31-2EM46-□□□□		1	1 unit	113	11.200	3VL57 31-3EM46-□□□□		1	1 unit	113	11.200
3VL57 40-2EM46-□□□□		1	1 unit	113	11.200	3VL57 40-3EM46-□□□□		1	1 unit	113	11.200
3VL57 50-2EM46-□□□□		1	1 unit	113	11.200	3VL57 50-3EM46-□□□□		1	1 unit	113	11.200
3VL57 63-2EM46-□□□□		1	1 unit	113	11.200	3VL57 63-3EM46-□□□□		1	1 unit	113	11.200
3VL27 12-2EC4□-□□□□		1	1 unit	113	3.000	3VL27 12-3EC4□-□□□□		1	1 unit	113	3.000
3VL27 16-2EC4□-□□□□		1	1 unit	113	3.000	3VL27 16-3EC4□-□□□□		1	1 unit	113	3.000
3VL37 20-2EC4□-□□□□		1	1 unit	113	3.200	3VL37 20-3EC4□-□□□□		1	1 unit	113	3.200
3VL37 25-2EC4□-□□□□		1	1 unit	113	3.200	3VL37 25-3EC4□-□□□□		1	1 unit	113	3.200
3 6						3 6					
3VL47 20-2EC46-□□□□		1	1 unit	113	7.400	3VL47 20-3EC46-□□□□		1	1 unit	113	7.400
3VL47 25-2EC46-□□□□		1	1 unit	113	7.400	3VL47 25-3EC46-□□□□		1	1 unit	113	7.400
3VL47 31-2EC46-□□□□		1	1 unit	113	7.400	3VL47 31-3EC46-□□□□		1	1 unit	113	7.400
3VL47 40-2EC46-□□□□		1	1 unit	113	7.400	3VL47 40-3EC46-□□□□		1	1 unit	113	7.400
3VL57 31-2EC46-□□□□		1	1 unit	113	11.200	3VL57 31-3EC46-□□□□		1	1 unit	113	11.200
3VL57 40-2EC46-□□□□		1	1 unit	113	11.200	3VL57 40-3EC46-□□□□		1	1 unit	113	11.200
3VL57 50-2EC46-□□□□		1	1 unit	113	11.200	3VL57 50-3EC46-□□□□		1	1 unit	113	11.200
3VL57 63-2EC46-□□□□		1	1 unit	113	11.200	3VL57 63-3EC46-□□□□		1	1 unit	113	11.200

Molded Case Circuit Breakers

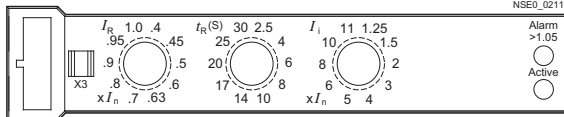
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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 breaking capacity N See "Overview". Order No. Order No. supplement required, see page 2/58						Price see page 2/56	PU (UNIT, SET, M)	PS*/ unit	PG	Weight per PU approx.
	A	A	A											kg	

4-pole, fixed-mounted, for system protection, 63 A to 1600 A, Electronic Trip Units LI



ETU10, LI function

With adjustable overcurrent releases, adjustable short-circuit releases

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

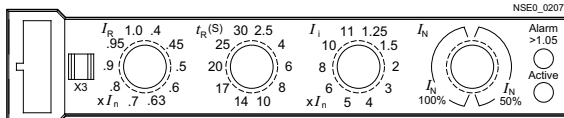
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VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	3VL47 31-1□□46-□□□□	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... $11 \times I_n$	3VL47 40-1□□46-□□□□	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	3VL57 63-1□□46-□□□□	1	1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



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 ... $11 \times I_n$	3VL27 06-1□□4□-□□□□	1	1 unit	113	3.100
	100	40 ... 100	1.25 ... $11 \times I_n$	3VL27 10-1□□4□-□□□□	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... $11 \times I_n$	3VL27 16-1□□4□-□□□□	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	3VL37 20-1□□4□-□□□□	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... $11 \times I_n$	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 ... $11 \times I_n$	3VL47 31-1□□46-□□□□	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... $11 \times I_n$	3VL47 40-1□□46-□□□□	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	3VL57 63-1□□46-□□□□	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	3VL67 80-1□□46-□□□□	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	3VL77 10-1□□46-□□□□	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... $11 \times I_n$	3VL77 12-1□□46-□□□□	1	1 unit	113	33.500
VL1600/3VL8 ¹⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	3VL87 16-1□□40-□□□□	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

TA
NA
LA

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H						(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L						(L)
	Order No.	Price see page 2/56	PU (UNIT, SET,	PS*/P. unit	PG	Weight per PU approx.			Order No.	Price see page 2/56	PU (UNIT, SET,	PS*/P. unit	PG	Weight per PU approx.	
	Order No. supplement required, see page 2/58					kg			Order No. supplement required, see page 2/58					kg	

3VL27 06-2□□4□-□□□□
3VL27 10-2□□4□-□□□□
3VL27 16-2□□4□-□□□□

1 1 unit 113 3.100
1 1 unit 113 3.100
1 1 unit 113 3.100

3VL37 20-2□□4□-□□□□
3VL37 25-2□□4□-□□□□

1 1 unit 113 3.300
1 1 unit 113 3.300

3
6

3VL47 31-2□□46-□□□□
3VL47 40-2□□46-□□□□

1 1 unit 113 7.600
1 1 unit 113 7.600

3VL57 63-2□□46-□□□□
3VL67 80-2□□46-□□□□

1 1 unit 113 11.700
1 1 unit 113 20.500

3VL77 10-2□□46-□□□□
3VL77 12-2□□46-□□□□

1 1 unit 113 33.500
1 1 unit 113 33.500

3VL87 16-2□□40-□□□□

1 1 unit 113 40.800

TB
NB

3VL27 06-3□□4□-□□□□
3VL27 10-3□□4□-□□□□
3VL27 16-3□□4□-□□□□

1 1 unit 113 3.100
1 1 unit 113 3.100
1 1 unit 113 3.100

3VL37 20-3□□4□-□□□□
3VL37 25-3□□4□-□□□□

1 1 unit 113 3.300
1 1 unit 113 3.300

3
6

3VL47 31-3□□46-□□□□
3VL47 40-3□□46-□□□□

1 1 unit 113 7.600
1 1 unit 113 7.600

3VL57 63-3□□46-□□□□
3VL67 80-3□□46-□□□□

1 1 unit 113 11.700
1 1 unit 113 20.500

3VL77 10-3□□46-□□□□
3VL77 12-3□□46-□□□□

1 1 unit 113 33.500
1 1 unit 113 33.500

3VL87 16-3□□40-□□□□

1 1 unit 113 40.800

TB
NB

3VL27 06-2□□4□-□□□□
3VL27 10-2□□4□-□□□□
3VL27 16-2□□4□-□□□□

1 1 unit 113 3.100
1 1 unit 113 3.100
1 1 unit 113 3.100

3VL37 20-2□□4□-□□□□
3VL37 25-2□□4□-□□□□

1 1 unit 113 3.300
1 1 unit 113 3.300

3
6

3VL47 31-2□□46-□□□□
3VL47 40-2□□46-□□□□

1 1 unit 113 7.600
1 1 unit 113 7.600

3VL57 63-2□□46-□□□□
3VL67 80-2□□46-□□□□

1 1 unit 113 11.700
1 1 unit 113 20.500

3VL77 10-2□□46-□□□□
3VL77 12-2□□46-□□□□

1 1 unit 113 33.500
1 1 unit 113 33.500

3VL87 16-2□□40-□□□□

1 1 unit 113 40.800

TA
NA
LA

3VL27 06-3□□4□-□□□□
3VL27 10-3□□4□-□□□□
3VL27 16-3□□4□-□□□□

1 1 unit 113 3.100
1 1 unit 113 3.100
1 1 unit 113 3.100

3VL37 20-3□□4□-□□□□
3VL37 25-3□□4□-□□□□

1 1 unit 113 3.300
1 1 unit 113 3.300

3
6

3VL47 31-3□□46-□□□□
3VL47 40-3□□46-□□□□

1 1 unit 113 7.600
1 1 unit 113 7.600

3VL57 63-3□□46-□□□□
3VL67 80-3□□46-□□□□

1 1 unit 113 11.700
1 1 unit 113 20.500

3VL77 10-3□□46-□□□□
3VL77 12-3□□46-□□□□

1 1 unit 113 33.500
1 1 unit 113 33.500

3VL87 16-3□□40-□□□□

1 1 unit 113 40.800

TA
NA
LA

Communication:

• For accessories, [see page 2/93](#).• For more information [see also chapters "Measuring Devices and Power Monitoring" and "Software"](#).

Molded Case Circuit Breakers

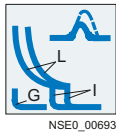
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

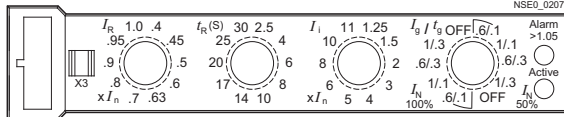
4-pole

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 breaking capacity N See "Overview".					(N)
	A	A	A	A		Order No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
						Order No. supplement required, see page 2/58					kg

4-pole, fixed-mounted, for system protection, 63 A to 1600 A, Electronic Trip Units LING



NSE0_00693



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

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, 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 %

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL27 06-1□□4□-□□□□	1	1 unit	113	3.100
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL27 10-1□□4□-□□□□	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL27 16-1□□4□-□□□□	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL37 20-1□□4□-□□□□	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	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 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL47 31-1□□46-□□□□	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL47 40-1□□46-□□□□	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL57 63-1□□46-□□□□	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL67 80-1□□46-□□□□	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL77 10-1□□46-□□□□	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL77 12-1□□46-□□□□	1	1 unit	113	33.500
VL1600/3VL8 ¹⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL87 16-1□□40-□□□□	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation

TN
NN

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

Communication:

- For accessories, see page 2/93.
- For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)						DT I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)					
Order No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	Order No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Order No. supplement required, see page 2/58						Order No. supplement required, see page 2/58					
3VL27 06-2□□4□-□□□□						3VL27 06-3□□4□-□□□□					
3VL27 10-2□□4□-□□□□		1	1 unit	113	3.100	3VL27 10-3□□4□-□□□□		1	1 unit	113	3.100
3VL27 16-2□□4□-□□□□		1	1 unit	113	3.100	3VL27 16-3□□4□-□□□□		1	1 unit	113	3.100
3VL37 20-2□□4□-□□□□						3VL37 20-3□□4□-□□□□					
3VL37 25-2□□4□-□□□□		1	1 unit	113	3.300	3VL37 25-3□□4□-□□□□		1	1 unit	113	3.300
3						3					
6						6					
3VL47 31-2□□46-□□□□						3VL47 31-3□□46-□□□□					
3VL47 40-2□□46-□□□□		1	1 unit	113	7.600	3VL47 40-3□□46-□□□□		1	1 unit	113	7.600
3VL57 63-2□□46-□□□□		1	1 unit	113	11.700	3VL57 63-3□□46-□□□□		1	1 unit	113	11.700
3VL67 80-2□□46-□□□□		1	1 unit	113	20.500	3VL67 80-3□□46-□□□□		1	1 unit	113	20.500
3VL77 10-2□□46-□□□□		1	1 unit	113	33.500	3VL77 10-3□□46-□□□□		1	1 unit	113	33.500
3VL77 12-2□□46-□□□□		1	1 unit	113	33.500	3VL77 12-3□□46-□□□□		1	1 unit	113	33.500
3VL87 16-2□□40-□□□□		1	1 unit	113	40.800	3VL87 16-3□□40-□□□□		1	1 unit	113	40.800
TN						TN					
NN						NN					

Molded Case Circuit Breakers

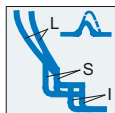
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

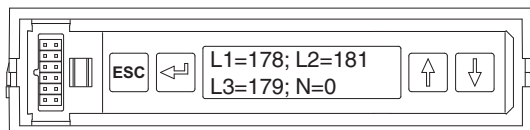
4-pole

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) S	DT	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview"					
	A	A	A	A		Order No.	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
						Order No. supplement required, see page 2/58					kg

4-pole, fixed-mounted, for system protection - generator protection,
63 A to 1600 A, Electronic Trip Units LI, LSI, LIN, LSIN



NSE0_00696



NSE0_02129

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

VL160/3VL2	63 ²⁾	25 ... 63	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL27 06-1UJ4□-□□□□	1	1 unit	113	3.100
	100 ²⁾	40 ... 100	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL27 10-1UJ4□-□□□□	1	1 unit	113	3.100
	160	64 ... 160	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL27 16-1UJ4□-□□□□	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL37 20-1UJ4□-□□□□	1	1 unit	113	3.300
	250	100 ... 250	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL37 25-1UJ4□-□□□□	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 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL47 31-1UJ46-□□□□	1	1 unit	113	7.600
	400	160 ... 400	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL47 40-1UJ46-□□□□	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	1.5 ... $9 \times I_R$	3VL57 63-1UJ46-□□□□	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	1.5 ... $7 \times I_R$	3VL67 80-1UJ46-□□□□	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL77 10-1UJ46-□□□□	1	1 unit	113	33.500
	1250	500 ... 1250	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	3VL77 12-1UJ46-□□□□	1	1 unit	113	33.500
VL1600/3VL8 ¹⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	1.5 ... $8 \times I_R$	3VL87 16-1UJ40-□□□□	1	1 unit	113	40.800

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

²⁾ N = 100 % protection for $I_n \leq 100$ A.

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Molded Case Circuit Breakers

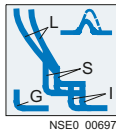
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

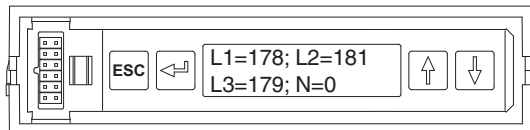
4-pole

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) S	Ground-fault protection "G" I_g	DT	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".					(N)
	A	A	A	A	A		Order No. Order No. supplement required, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg

4-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSIG, LSING



NSE0_00697



NSE0_02129

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	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 06-1UN4 □□□□	1	1 unit	113	3.100
	100	40 ... 100	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 10-1UN4 □□□□	1	1 unit	113	3.100
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL27 16-1UN4 □□□□	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL37 20-1UN4 □□□□	1	1 unit	113	3.300
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL37 25-1UN4 □□□□	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	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL47 31-1UN46 □□□□	1	1 unit	113	7.600
	400	160 ... 400	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL47 40-1UN46 □□□□	1	1 unit	113	7.600
VL630/3VL5	630	252 ... 630	$1.25 \dots 10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	3VL57 63-1UN46 □□□□	1	1 unit	113	11.700
VL800/3VL6	800	320 ... 800	$1.25 \dots 8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	3VL67 80-1UN46 □□□□	1	1 unit	113	20.500
VL1250/3VL7	1000	400 ... 1000	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL77 10-1UN46 □□□□	1	1 unit	113	33.500
	1250	500 ... 1250	$1.25 \dots 11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL77 12-1UN46 □□□□	1	1 unit	113	33.500
VL1600/3VL8 ¹⁾	1600	640 ... 1600	$1.25 \dots 9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	3VL87 16-1UN40 □□□□	1	1 unit	113	40.800

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

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Molded Case Circuit Breakers

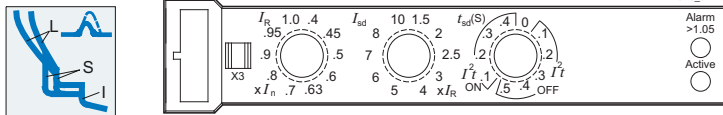
3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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) S	DT	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". Order No. Order No. supplement required, see page 2/58 Price see page 2/56 PU (UNIT, SET, M) PS*/P. unit PG Weight per PU approx. kg				
	A	A	A	A						

4-pole, fixed-mounted, for system protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSI



ETU20, LSI function for time-based discrimination

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

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

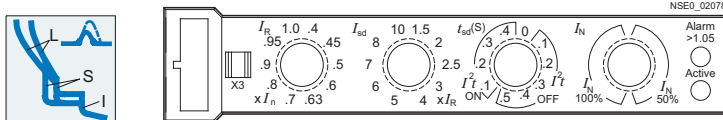
3
6

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



ETU20, LSIN function for time-based discrimination

With adjustable overcurrent releases, non-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 %

VL160/3VL2	63	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL27 06-1□□4□-□□□□	1	1 unit	113	3.100
	100	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL27 10-1□□4□-□□□□	1	1 unit	113	3.100
	160	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL27 16-1□□4□-□□□□	1	1 unit	113	3.100
VL250/3VL3	200	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL37 20-1□□4□-□□□□	1	1 unit	113	3.300
	250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	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	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL47 31-1□□46-□□□□	1	1 unit	113	7.600
	400	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL47 40-1□□46-□□□□	1	1 unit	113	7.600
VL630/3VL5	630	$0.4 \dots 1.0 \times I_n$	$10 \times I_n$	$1.5 \dots 9 \times I_R$	3VL57 63-1□□46-□□□□	1	1 unit	113	11.700
VL800/3VL6	800	$0.4 \dots 1.0 \times I_n$	$8 \times I_n$	$1.5 \dots 7 \times I_R$	3VL67 80-1□□46-□□□□	1	1 unit	113	20.500
VL1250/3VL7	1000	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL77 10-1□□46-□□□□	1	1 unit	113	33.500
	1250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL77 12-1□□46-□□□□	1	1 unit	113	33.500
VL1600/3VL8 ¹⁾	1600	$0.4 \dots 1.0 \times I_n$	$9 \times I_n$	$1.5 \dots 8 \times I_R$	3VL87 16-1□□40-□□□□	1	1 unit	113	40.800

- Without communication preparation
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

TF
NF
LF

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

• For more information see also chapters "Measuring Devices and Power Monitoring" and "Software".

Communication:

- For accessories, see page 2/93.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H					(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					(L)
	Order No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg		Order No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Order No. supplement required, see page 2/58							Order No. supplement required, see page 2/58					

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

3
6

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

TE
NE

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

3
6

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

TE
NE

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

3
6

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

TF
NF
LF

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

3
6

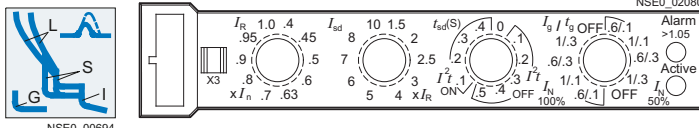
3VL47 31-3□□46-□□□□	1	1 unit	113	7.600
3VL47 40-3□□46-□□□□	1	1 unit	113	7.600
3VL57 63-3□□46-□□□□	1	1 unit	113	11.700
3VL67 80-3□□46-□□□□	1	1 unit	113	20.500
3VL77 10-3□□46-□□□□	1	1 unit	113	33.500
3VL77 12-3□□46-□□□□	1	1 unit	113	33.500
3VL87 16-3□□40-□□□□	1	1 unit	113	40.800

TF
NF
LF

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) S	Ground-fault protection "G" I_g	DT	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".					(N)
	A	A	A	A	A		Order No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							Order No. supplement required, see page 2/58					kg

**4-pole, fixed-mounted, for system protection - generator protection,
63 A to 1600 A, Electronic Trip Units 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 $t_g = 0.1 \dots 0.3$ 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	3VL27 06-1□□4□-□□□□	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	3VL27 10-1□□4□-□□□□	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	3VL27 16-1□□4□-□□□□	1	1 unit	113	3.100
VL250/3VL3	200	80 ... 200	$11 \times I_n$	1.5 ... 10 $\times I_R$	0.6 ... 1 $\times I_n$, OFF	3VL37 20-1□□4□-□□□□	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	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

36

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

- Without communication preparation
- With communication preparation

TH
NH

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

Communication:

- For accessories, [see page 2/93](#).
- For more information [see also chapters "Measuring Devices and Power Monitoring" and "Software"](#).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H					(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L					(L)
	Order No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG			Order No.	Price see page 2/56	PU (UNIT, SET, M)	PS*/P. unit	PG	
	Order No. supplement required, see page 2/58							Order No. supplement required, see page 2/58					
						kg							kg
	3VL27 06-2□□4□-□□□□		1	1 unit	113	3.100		3VL27 06-3□□4□-□□□□		1	1 unit	113	3.100
	3VL27 10-2□□4□-□□□□		1	1 unit	113	3.100		3VL27 10-3□□4□-□□□□		1	1 unit	113	3.100
	3VL27 16-2□□4□-□□□□		1	1 unit	113	3.100		3VL27 16-3□□4□-□□□□		1	1 unit	113	3.100
	3VL37 20-2□□4□-□□□□		1	1 unit	113	3.300		3VL37 20-3□□4□-□□□□		1	1 unit	113	3.300
	3VL37 25-2□□4□-□□□□		1	1 unit	113	3.300		3VL37 25-3□□4□-□□□□		1	1 unit	113	3.300
	3							3					
	6							6					
	3VL47 31-2□□46-□□□□		1	1 unit	113	7.600		3VL47 31-3□□46-□□□□		1	1 unit	113	7.600
	3VL47 40-2□□46-□□□□		1	1 unit	113	7.600		3VL47 40-3□□46-□□□□		1	1 unit	113	7.600
	3VL57 63-2□□46-□□□□		1	1 unit	113	11.700		3VL57 63-3□□46-□□□□		1	1 unit	113	11.700
	3VL67 80-2□□46-□□□□		1	1 unit	113	20.500		3VL67 80-3□□46-□□□□		1	1 unit	113	20.500
	3VL77 10-2□□46-□□□□		1	1 unit	113	33.500		3VL77 10-3□□46-□□□□		1	1 unit	113	33.500
	3VL77 12-2□□46-□□□□		1	1 unit	113	33.500		3VL77 12-3□□46-□□□□		1	1 unit	113	33.500
	3VL87 16-2□□40-□□□□		1	1 unit	113	40.800		3VL87 16-3□□40-□□□□		1	1 unit	113	40.800
	TH							TH					
	NH							NH					

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

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 breaking capacity N See "Overview".					
				Order No. Order No. supplement required, see page 2/58	Basic price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	A	A							

4-pole, fixed-mounted, for safe disconnection,
100 A to 1600 A, magnetic trip units I



NSE0_00708

Non-automatic molded case circuit breakers¹⁾, 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)

VL160X/3VL1	100	1800	3VL17 10-1EE4□-□□□□	1	1 unit	113	2.500
	160	1800	3VL17 16-1EE4□-□□□□	1	1 unit	113	2.500
VL160/3VL2	100	2500	3VL27 10-1EE4□-□□□□	1	1 unit	113	3.000
	160	2500	3VL27 16-1EE4□-□□□□	1	1 unit	113	3.000
VL250/3VL3	250	3500	3VL37 25-1EE4□-□□□□	1	1 unit	113	3.200

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

- Connection with box terminal

- Connection with screw terminal not in conjunction with RCD module at 3VL1

3
6

VL400/3VL4	400	4000	3VL47 40-1EE46-□□□□	1	1 unit	113	7.400
VL630/3VL5	630	6300	3VL57 63-1EE46-□□□□	1	1 unit	113	11.200
VL800/3VL6	800	6500	3VL67 80-1EE46-□□□□	1	1 unit	113	19.900
VL1250/3VL7	1250	12000	3VL77 12-1EE46-□□□□	1	1 unit	113	31.000
VL1600/3VL8 ²⁾	1600	14400	3VL87 16-1EE40-□□□□	1	1 unit	113	38.300

¹⁾ See also chapter "Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

2

DT	I_{cu} up to 70 kA at 415 V, high breaking capacity H						(H)	DT	I_{cu} up to 100 kA at 415 V, very high breaking capacity L						(L)
	Order No.	Basic price per PU	PU (UNIT, SET,	PS*/P. unit	PG	Weight per PU approx.			Order No.	Basic price per PU	PU (UNIT, SET,	PS*/P. unit	PG	Weight per PU approx.	
	Order No. supplement required, see page 2/58					kg			Order No. supplement required, see page 2/58					kg	

3VL17 10-2EE4□-□□□□
3VL17 16-2EE4□-□□□□

1 1 unit 113 2.500
1 1 unit 113 2.500

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3VL27 10-2EE4□-□□□□
3VL27 16-2EE4□-□□□□

1 1 unit 113 3.000
1 1 unit 113 3.000

3VL27 10-3EE4□-□□□□
3VL27 16-3EE4□-□□□□

1 1 unit 113 3.000
1 1 unit 113 3.000

3VL37 25-2EE4□-□□□□

1 1 unit 113 3.200

3VL37 25-3EE4□-□□□□

1 1 unit 113 3.200

3
6

3
6

3VL47 40-2EE46-□□□□

1 1 unit 113 7.400

3VL47 40-3EE46-□□□□

1 1 unit 113 7.400

3VL57 63-2EE46-□□□□

1 1 unit 113 11.200

3VL57 63-3EE46-□□□□

1 1 unit 113 11.200

3VL67 80-2EE46-□□□□

1 1 unit 113 19.900

3VL67 80-3EE46-□□□□

1 1 unit 113 19.900

3VL77 12-2EE46-□□□□

1 1 unit 113 31.000

3VL77 12-3EE46-□□□□

1 1 unit 113 31.000

3VL87 16-2EE40-□□□□

1 1 unit 113 38.300

3VL87 16-3EE40-□□□□

1 1 unit 113 38.300

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

4-pole

Order No. supplement (for complete Order No., see pages 2/42 to 2/52)	Breaking capacity	Type	VL160		VL250		VL400		VL630		VL800		VL1250		VL1600			
			3VL2		3VL3		3VL4		3VL5		3VL6		3VL7		3VL8			
			Rated current I_n															
3VL.7.. - .□□4-.... 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				
			Price															
ETU10	TB		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU10	NB		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU10	TA		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU10	NA		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU10	LA		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU12	TN		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU12	NN		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU40	UJ		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU42	UN		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU20	TE		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU20	NE		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU20	TF		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU20	NF		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU20	LF		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU22	TH		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		
ETU22	NH		✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓		

✓ Available

Molded Case Circuit Breakers

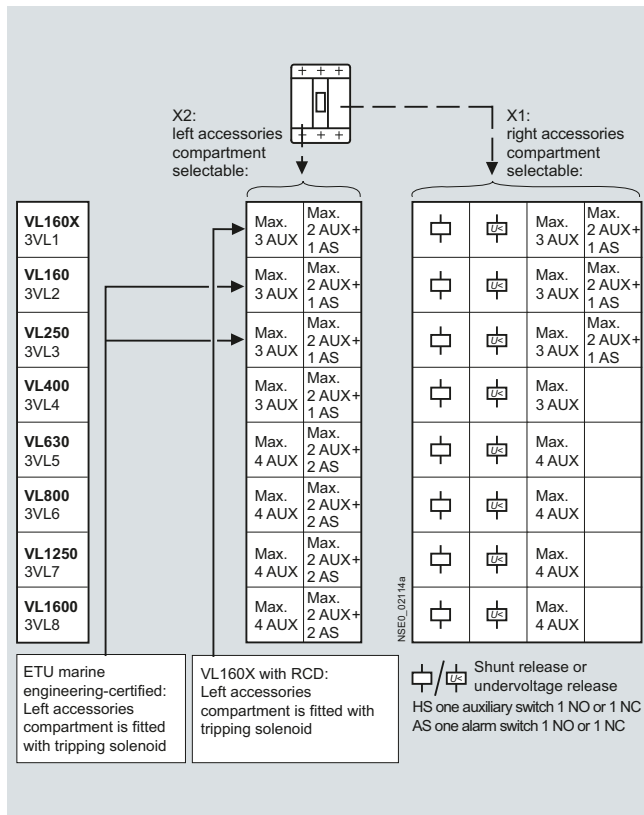
3VL Molded Case Circuit Breakers up to 1600 A, IEC

Options

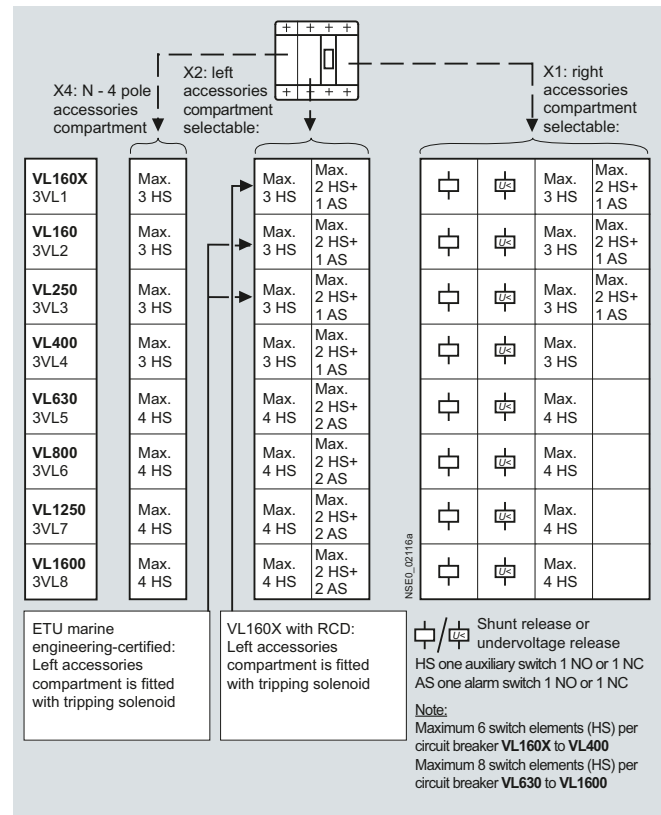
2

Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers

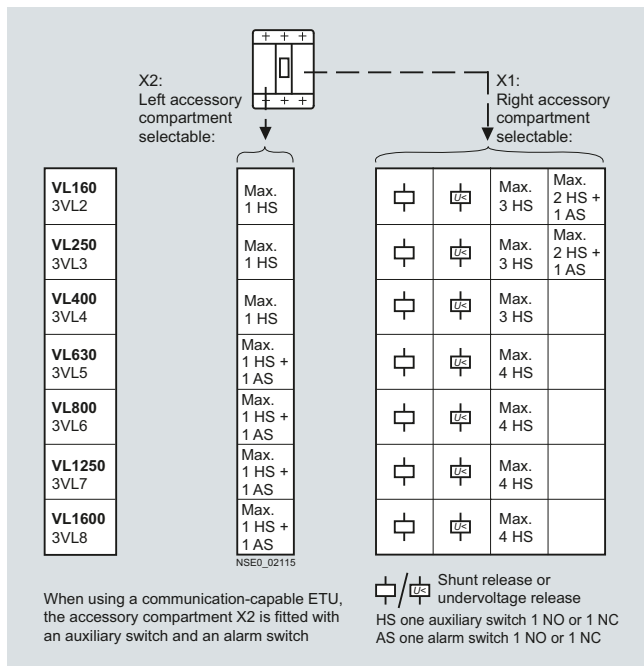
3-pole circuit breakers without communication preparation



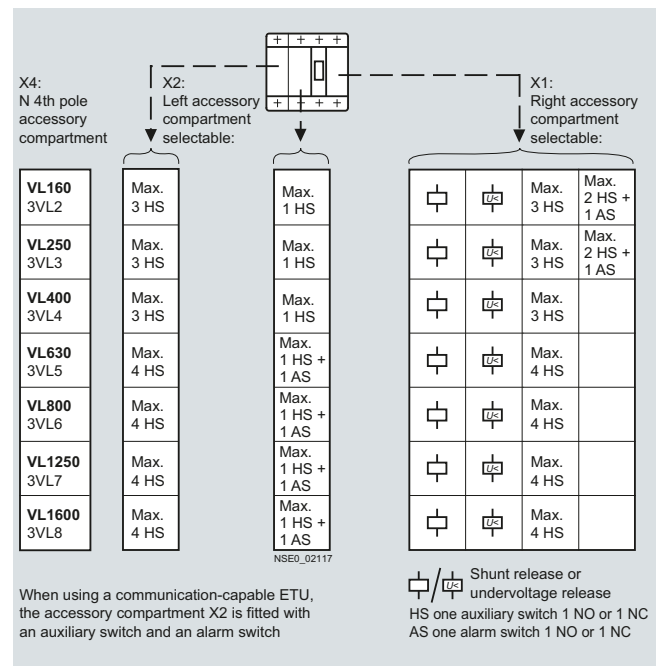
4-pole circuit breakers without communication preparation



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.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Options

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

Rated control supply voltage U_s /frequency	Order No. supplement	Circuit breakers Type	
50/60 Hz AC DC	3VL.....-.....- □ □ ..	VL160X to VL400/ 3VL1 to 3VL4	VL630 to VL1600/ 3VL5 to 3VL8
		Additional price	Additional price
3- or 4-pole			
Without auxiliary release	0 A	None	None
With undervoltage releases			
Only right pole			
V AC	V DC		
--	12	2 N ✓	✓
--	24	2 P ✓	✓
--	48	2 U ✓	✓
--	60	2 V ✓	✓
--	110 ... 127	2 R ✓	✓
--	220 ... 250	2 S ✓	✓
24	--	2 D ✓	✓
110 ... 127	--	2 G ✓	✓
220 ... 250	--	2 H ✓	✓
208	--	2 M ✓	✓
277	--	2 Q ✓	✓
380 ... 415	--	2 J ✓	✓
440 ... 480	--	2 K ✓	✓
500 ... 525	--	2 L ✓	✓
With shunt releases			
Only right pole			
V AC	V DC		
24	24	8 C ✓	✓
--	48 ... 60	8 J ✓	✓
--	110 ... 127	8 K ✓	✓
--	220 ... 250	8 Q ✓	✓
48 ... 60	--	8 M ✓	✓
110 ... 127	--	8 R ✓	✓
208 ... 277	--	8 T ✓	✓
380 ... 600	--	8 V ✓	✓

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

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

✓ Additional price

-- Not available

¹⁾ Except for installation in the left accessory compartment of the VL160X molded case 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 feasible for use of marine engineering ETU and additional use of 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.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Options

2

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
3VL - -Z
 and additional order code(s)

Additional price

☐ ☐ + . . . + . . .

Code for further versions -Z

For fixed-mounted circuit breakers (wired in factory)

3- or 4-pole

Prewired internal accessories

Connecting cables (3 m long) brought out at the rear
 This option "L02" can be selected only in combination with internal accessories (page 2/58).

For VL160X to VL1600 (3VL1 to 3VL8)

L 0 2

✓

Prewired connecting cables for motorized operating mechanisms with stored energy mechanisms (SEO)

Connecting cables on the circuit breaker for motorized operating mechanisms (3 m long).
 On VL160X to VL400 brought out at the top. On VL630 and VL800 brought out on the right.
 Option "L12" can only be selected in combination with motorized operating mechanisms (order codes "M24", "M42", "M60", "M11" and "M22").

For VL160X to VL800 (3VL1 to 3VL6)

L 1 2

✓

Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (24 V DC)

Motorized operating mechanism not prewired; if wiring 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 not be specified in addition.

Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)

M 2 4

✓

VL400 (3VL4)

✓

VL630, VL800 (3VL5, 3VL6)

✓

Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (42 ... 48 V AC/DC)

Motorized operating mechanism not prewired; if wiring 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 not be specified in addition.

Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)

M 4 2

✓

VL400 (3VL4)

✓

VL630, VL800 (3VL5, 3VL6)

✓

Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (60 V AC/DC)

Motorized operating mechanism not prewired; if wiring 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 not be specified in addition.

Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)

M 6 0

✓

VL400 (3VL4)

✓

VL630, VL800 (3VL5, 3VL6)

✓

Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (110 ... 127 V AC/DC)

Motorized operating mechanism not prewired; if wiring 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 not be specified in addition.

Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)

M 1 1

✓

VL400 (3VL4)

✓

VL630, VL800 (3VL5, 3VL6)

✓

Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (220 ... 250 V AC/DC)

Motorized operating mechanism not prewired; if wiring 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 not be specified in addition.

Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3)

M 2 2

✓

VL400 (3VL4)

✓

VL630, VL800 (3VL5, 3VL6)

✓

✓ Additional price

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Options

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
3VL - Z
 and additional order code(s)

☐ ☐ ☐ + . . . + . . .

Additional price

Code for further versions -Z

For fixed-mounted circuit breakers (wired in factory)

3- or 4-pole

Pre-mounted motorized operating mechanisms (24 V DC) on circuit breaker, not synchronizable

If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.

Available with
VL160X
(3VL1)

VL160, VL250
(3VL2, 3VL3)

VL400 (3VL4)

VL630, VL800 (3VL5, 3VL6)

VL1250, VL1600 (3VL7, 3VL8)

M 2 5

✓

Pre-mounted motorized operating mechanisms (42 ... 60 V AC/DC) on circuit breaker, not synchronizable

If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.

Available with
VL160X
(3VL1)

VL160, VL250
(3VL2, 3VL3)

VL400 (3VL4)

VL630, VL800 (3VL5, 3VL6)

VL1250, VL1600 (3VL7, 3VL8)

M 4 3

✓

Pre-mounted motorized operating mechanisms (110 ... 127 V AC/DC) on circuit breaker, not synchronizable

If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.

Available with
VL160X
(3VL1)

VL160, VL250
(3VL2, 3VL3)

VL400 (3VL4)

VL630, VL800 (3VL5, 3VL6)

VL1250, VL1600 (3VL7, 3VL8)

M 1 2

✓

Pre-mounted motorized operating mechanisms (220 ... 250 V AC/DC) on circuit breaker, not synchronizable

If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition.

Available with
VL160X
(3VL1)

VL160, VL250
(3VL2, 3VL3)

VL400 (3VL4)

VL630, VL800 (3VL5, 3VL6)

VL1250, VL1600 (3VL7, 3VL8)

M 2 3

✓

✓

✓

✓

✓

✓ Additional price

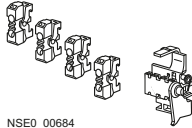
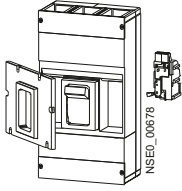
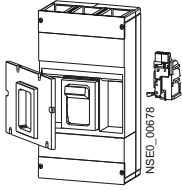
Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Selection and ordering data

Wiring directly to accessories		DT	For VL160X to VL400 (3VL1 to 3VL4)		PU (UNIT, SET, M)	PS*/ P. unit	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 .)									
Auxiliary switches (HS) and alarm switches (AS)									
For retrofitting									
 NSE0_00684 3VL9 400-2A.00	Assembly kits	Mounting side							
	2 HS (1 NO + 1 NC)	N, left ¹⁾ , right	3VL9 400-2AB00		1	1 unit	113	0.056	
	4 HS (2 NO + 2 NC)	N, left ¹⁾ , right	--						
	2 HS (1 NC + 1 NO)	left ¹⁾ , right ³⁾	3VL9 400-2AD00		1	1 unit	113	0.089	
	+ 1 AS (1 NO) (assembly kit)	left ¹⁾	--						
Additional auxiliary switch/alarm switch combinations			See page 2/63.						
Shunt releases ²⁾									
For retrofitting									
 NSE0_00678 3VL9 400-1S.00, 3VL9 400-1U.00	V AC	V DC	Mounting side						
	24	24	Right pole only	3VL9 400-1SC00		1	1 unit	113	0.100
	--	48 ... 60	Right pole only	3VL9 400-1SJ00		1	1 unit	113	0.103
	--	110 ... 127	Right pole only	3VL9 400-1SK00		1	1 unit	113	0.099
	--	220 ... 250	Right pole only	3VL9 400-1SQ00		1	1 unit	113	0.098
	48 ... 60	--	Right pole only	3VL9 400-1SM00		1	1 unit	113	0.995
	110 ... 127	--	Right pole only	3VL9 400-1SR00		1	1 unit	113	0.101
	208 ... 277	--	Right pole only	3VL9 400-1ST00		1	1 unit	113	0.097
	380 ... 600	--	Right pole only	3VL9 400-1SV00		1	1 unit	113	0.106
	Undervoltage releases								
For retrofitting									
 NSE0_00678 3VL9 400-1S.00, 3VL9 400-1U.00	V AC	V DC	Mounting side						
	--	12	Right pole only	3VL9 400-1UN00		1	1 unit	113	0.101
	--	24	Right pole only	3VL9 400-1UP00		1	1 unit	113	0.099
	--	48	Right pole only	3VL9 400-1UU00		1	1 unit	113	0.100
	--	60	Right pole only	3VL9 400-1UV00		1	1 unit	113	0.098
	24	--	Right pole only	3VL9 400-1UD00		1	1 unit	113	0.104
	110 ... 127	--	Right pole only	3VL9 400-1UG00		1	1 unit	113	0.104
	--	110 ... 127	Right pole only	3VL9 400-1UR00		1	1 unit	113	0.099
	208	--	Right pole only	3VL9 400-1UM00		1	1 unit	113	0.103
	220 ... 250	--	Right pole only	3VL9 400-1UH00		1	1 unit	113	0.105
	--	220 ... 250	Right pole only	3VL9 400-1US00		1	1 unit	113	0.102
	277	--	Right pole only	3VL9 400-1UQ00		1	1 unit	113	0.100
	380 ... 415	--	Right pole only	3VL9 400-1UJ00		1	1 unit	113	0.103
	440 ... 480	--	Right pole only	3VL9 400-1UK00		1	1 unit	113	0.103
	500 ... 525	--	Right pole only	3VL9 400-1UL00		1	1 unit	113	0.103
	Time-delay devices for undervoltage releases (220 ... 250 V DC)								
	Rated control supply voltage U_s 220 ... 250 V AC								
	Delay time > 200 ms								
					3TX4 701-0AN1	1	1 unit	41B	0.167
	Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)								
	Rated control supply voltage U_s 220 V ... 240 V AC/220 V ... 250 V DC								
	Storage time 5 min								
					3WL9 111-0BA14-0AA0	1	1 unit	103	0.520

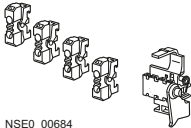
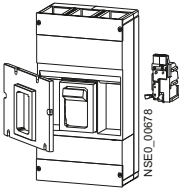
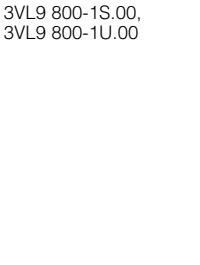
- ¹⁾ Except for installation in the left accessory compartment of the VL160X (3VL1) molded case circuit breakers with RCD module.
- ²⁾ Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/support).
- ³⁾ In the case of VL400 (3VL4):
Unsuitable for mounting in the right-hand accessory compartment.
The 3VL9 400-2AB00 assembly kit with auxiliary switches only is recommended.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Wiring directly to accessories		DT	For VL630 up to VL1600 (3VL5 to 3VL8)	PU (UNIT, SET, M)	PS*/ P. unit	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 .)							
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	3VL9 800-2AC00		1	1 unit	113 0.091
	2 HS (1 NC + 1 NO)	Left, right	--				
	+ 1 AS (1 NO) (assembly kit)	Left	3VL9 800-2AE00		1	1 unit	113 0.085
Additional auxiliary switch/alarm switch combinations See page 2/63.							
Shunt releases¹⁾							
For retrofitting							
	V AC	V DC	Mounting side				
	24	24	Right pole only	3VL9 800-1SC00	1	1 unit	113 0.151
	--	48 ... 60	Right pole only	3VL9 800-1SJ00	1	1 unit	113 0.150
	--	110 ... 127	Right pole only	3VL9 800-1SK00	1	1 unit	113 0.153
	--	220 ... 250	Right pole only	3VL9 800-1SQ00	1	1 unit	113 0.150
	48 ... 60	--	Right pole only	3VL9 800-1SM00	1	1 unit	113 0.170
	110 ... 127	--	Right pole only	3VL9 800-1SR00	1	1 unit	113 0.155
	208 ... 277	--	Right pole only	3VL9 800-1ST00	1	1 unit	113 0.147
	380 ... 600	--	Right pole only	3VL9 800-1SV00	1	1 unit	113 0.150
	Undervoltage releases						
	For retrofitting						
	V AC	V DC	Mounting side				
	--	12	Right pole only	3VL9 800-1UN00	1	1 unit	113 0.114
	--	24	Right pole only	3VL9 800-1UP00	1	1 unit	113 0.119
	--	48	Right pole only	3VL9 800-1UU00	1	1 unit	113 0.114
	--	60	Right pole only	3VL9 800-1UV00	1	1 unit	113 0.115
	24	--	Right pole only	3VL9 800-1UD00	1	1 unit	113 0.118
	110 ... 127	--	Right pole only	3VL9 800-1UG00	1	1 unit	113 0.114
	--	110 ... 127	Right pole only	3VL9 800-1UR00	1	1 unit	113 0.115
	208	--	Right pole only	3VL9 800-1UM00	1	1 unit	113 0.114
	220 ... 250	--	Right pole only	3VL9 800-1UH00	1	1 unit	113 0.112
	--	220 ... 250	Right pole only	3VL9 800-1US00	1	1 unit	113 0.115
	277	--	Right pole only	3VL9 800-1UQ00	1	1 unit	113 0.138
	380 ... 415	--	Right pole only	3VL9 800-1UJ00	1	1 unit	113 0.115
	440 ... 480	--	Right pole only	3VL9 800-1UK00	1	1 unit	113 0.113
	500 ... 525	--	Right pole only	3VL9 800-1UL00	1	1 unit	113 0.116
	Time-delay devices for undervoltage releases						
	(220 ... 250 V DC)						
	Rated control supply voltage U_s						
	220 ... 250 V AC						
	Delay time > 200 ms						
			3TX4 701-0AN1		1	1 unit	41B 0.167
	Storage devices for shunt releases						
	(208 ... 277 V AC/220 ... 250 V DC)						
	Rated control supply voltage U_s						
	220 V ... 240 V AC/220 V ... 250 V DC						
	Storage time 5 min						
			3WL9 111-0BA14-0AA0		1	1 unit	103 0.520

¹⁾ Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/support).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

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

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 ¹⁾ 2 HS + 1 AS ¹⁾²⁾		3VL9 400-2AH00 --		1	1 unit	113	0.038
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS		3VL9 816-2AL00 --		1	1 unit	113	0.055

For installation in the left pole of the circuit breaker

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS ¹⁾ 2 HS + 1 AS ¹⁾²⁾		3VL9 400-2AH00 3VL9 400-2AJ10		1	1 unit	113	0.038 0.040
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS		3VL9 816-2AL00 3VL9 816-2AN10		1	1 unit	113	0.055 0.058

For installation in the right pole of the circuit breaker

VL160X, VL160, VL250, VL400 (3VL1 to 3VL4) ²⁾	Up to 3 HS ¹⁾ 2 HS + 1 AS ¹⁾²⁾		3VL9 400-2AH00 3VL9 400-2AJ20		1	1 unit	113	0.038 0.039
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS		3VL9 816-2AL00 --		1	1 unit	113	0.055

¹⁾ Except for installing in the left pole for VL160X (3VL1) molded case circuit breakers with RCD module.

²⁾ In the case of VL400: 3VL9 400-2AJ20 unsuitable for mounting in the right-hand accessory compartment.

For auxiliary/alarm switches	DT	Circuit breakers Type	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		VL160X to VL1600 (3VL1 to 3VL8)				
		Order No.	Price per PU			

Contact blocks for auxiliary and alarm switch combinations

1 NO		3SB34 00-0J		1	1 unit	41J	0.009
1 NC		3SB34 00-0K		1	1 unit	41J	0.009

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:

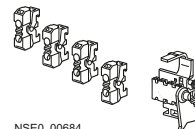
1 HS or 1 AS with NO contact 3SB34 00-0J

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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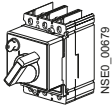
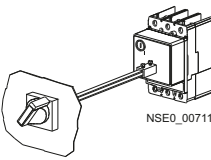
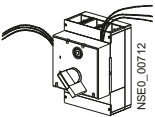
For retrofitting/possible complement see Technical Information at www.siemens.com/lowvoltage/support.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

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Accessories and spare parts

Version	DT	For VL160X to VL250 (3VL1 to 3VL3) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Operating mechanisms							
 3VL9 .00-3H.00	3- or 4-pole						
	Front-operated rotary operating mechanisms¹⁾ For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 ²⁾ , <u>black</u> , max. 3 padlocks <u>EMERGENCY-STOP version</u> Red knob, yellow indicator plate Safety locks for installation by the customer see pages 2/86 to 2/90 .		3VL9 300-3HA00	1	1 unit	113	0.534
			3VL9 300-3HC00	1	1 unit	113	0.500
 3VL9 .00-3H.05	Front-operated rotary operating mechanisms with shaft stub, without knob¹⁾ Without leading auxiliary switch, for auxiliary switches see below .		3VL9 300-3HE00	1	1 unit	113	0.520
	Door-coupling rotary operating mechanisms, complete¹⁾ Installation in doors and covers Degree of protection IP65, including handle <u>ti-grey</u> , with masking plate, indicator plate, removable door coupling (die cast with reduced tol- erance compensation), extension shaft (8 × 8 mm), length 300 mm and front-operated rotary operating mechanism for the respective cir- cuit breaker, lockable with up to 3 padlocks, with door interlocking <u>EMERGENCY-STOP version</u> Red knob, yellow indicator plate, without leading auxiliary switch Safety locks for installation by the customer see pages 2/86 to 2/90 .		3VL9 300-3HF05	1	1 unit	113	0.872
			3VL9 300-3HG05	1	1 unit	113	0.850
 3VL9 .00-3A.10	Leading auxiliary switches for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism or side panel rotary operating mechanism Standard or EMERGENCY-STOP version "OFF after ON" Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables		3VL9 300-3AS10	1	1 unit	113	0.100
			3VL9 300-3AT10	1	1 unit	113	0.136
			3VL9 300-3AU10	1	1 unit	113	0.105
			3VL9 300-3AW10	1	1 unit	113	0.155
	Side panel rotary operating mechanisms, complete¹⁾ 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 - With 1000 mm Bowden wire - With 1500 mm Bowden wire		3VL9 300-3HR10	1	1 unit	113	1.758
			3VL9 300-3HR20	1	1 unit	113	2.100
			3VL9 300-3HR30	1	1 unit	113	1.900
	Side panel rotary operating mechanisms, complete¹⁾ <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 - With 1000 mm Bowden wire - With 1500 mm Bowden wire		3VL9 300-3HR11	1	1 unit	113	2.100
			3VL9 300-3HR21	1	1 unit	113	2.100
			3VL9 300-3HR31	1	1 unit	113	2.100
	Retaining brackets, suitable for matching door- coupling rotary operating mechanisms, com- plete Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm - for 6 mm shaft		3VL9 300-3HP02	1	1 unit	113	0.409
			3VL9 300-3HP00	1	1 unit	113	0.385

Additional accessories and components for door-coupling ro-
tary operating mechanism, [see 2/69 and 2/71](#).

¹⁾ Not possible on VL160X with RCD module.

²⁾ IP40 with additional masking frame mounted on the door cutout.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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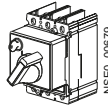
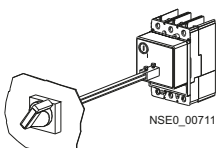
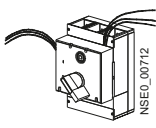
DT	For VL400 (3VL4)		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL630 (3VL5)		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Order No.	Price per PU						Order No.	Price per PU				
	3VL9 400-3HA00		1	1 unit	113	1.281		3VL9 600-3HA00		1	1 unit	113	1.373
	3VL9 400-3HC00		1	1 unit	113	1.291		3VL9 600-3HC00		1	1 unit	113	1.404
	3VL9 400-3HE00		1	1 unit	113	1.050		3VL9 600-3HE00		1	1 unit	113	1.310
	3VL9 400-3HF05		1	1 unit	113	1.510		3VL9 600-3HF05		1	1 unit	113	1.660
	3VL9 400-3HG05		1	1 unit	113	1.640		3VL9 600-3HG05		1	1 unit	113	1.640
	3VL9 400-3AS10		1	1 unit	113	0.096		3VL9 600-3AS10		1	1 unit	113	0.087
	3VL9 400-3AT10		1	1 unit	113	0.147		3VL9 600-3AT10		1	1 unit	113	0.151
	3VL9 400-3AU10		1	1 unit	113	0.101		3VL9 600-3AU10		1	1 unit	113	0.096
	3VL9 400-3AW10		1	1 unit	113	0.155		3VL9 600-3AW10		1	1 unit	113	0.150
	3VL9 400-3HR10		1	1 unit	113	2.640		3VL9 500-3HR10		1	1 unit	113	2.852
	3VL9 400-3HR20		1	1 unit	113	2.657		3VL9 500-3HR20		1	1 unit	113	2.852
	3VL9 400-3HR30		1	1 unit	113	2.690		3VL9 500-3HR30		1	1 unit	113	2.852
	3VL9 400-3HR11		1	1 unit	113	2.619		3VL9 500-3HR11		1	1 unit	113	2.870
	3VL9 400-3HR21		1	1 unit	113	2.660		3VL9 500-3HR21		1	1 unit	113	2.889
	3VL9 400-3HR31		1	1 unit	113	3.500		3VL9 500-3HR31		1	1 unit	113	2.940
	3VL9 400-3HP00		1	1 unit	113	0.516		3VL9 600-3HP00		1	1 unit	113	0.562
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Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

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Accessories and spare parts

Version	DT	For VL800 (3VL6)	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
		Order No.	Price per PU			kg	
Operating mechanisms							
 NSE0_00679	3- or 4-pole						
	Front-operated rotary operating mechanisms For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 ¹⁾ , <u>black</u> , max. 3 padlocks		3VL9 600-3HA00	1	1 unit	113	1.373
	<u>EMERGENCY-STOP version</u> Red knob, yellow indicator plate Safety locks for installation by the customer see pages 2/86 to 2/90 .		3VL9 600-3HC00	1	1 unit	113	1.404
3VL9 .00-3H.00							
Front-operated rotary operating mechanisms with shaft stub, without knob Without leading auxiliary switch, for auxiliary switches see below .		3VL9 600-3HE00		1	1 unit	113	1.310
 NSE0_00711	Door-coupling rotary operating mechanisms, complete, installation in doors and covers Degree of protection IP65, including handle, <u>ti-grey</u> , with masking plate, indicator plate, detachable door coupling (die cast, for VL800 (3VL6) with reduced tolerance compensation), extension shaft (8 × 8 mm for VL800 (3VL6), 12 × 12 mm for VL1250 (3VL7) and VL1600 (3VL8), length 300 mm and front-operated rotary operating mechanism for the respective circuit breaker, lockable with max. 3 padlocks, with door interlocking		3VL9 600-3HF05	1	1 unit	113	1.660
	<u>EMERGENCY-STOP version</u> , Red knob, yellow indicator plate, without leading auxiliary switch Safety locks for installation by the customer see pages 2/86 to 2/90 .		3VL9 600-3HG05	1	1 unit	113	1.640
3VL9 .00-3H.05							
 NSE0_00712	Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism Standard or EMERGENCY-STOP version "OFF after ON" Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables		3VL9 600-3AS10 3VL9 600-3AT10	1 1	1 unit 1 unit	113 113	0.087 0.151
			3VL9 600-3AU10 3VL9 600-3AW10	1 1	1 unit 1 unit	113 113	0.096 0.150
3VL9 .00-3A.10							
Retaining brackets suitable for matching door-coupling rotary operating mechanisms, complete Retaining bracket is mounted on the operating mechanism, recommended for extension shafts >250 mm		3VL9 600-3HP00		1	1 unit	113	0.562

Additional accessories and components for door-coupling rotary operating mechanism, [see 2/69 and 2/71](#).

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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DT	For VL1250 to VL1600 (3VL7 to 3VL8) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	3VL9 800-3HA00		1	1 unit	113	3.562
	3VL9 800-3HC00		1	1 unit	113	3.580
	3VL9 800-3HE00		1	1 unit	113	2.859
	3VL9 800-3HF05		1	1 unit	113	3.940
	3VL9 800-3HG05		1	1 unit	113	3.980
	3VL9 800-3AS20		1	1 unit	113	0.132
	3VL9 800-3AT20		1	1 unit	113	0.184
	3VL9 800-3AU10		1	1 unit	113	0.095
	3VL9 800-3AW10		1	1 unit	113	0.146
	3VL9 800-3HP00		1	1 unit	113	0.630

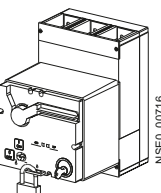
Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

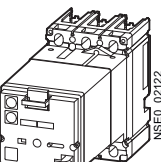
2

Accessories and spare parts

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Motorized operating mechanisms							
3- or 4-pole							
Motorized operating mechanisms with stored energy mechanisms (SEO) for synchronization tasks ¹⁾²⁾							
Degree of protection IP30, with locking device for 3 padlocks							
50/60 Hz V AC		V DC	For VL160X to VL250 (3VL1 to 3VL3)				
---		24	3VL9 300-3MJ00				
42 ... 48		42 ... 48	1	1 unit	113	2.755	
60		60	1	1 unit	113	2.810	
110 ... 127		110 ... 127	1	1 unit	113	2.773	
220 ... 250		220 ... 250	1	1 unit	113	2.782	
220 ... 250		220 ... 250	1	1 unit	113	2.802	
50/60 Hz V AC		V DC	For VL400 (3VL4)				
---		24	3VL9 400-3MJ00				
42 ... 48		42 ... 48	1	1 unit	113	4.610	
60		60	1	1 unit	113	4.594	
110 ... 127		110 ... 127	1	1 unit	113	4.596	
220 ... 250		220 ... 250	1	1 unit	113	4.602	
220 ... 250		220 ... 250	1	1 unit	113	4.593	
50/60 Hz V AC		V DC	For VL630 and VL800 (3VL5 and 3VL6)				
---		24	3VL9 600-3MJ00				
42 ... 48		42 ... 48	1	1 unit	113	5.630	
60		60	1	1 unit	113	5.486	
110 ... 127		110 ... 127	1	1 unit	113	5.662	
220 ... 250		110 ... 127	1	1 unit	113	5.473	
220 ... 250		220 ... 250	1	1 unit	113	5.639	
Motorized operating mechanisms (MO) ²⁾							
Degree of protection IP30, with locking device for 3 padlocks							
50/60 Hz V AC		V DC	For VL160X (3VL1)				
---		24	3VL9 100-3MA10				
42 ... 60		42 ... 60	1	1 unit	113	1.807	
110 ... 127		110 ... 127	1	1 unit	113	1.790	
220 ... 250		110 ... 127	1	1 unit	113	1.770	
220 ... 250		220 ... 250	1	1 unit	113	1.802	
50/60 Hz V AC		V DC	For VL160 and VL250 (3VL2 and 3VL3)				
---		24	3VL9 300-3MA10				
42 ... 60		42 ... 60	1	1 unit	113	1.800	
110 ... 127		110 ... 127	1	1 unit	113	1.799	
220 ... 250		110 ... 127	1	1 unit	113	1.797	
220 ... 250		220 ... 250	1	1 unit	113	1.805	
50/60 Hz V AC		V DC	For VL400 (3VL4)				
---		24	3VL9 400-3MA10				
42 ... 60		42 ... 60	1	1 unit	113	2.298	
110 ... 127		110 ... 127	1	1 unit	113	2.330	
220 ... 250		110 ... 127	1	1 unit	113	2.320	
220 ... 250		220 ... 250	1	1 unit	113	2.325	
50/60 Hz V AC		V DC	For VL630 and VL800 (3VL5 and 3VL6)				
---		24	3VL9 600-3MA10				
42 ... 60		42 ... 60	1	1 unit	113	2.310	
110 ... 127		110 ... 127	1	1 unit	113	2.261	
220 ... 250		110 ... 127	1	1 unit	113	2.329	
220 ... 250		220 ... 250	1	1 unit	113	2.332	
50/60 Hz V AC		V DC	For VL1,250 and VL1600 (3VL7 and 3VL8)				
---		24	3VL9 800-3MJ00				
42 ... 48		42 ... 48	1	1 unit	113	7.910	
60		60	1	1 unit	113	7.945	
110 ... 127		110 ... 127	1	1 unit	113	7.945	
220 ... 250		110 ... 127	1	1 unit	113	7.861	
220 ... 250		220 ... 250	1	1 unit	113	7.865	



3VL9 .00-3M.00



3VL9 .00-3M.10

¹⁾ Not possible on VL160X with RCD module.

²⁾ For safety lock as an assembly kit for retrofitting see pages 2/86 to 2/90.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

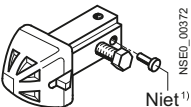
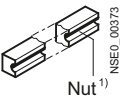
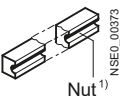
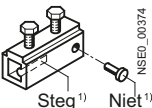
Accessories and spare parts

2

Switch-gear	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version ¹⁾	DT	Individual parts for 8UC7 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Type	Type	mm × mm				Order No.	Price per PU			kg
Individual parts for 8UC door-coupling rotary operating mechanisms²⁾										
Handles with masking plate (including flat gasket and fixing screws)										
	3VL1, 3VL2, 3VL3	8UC71	1	6 × 6 or 8 × 8	Standard EMERGENCY-STOP	8UC71 10-6BD 8UC71 20-8BD	1 1	1 unit 1 unit	103 103	0.185 0.183
	3VL4, 3VL5, 3VL6	8UC72	2	8 × 8	Standard EMERGENCY-STOP	8UC72 10-6BD 8UC72 20-8BD	1 1	1 unit 1 unit	103 103	0.189 0.217
	3VL7, 3VL8	8UC73	3	12 × 12	Standard EMERGENCY-STOP	8UC73 10-6BD 8UC73 20-8BD	1 1	1 unit 1 unit	103 103	0.507 0.488

¹⁾ Standard: Ti-grey handle, light-gray masking plate; EMERGENCY-STOP: Red handle, yellow masking plate.

²⁾ Cannot be used for side panel rotary operating mechanisms

Rotary operating mechanisms	Cross-section of the actuating shaft	DT	Individual parts for 8UC6 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Type	mm × mm		Order No.	Price per PU			kg
Individual parts for 8UC door-coupling rotary operating mechanisms							
Coupling drivers for 3VL							
	8UC71 (plastic)	6 × 6	8UC70 11-2AA	1	1 unit	103	0.051
	8UC71/8UC72 ²⁾ (die cast)	8 × 8	8UC60 17-2AA	1	1 unit	103	0.047
	8UC73/74 (die cast)	12 × 12	8UC60 14	1	1 unit	103	0.233
Extension shafts 300 mm long							
	8UC71	6 × 6	8UC60 31	1	1 unit	103	0.068
	8UC71/8UC72	8 × 8	8UC60 32	1	1 unit	103	0.135
	8UC73	10 × 10	8UC60 33	1	1 unit	103	0.215
	8UC73/74	12 × 12	8UC60 34	1	1 unit	103	0.316
Extension shafts 600 mm long							
	8UC71	6 × 6	8UC60 81	1	1 unit	103	0.136
	8UC71/8UC72	8 × 8	8UC60 82	1	1 unit	103	0.265
	8UC73	10 × 10	8UC60 83	1	1 unit	103	0.424
	8UC73/74	12 × 12	8UC60 84	1	1 unit	103	0.628
Shaft couplings							
	8UC71	6 × 6	8UC60 21	1	1 unit	103	0.027
	8UC72	8 × 8	8UC60 22	1	1 unit	103	0.022
	8UC73	10 × 10	8UC60 23	1	1 unit	103	0.083
	8UC73/74	12 × 12	8UC60 24	1	1 unit	103	0.078
Reducers							
	8UC71	8 × 8 to 6 × 6	8UC70 58	1	1 unit	103	0.024
	8UC72	12 × 12 to 8 × 8	8UC70 50	1	1 unit	103	0.081

¹⁾ Non-interchangeability features.

²⁾ Shortened coupling driver with reduced tolerance compensation.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

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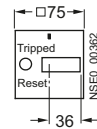
Accessories and spare parts

Switchgear	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	Illustrated: Handle, masking plate
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8UC door-coupling rotary operating mechanisms

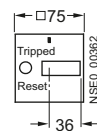
8UC71 - 3VL molded case circuit breakers

Type	A	mm	Nm	Size
3VL1	16 ... 160	6 × 6	4	1
3VL2	50 ... 160	6 × 6	4	
3VL3	200... 250	6 × 6	4	



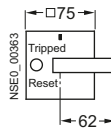
3VL1	16 ... 160	8 × 8	4	1
3VL2	50 ... 160	8 × 8	4	
3VL3	200... 250	8 × 8	4	

(Supplied with door-coupling rotary operating mechanism, complete 3VL9 300-3H.05)



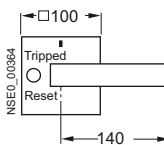
8UC72 - 3VL molded case circuit breakers

3VL4	200 ... 400	8 × 8	9	2
3VL5	315 ... 600	8 × 8	9	
3VL6	320 ... 800	8 × 8	9	



8UC73 - 3VL molded case circuit breakers

3VL7	400 ... 1250	12 × 12	25	3
3VL8	640 ... 1600	12 × 12	25	



¹⁾ 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 2/64 to 2/67.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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Version	DT	Rotary operating mechanisms, complete ¹⁾	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.	Individual parts of the rotary operating mechanism			
Standard: Ti-grey handle, light-gray masking plate; EMERGENCY- STOP: Red handle, yellow masking plate	Order No.	Price per PU					Handle with masking plate	Coupling drivers	Extension shaft (length 300 mm)	Reducer/ shaft coupling
							kg Order No.	Order No.	Order No.	Order No.
Standard EMERGENCY- STOP (coupling driver made of plastic)	8UC71 11-6BD15 8UC71 21-8BD15		1	1 unit	103	0.374	8UC71 10-6BD	□ 6 mm 8UC70 11-2AA	□ 6 mm 8UC60 31	□ 8 mm by 6 mm 8UC70 58
			1	1 unit	103	0.340	8UC71 20-8BD	8UC70 11-2AA	8UC60 31	8UC70 58
Standard EMERGENCY- STOP (Die cast coupling driver with re- duced tolerance compensation)	8UC71 62-6BD22 8UC71 72-8BD22		1	1 unit	103	0.425	8UC71 10-6BD	□ 8 mm 8UC60 17-2AA	□ 8 mm 8UC60 32	□ 8 mm by 8 mm 8UC60 22
			1	1 unit	103	0.417	8UC71 20-8BD	8UC60 17-2AA	8UC60 32	8UC60 22
Standard EMERGENCY- STOP (Die cast coupling driver with re- duced tolerance compensation)	8UC72 62-6BD26 8UC72 62-8BD26		1	1 unit	103	0.486	8UC72 10-6BD	□ 8 mm 8UC60 17-2AA	□ 8 mm 8UC60 32	□ 12 mm by 8 mm 8UC70 50
			1	1 unit	103	0.485	8UC72 20-8BD	8UC60 17-2AA	8UC60 32	8UC70 50
Standard EMERGENCY- STOP (Die cast cou- pling driver)	8UC73 14-6BD44 8UC73 24-8BD44		1	1 unit	103	1.179	8UC73 10-6BD	□ 12 mm 8UC60 14	□ 12 mm 8UC60 34	□ 12 mm by 12 mm 8UC60 24
			1	1 unit	103	1.124	8UC73 20-8BD	8UC60 14	8UC60 34	8UC60 24

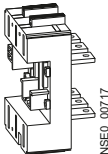
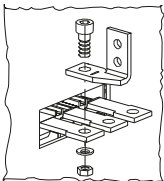
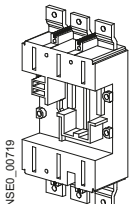
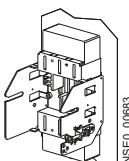
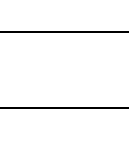
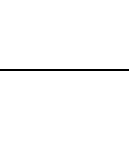
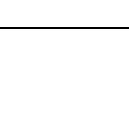
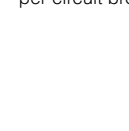
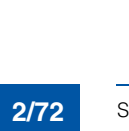
* You can order this quantity or a multiple thereof.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Version	DT	For VL160X (3VL1)	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
kg									
Plug-in versions/withdrawable versions									
3- or 4-pole									
 3VL9 .00-4PA30	Plug-in base assembly kits								
	Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin								
	Rear terminals								
	3-pole			3VL9 100-4PA30	1	1 unit	113	2.490	
	3-pole with RCD module			3VL9 100-4PB30	1	1 unit	113	2.839	
 3VL9 .00-4PE30	4-pole			3VL9 100-4PA40	1	1 unit	113	3.272	
	4-pole with RCD module			3VL9 100-4PB40	1	1 unit	113	3.622	
	90° angle connecting adapters								
	For rear connection, 3-pole			3VL9 300-4PE30	1	1 unit	113	0.452	
	For rear connection, 4-pole			3VL9 300-4PE40	1	1 unit	113	0.548	
 3VL9 .00-4WF30	Front-accessible connections								
	3-pole			3VL9 100-4PC30	1	1 unit	113	2.291	
	3-pole with RCD module			3VL9 100-4PD30	1	1 unit	113	2.624	
	4-pole			3VL9 100-4PC40	1	1 unit	113	2.942	
	4-pole with RCD module			3VL9 100-4PD40	1	1 unit	113	3.502	
 3VL9 .00-4WA30	Withdrawable version assembly kits								
	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	--						
 3VL9 .00-4WF30	Withdrawable version								
	Same as plug-in base assembly kit, with additional side panels and racking mechanism								
	Rear terminals								
	3-pole			--					
	3-pole with RCD module			--					
 3VL9 .00-4PC30	4-pole			--					
	4-pole with RCD module			--					
	Front-accessible connections								
	3-pole			--					
	3-pole with RCD module			--					
 3VL9 .00-4PD30	4-pole			--					
	4-pole with RCD module			--					
	Blade contacts								
	As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin								
	1 set = 6 units			3-pole	3VL9 100-4PS30	1	1 unit	113	0.312
 3VL9 .00-4PS30	1 set = 8 units			4-pole	3VL9 100-4PS40	1	1 unit	113	0.396
	Trip pins and springs								
	As replacement for plug-in/withdrawable circuit breaker			3VL9 100-4PF00	1	1 unit	113	0.006	
	Auxiliary circuit plug connections for plug-in bases								
	Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal)			1)					
 3VL9 300-4PJ00	8 terminals			3VL9 300-4PJ00	1	1 unit	113	0.212	
	Position signaling switches								
	(connected/disconnected position)								
	For plug-in/withdrawable base,								
	1 changeover contact,								
 3VL9 000-4WL00	max. 2 signaling switches possible			3VL9 000-4WL00	1	1 unit	113	0.039	

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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DT	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Order No.							Order No.					
	3VL9 200-4PA30		1	1 unit	113	2.504		3VL9 300-4PA30		1	1 unit	113	2.606
	3VL9 200-4PB30		1	1 unit	113	2.991		3VL9 300-4PB30		1	1 unit	113	3.120
	3VL9 200-4PA40		1	1 unit	113	3.120		3VL9 300-4PA40		1	1 unit	113	3.409
	3VL9 200-4PB40		1	1 unit	113	3.614		3VL9 300-4PB40		1	1 unit	113	3.762
	3VL9 300-4PE30		1	1 unit	113	0.452		3VL9 300-4PE30		1	1 unit	113	0.452
	3VL9 300-4PE40		1	1 unit	113	0.548		3VL9 300-4PE40		1	1 unit	113	0.548
	3VL9 200-4PC30		1	1 unit	113	2.254		3VL9 300-4PC30		1	1 unit	113	2.400
	3VL9 200-4PD30		1	1 unit	113	2.368		3VL9 300-4PD30		1	1 unit	113	2.668
	3VL9 200-4PC40		1	1 unit	113	2.920		3VL9 300-4PC40		1	1 unit	113	3.010
	3VL9 200-4PD40		1	1 unit	113	3.595		3VL9 300-4PD40		1	1 unit	113	3.500
	3VL9 300-4WF30		1	1 unit	113	2.360		3VL9 300-4WF30		1	1 unit	113	2.360
	3VL9 300-4WG30		1	1 unit	113	3.176		3VL9 300-4WG30		1	1 unit	113	3.176
	3VL9 300-4WF40		1	1 unit	113	2.740		3VL9 300-4WF40		1	1 unit	113	2.740
	3VL9 300-4WG40		1	1 unit	113	3.106		3VL9 300-4WG40		1	1 unit	113	3.106
	3VL9 200-4WA30		1	1 unit	113	4.940		3VL9 300-4WA30		1	1 unit	113	5.192
	3VL9 200-4WB30		1	1 unit	113	6.301		3VL9 300-4WB30		1	1 unit	113	6.475
	3VL9 200-4WA40		1	1 unit	113	5.662		3VL9 300-4WA40		1	1 unit	113	5.932
	3VL9 200-4WB40		1	1 unit	113	6.919		3VL9 300-4WB40		1	1 unit	113	6.935
	3VL9 200-4WC30		1	1 unit	113	4.987		3VL9 300-4WC30		1	1 unit	113	5.100
	3VL9 200-4WD30		1	1 unit	113	6.045		3VL9 300-4WD30		1	1 unit	113	5.906
	3VL9 200-4WC40		1	1 unit	113	5.560		3VL9 300-4WC40		1	1 unit	113	5.560
	3VL9 200-4WD40		1	1 unit	113	6.732		3VL9 300-4WD40		1	1 unit	113	6.895
	3VL9 200-4PS30		1	1 unit	113	0.318		3VL9 300-4PS30		1	1 unit	113	0.424
	3VL9 200-4PS40		1	1 unit	113	0.397		3VL9 300-4PS40		1	1 unit	113	0.535
	3VL9 300-4PF00		1	1 unit	113	0.005		3VL9 300-4PF00		1	1 unit	113	0.005
	1) 3VL9 300-4PJ00		1	1 unit	113	0.212		1) 3VL9 300-4PJ00		1	1 unit	113	0.212
	3VL9 000-4WL00		1	1 unit	113	0.039		3VL9 000-4WL00		1	1 unit	113	0.039

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

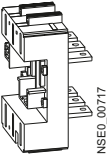
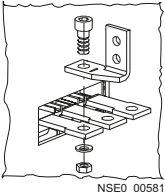
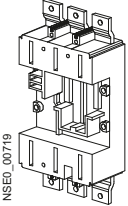
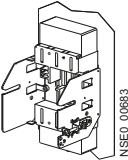
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	Order No.							Order No.					
	3VL9 500-4PA30		1	1 unit	113	9.186		--					
	--							--					
	3VL9 500-4PA40		1	1 unit	113	12.424		--					
	--							--					
	--							--					
	--							--					
	3VL9 500-4PC30		1	1 unit	113	8.025		--					
	--							--					
	3VL9 500-4PC40		1	1 unit	113	10.720		--					
	--							--					
	3VL9 500-4WF30		1	1 unit	113	5.200		--					
	--							--					
	3VL9 500-4WF40		1	1 unit	113	4.740		--					
	--							--					
	3VL9 500-4WA30		1	1 unit	113	15.360		3VL9 600-4WA30		1	1 unit	113	43.880
	--							--					
	3VL9 500-4WA40		1	1 unit	113	18.760		3VL9 600-4WA40		1	1 unit	113	43.800
	--							--					
	3VL9 500-4WC30		1	1 unit	113	14.180		3VL9 600-4WC30		1	1 unit	113	44.460
	--							--					
	3VL9 500-4WC40		1	1 unit	113	16.945		3VL9 600-4WC40		1	1 unit	113	43.213
	--							--					
	3VL9 500-4PS30		1	1 unit	113	1.365		3VL9 600-4PS30		1	1 unit	113	3.744
	3VL9 500-4PS40		1	1 unit	113	2.117		3VL9 600-4PS40		1	1 unit	113	4.965
	3VL9 500-4PF00		1	1 unit	113	0.015		3VL9 600-4PF00		1	1 unit	113	0.014
	2)							2)					
	3VL9 600-4PJ00		1	1 unit	113	0.250		3VL9 600-4PJ00		1	1 unit	113	0.250
	3VL9 000-4WL00		1	1 unit	113	0.039		3VL9 000-4WL00		1	1 unit	113	0.039

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

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Accessories and spare parts

Version	DT	For VL1250 (3VL7) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Plug-in versions/withdrawable versions							
 3VL9 .00-4PA30	3- or 4-pole Plug-in base assembly kits Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin Rear terminals 3-pole 3-pole with RCD module 4-pole 4-pole with RCD module 90° angle connecting adapters For rear connection, 3-pole For rear connection, 4-pole Front-accessible connections 3-pole 3-pole with RCD module 4-pole 4-pole with RCD module						
	 3VL9 .00-4PE30						
 3VL9 .00-4WF30	Withdrawable version assembly kits Upgrade of the plug-in base assembly kit to Withdrawable version 3-pole including side panels 3-pole with RCD and racking mecha- 4-pole nism. 4-pole with RCD						
	Withdrawable version Same as plug-in base assembly kit, with additional side panels and racking mechanism Rear terminals¹⁾ 3-pole 3-pole with RCD module 4-pole 4-pole with RCD module Front-accessible connections 3-pole 3-pole with RCD module 4-pole 4-pole with RCD module						
 3VL9 .00-4WA30	Blade contacts 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						
	Trip pins and springs As replacement for plug-in/withdrawable circuit breaker						
Auxiliary circuit plug connections for plug-in bases Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal) 8 terminals		2) 3VL9 800-4PJ00		1	1 unit	113	0.238
Position signaling switches (connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible		3VL9 000-4WL00		1	1 unit	113	0.039

¹⁾ With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

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

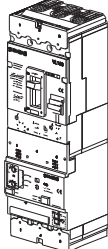
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-- -- -- --	
3VL9 800-4WA30 -- 3VL9 800-4WA40 -- 3VL9 800-4WC30 -- 3VL9 800-4WC40 --	
3VL9 800-4PS30 3VL9 800-4PS40	
3VL9 800-4PF00	
2) 3VL9 800-4PJ00 3VL9 000-4WL00	

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

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Accessories and spare parts

	Circuit breakers for system protection, only for TM, starters, disconnectors	Rated current I_n	Residual currents I_{Δ} adjustable	Delay time t_d adjustable	Rated operational voltage U_e	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		A	A	s	V AC							kg
RCD modules												
 NSEQ_00583	3-pole											
	VL160X (3VL1)		0.03	Instantaneous								
	Bottom mounting ¹⁾²⁾	160	0.10	0.06	127 ... 480		3VL9 112-5GA30		1	1 unit	113	1.500
	VL160 (3VL2)	160	0.30	0.10	127 ... 480		3VL9 216-5GC30		1	1 unit	113	1.438
			0.50	0.25	230 ... 690		3VL9 216-5GD30		1	1 unit	113	1.427
	VL250 (3VL3)	250	1.00	0.50	127 ... 480		3VL9 325-5GE30		1	1 unit	113	1.478
			3.00	1.00	230 ... 690		3VL9 325-5GF30		1	1 unit	113	1.487
	VL400 (3VL4)	400			127 ... 480		--					
					230 ... 690		--					
	4-pole											
Molded case circuit breakers VL160X to VL400 with RCD module mounted below the circuit breaker	VL160X (3VL1)		0.03	Instantaneous								
	Bottom mounting ¹⁾²⁾	160	0.10	0.06	127 ... 480		3VL9 112-5GA40		1	1 unit	113	1.849
	VL160 (3VL2)	160	0.30	0.10	127 ... 480		3VL9 216-5GC40		1	1 unit	113	1.743
			0.50	0.25	230 ... 690		3VL9 216-5GD40		1	1 unit	113	1.700
	VL250 (3VL3)	250	1.00	0.50	127 ... 480		3VL9 325-5GE40		1	1 unit	113	1.806
			3.00	1.00	230 ... 690		3VL9 325-5GF40		1	1 unit	113	1.810
	VL400 (3VL4)	400			127 ... 480		3VL9 440-5GG40		1	1 unit	113	3.327
					230 ... 690		3VL9 440-5GH40		1	1 unit	113	3.325
	Circuit breakers for system protection, only for TM, starters, disconnectors	Rated current I_n	Residual currents I_{Δ} adjustable	Delay time t_d adjustable	Rated operational voltage U_e	3-pole circuit breakers			4-pole circuit breakers			
						Order No. with "-Z" and additional order code	Add. price	Order No. with "-Z" and additional order code	Add. price			
						☐ ☐ ☐ Code for further versions -Z		☐ ☐ ☐ Code for further versions -Z				
	A	A	s		V AC							
Circuit breakers with RCD module												
	3 and 4-pole											
	VL160X (3VL1)		0.03	Instantaneous								
	(Bottom mounting)	160	0.10	0.06	127 ... 480	A 0 1 ¹⁾²⁾	✓	A 0 1 ¹⁾²⁾	✓			
			0.30	0.10								
			0.50	0.25								
	VL160 (3VL2)	160	1.00	0.50	127 ... 480	A 0 1	✓	A 0 1	✓			
			3.00	1.00	230 ... 690	A 0 2	✓	A 0 2	✓			
	VL250 (3VL3)	250			127 ... 480	A 0 1	✓	A 0 1	✓			
					230 ... 690	A 0 2	✓	A 0 2	✓			
	VL400 (3VL4)	400			127 ... 480	--		A 0 1	✓			
					230 ... 690	--		A 0 2	✓			

✓ 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.

²⁾ VL160X (3VL1) + RCD module cannot be combined with motorized operating mechanism, front operating mechanism, door-coupling rotary operating mechanism, locking device for toggle levers, screw terminal connections (3VL17.....6-....) and Bowden wire interlocking.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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Version	DT	For VL160X (3VL1) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Connection parts for fixed-mounted circuit breakers							
3- or 4-pole							
 NSE0_00702 3VL9..00-4EC40	Front connecting bars¹⁾						
	Phase barriers included.						
 NSE0_00722 3VL9..00-4ED40	Standard						
	For increased pole spacing						
 NSE0_00723 3VL9..00-4RA00, 3VL9..00-4RB00	Rear terminals						
	Short connection (1 unit)						
 NSE0_00724 3VL9..00-4RK00, 3VL9..00-4RL00	Long connection (1 unit)						
	Terminal kit (2 short + 1 long)						
 NSE0_00724 3VL9..00-4RM30	3-pole						
	Terminal kit (2 short + 2 long)						
 NSE0_00724 3VL9..00-4RN40	4-pole						
	Short flat connection (1 unit)						
 NSE0_00724 3VL9..00-4TD0	Long flat connection (1 unit)						
	Flat connector kit (2 short + 1 long)						
 NSE0_00724 3VL9..00-4TD0	3-pole						
	Flat connector kit (2 short + 2 long)						
 NSE0_00724 3VL9..00-4TD0	4-pole						
	Box terminals						
 NSE0_00700 3VL9..00-4TC.0	For connection for flexible flat copper busbar or cable, see Technical Information at www.siemens.com/lowvoltage/support .						
	1 set = 3 units						
 NSE0_00700 3VL9..00-4TD.0	1 set = 4 units						
	Circular conductor terminals						
 NSE0_00700 3VL9..00-4TD.0	Only for cables (Al or Cu)						
	Aluminum terminal (tinned)						
 NSE0_00700 3VL9..00-4TD.0	1 set = 3 units						
	1 set = 4 units						
 NSE0_00700 3VL9..00-4TD.0	Circular conductor terminal with terminal covers for cable (Al or Cu)						
	1 set = 3 units						
 NSE0_00700 3VL9..00-4TD.0	1 set = 4 units						
	Auxiliary conductor terminals						
 NSE0_00700 3VL9..00-4TD.0	For box terminals/circular conductor terminals						
	1 set = 10 units						
 NSE0_00701 3VL9..00-4TA.0	Terminals with screw connection - metric thread						
	With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/support .						
 NSE0_00730 3VL9..00-3CB.0	1 set = 3 units						
	1 set = 4 units						
 NSE0_00730 3VL9..00-3CB.0	Connection covers (terminal covers) for circuit breakers						
	Degree of protection IP30 for main connections						
 NSE0_00730 3VL9..00-3CB.0	1 set = 2 units						
	Extended						
 NSE0_00730 3VL9..00-3CB.0	Standard						
	Extended						
 NSE0_00730 3VL9..00-3CB.0	Standard						
	Standard						
 NSE0_00731 3VL9..00-8CE00	Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions						
	1 set = 2 units						

¹⁾ Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at www.siemens.com/lowvoltage/support.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Version	DT	For VL160 (3VL2) Order No.	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg
Connection parts for fixed-mounted circuit breakers							
3- or 4-pole							
 NSE0_00702 3VL9.00-4EC40	Front connecting bars¹⁾						
	Phase barriers included.						
 NSE0_00722 3VL9.00-4ED40	Standard						
	1 set = 3 units 3-pole 1 set = 4 units 4-pole						
	For increased pole spacing						
	1 set = 3 units 3-pole 1 set = 4 units 4-pole						
 NSE0_00723 3VL9.00-4RA00, 3VL9.00-4RB00	Rear terminals						
	Short connection (1 unit) Long connection (1 unit)						
 NSE0_00724 3VL9.00-4TA.0	Terminal kit (2 short + 1 long) 3-pole Terminal kit (2 short + 2 long) 4-pole						
	Short flat connection (1 unit) Long flat connection (1 unit)						
	Flat connector kit (2 short + 1 long) 3-pole Flat connector kit (2 short + 2 long) 4-pole						
 NSE0_00700 3VL9.00-4TC.0	Box terminals						
	Connection for flexible flat copper busbar or cable, see Technical Information at www.siemens.com/lowvoltage/support .						
 3VL9.00-4TD.0	Circular conductor terminals						
	Only for cables (Al or Cu) Aluminum terminal (tinned)						
 NSE0_01542 3VL9.00-4TF.0	Circular conductor terminal with terminal covers for cable (Al or Cu)						
	1 set = 3 units 1 set = 4 units						
	Multiple feed-in terminals						
	3 units 4 units						
	Multiple feed-in terminal with terminal covers						
	3 units (2 × 70 ... 300) 4 units (2 × 70 ... 300)						
	Auxiliary conductor terminals						
	For box terminals/circular conductor terminals/multiple feed-in terminals 1 set = 10 units						
 NSE0_00701 3VL9.00-4TA.0	Terminals with screw connection - metric thread						
	With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/support .						
 NSE0_00730 3VL9.00-3CB.0	Connection covers (terminal covers) for circuit breakers						
	Degree of protection IP30 for main connections 1 set = 2 units						
	Extended 3-pole Standard 3-pole Extended 4-pole Standard 4-pole						
 NSE0_00731 3VL9.00-3CB.0	Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions						
	1 set = 2 units						

¹⁾ Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at www.siemens.com/lowvoltage/support.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Order No.							Order No.					
	3VL9 300-4EC30		1	1 unit	113	0.269		3VL9 400-4EC30		1	1 unit	113	0.918
	3VL9 300-4EC40		1	1 unit	113	0.353		3VL9 400-4EC40		1	1 unit	113	1.145
	3VL9 300-4ED30		1	1 unit	113	0.267		3VL9 400-4ED30		1	1 unit	113	0.896
	3VL9 300-4ED40		1	1 unit	113	0.491		3VL9 400-4ED40		1	1 unit	113	1.476
	3VL9 300-4RA00		1	1 unit	113	0.161		3VL9 400-4RA00		1	1 unit	113	0.268
	3VL9 300-4RB00		1	1 unit	113	0.265		3VL9 400-4RB00		1	1 unit	113	0.433
	3VL9 300-4RC30		1	1 unit	113	0.562		3VL9 400-4RC30		1	1 unit	113	0.930
	3VL9 300-4RF40		1	1 unit	113	0.850		3VL9 400-4RF40		1	1 unit	113	1.337
	3VL9 300-4RK00		1	1 unit	113	0.126		3VL9 400-4RK00		1	1 unit	113	0.380
	3VL9 300-4RL00		1	1 unit	113	0.228		3VL9 400-4RL00		1	1 unit	113	0.543
	3VL9 300-4RM30		1	1 unit	113	0.447		3VL9 400-4RM30		1	1 unit	113	1.305
	3VL9 300-4RN40		1	1 unit	113	0.660		3VL9 400-4RN40		1	1 unit	113	1.783
	3VL9 300-4TC30		1	1 unit	113	0.230		3VL9 400-4TC30		1	1 unit	113	0.458
	3VL9 300-4TC40		1	1 unit	113	0.278		3VL9 400-4TC40		1	1 unit	113	0.617
	3VL9 300-4TD30		1	1 unit	113	0.174		3VL9 400-4TD30		1	1 unit	113	0.293
	3VL9 300-4TD40		1	1 unit	113	0.230		3VL9 400-4TD40		1	1 unit	113	0.370
	3VL9 324-4TD30		1	1 unit	113	0.487		--					
	3VL9 324-4TD40		1	1 unit	113	0.676		--					
	--							3VL9 400-4TF30		1	1 unit	113	0.452
	--							3VL9 400-4TF40		1	1 unit	113	0.607
	--							3VL9 460-4TF30		1	1 unit	113	0.892
	--							3VL9 460-4TF40		1	1 unit	113	1.141
	3VL9 300-3TN00		1	1 unit	113	0.133		3VL9 400-3TN00		1	1 unit	113	0.140
	3VL9 300-4TA30		1	1 unit	113	0.124		3VL9 400-4TA30		1	1 unit	113	0.127
	3VL9 300-4TA40		1	1 unit	113	0.145		3VL9 400-4TA40		1	1 unit	113	0.161
	3VL9 300-8CA30		1	1 unit	113	0.308		3VL9 400-8CA30		1	1 unit	113	0.625
	3VL9 300-8CB30		1	1 unit	113	0.072		3VL9 400-8CB30		1	1 unit	113	0.141
	3VL9 300-8CA40		1	1 unit	113	0.364		3VL9 400-8CA40		1	1 unit	113	0.705
	3VL9 300-8CB40		1	1 unit	113	0.092		3VL9 400-8CB40		1	1 unit	113	0.176
	3VL9 300-8CE00		1	1 unit	113	0.032		3VL9 600-8CE00		1	1 unit	113	0.058

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Version	DT	For VL630 (3VL5) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Connection parts for fixed-mounted circuit breakers							
3- or 4-pole							
 NSE0_00702 3VL9..00-4EC40	Front connecting bars						
	Phase barriers included.						
 NSE0_00722 3VL9..00-4ED40	Standard						
	1 set = 3 units	3-pole	3VL9 500-4EC30	1	1 unit	113	1.160
	1 set = 4 units	4-pole	3VL9 500-4EC40	1	1 unit	113	1.522
 NSE0_00722 3VL9..00-4ED40	For increased pole spacing						
	1 set = 3 units	3-pole	3VL9 500-4ED30	1	1 unit	113	1.172
	1 set = 4 units	4-pole	3VL9 500-4ED40	1	1 unit	113	1.545
 NSE0_00723 3VL9..00-4RA00, 3VL9..00-4RB00	Rear terminals						
	Short connection (1 unit)		--				
	Long connection (1 unit)		--				
 NSE0_00724 3VL9..00-4RK00, 3VL9..00-4RL00	Terminal kit (2 short + 1 long) 3-pole		--				
	Terminal kit (2 short + 2 long) 4-pole		--				
 NSE0_00725 3VL9..00-4RG00	Short flat connection (1 unit)		--				
	Long flat connection (1 unit)		--				
 NSE0_00724 3VL9..00-4RK00, 3VL9..00-4RL00	Flat connector kit (2 short + 1 long) 3-pole		--				
	Flat connector kit (2 short + 2 long) 4-pole		--				
 NSE0_00724 3VL9..00-4RK00, 3VL9..00-4RL00	Flat connecting bar (1 unit)		3VL9 500-4RG00	1	1 unit	113	0.459
	Flat connecting bar						
 NSE0_00724 3VL9..00-4RK00, 3VL9..00-4RL00	Set = 3 units, 3-pole		3VL9 500-4RH30	1	1 unit	113	1.174
	Flat connecting bar						
 NSE0_00724 3VL9..00-4RK00, 3VL9..00-4RL00	Set = 4 units, 4-pole		3VL9 500-4RH40	1	1 unit	113	1.519
 NSE0_01542 3VL9..00-4TF.0	Multiple feed-in terminals						
	Only for cables (Al or Cu)						
 NSE0_01544 3VL9..00-4TG.0	Aluminum terminal (tinned)						
	1 set = 3 units		3VL9 500-4TG30	1	1 unit	113	0.587
	1 set = 4 units		3VL9 500-4TG40	1	1 unit	113	0.704
Auxiliary conductor terminals			3VL9 400-3TN00	1	1 unit	113	0.140
For multiple feed-in terminals							
1 set = 10 units							
 NSE0_01530 3VL9..00-4TT.0	Terminal plates¹⁾						
	Connection for flexible flat copper busbar with auxiliary conductor connection 0.5 – 4 mm ² (extended terminal covers or phase barriers required)						
	1 set = 3 units		3VL9 500-4TT30	1	1 unit	113	1.432
	1 set = 4 units		3VL9 500-4TT40	1	1 unit	113	1.893
 NSE0_00701 3VL9..00-4TA.0	Terminals with screw connection - metric thread						
	With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/support .						
	1 set = 3 units		3VL9 500-4TA30	1	1 unit	113	0.129
	1 set = 4 units		3VL9 500-4TA40	1	1 unit	113	0.163
 NSE0_00730 3VL9..00-3CB.0	Connection covers (terminal covers) for circuit breakers						
	Degree of protection IP30 for main connections						
	1 set = 2 units						
	Extended	3-pole	3VL9 600-8CA30	1	1 unit	113	0.930
	Standard	3-pole	3VL9 600-8CB30	1	1 unit	113	0.248
	Extended	4-pole	3VL9 600-8CA40	1	1 unit	113	1.062
	Standard	4-pole	3VL9 600-8CB40	1	1 unit	113	0.273
 NSE0_00731 3VL9..00-8CE00	Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions²⁾						
	1 set = 2 units		3VL9 600-8CE00	1	1 unit	113	0.058

¹⁾ Front connecting bars included in scope of supply; not for 690 V AC/600 V DC.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Order No.							Order No.					
	3VL9 600-4EC30		1	1 unit	113	1.725		3VL9 800-4EC30		1	1 unit	113	3.457
	3VL9 600-4EC40		1	1 unit	113	2.301		3VL9 800-4EC40		1	1 unit	113	4.634
	3VL9 600-4ED30		1	1 unit	113	1.733		--					
	3VL9 600-4ED40		1	1 unit	113	2.287		--					
	--							--					
	--							--					
	--							--					
	--							--					
	--							--					
	--							--					
	3VL9 600-4RG00		1	1 unit	113	1.629		3VL9 700-4RG00		1	1 unit	113	1.638
	3VL9 600-4RH30		1	1 unit	113	4.770		3VL9 700-4RH30		1	1 unit	113	4.960
	3VL9 600-4RH40		1	1 unit	113	6.510		3VL9 700-4RH40		1	1 unit	113	6.523
	3VL9 600-4TG30		1	1 unit	113	1.009		3VL9 700-4TG30		1	1 unit	113	2.207
	3VL9 600-4TG40		1	1 unit	113	1.286		3VL9 700-4TG40		1	1 unit	113	2.950
	3VL9 400-3TN00		1	1 unit	113	0.140		3VL9 400-3TN00		1	1 unit	113	0.140
	--							--					
	--							--					
	3VL9 600-4TA30		1	1 unit	113	0.236		3VL9 800-4TA30		1	1 unit	113	0.262
	3VL9 600-4TA40		1	1 unit	113	0.330		3VL9 800-4TA40		1	1 unit	113	0.340
	3VL9 600-8CA30		1	1 unit	113	0.930		3VL9 800-8CA30		1	1 unit	113	1.240
	3VL9 600-8CB30		1	1 unit	113	0.248		3VL9 800-8CB30		1	1 unit	113	0.363
	3VL9 600-8CA40		1	1 unit	113	1.062		3VL9 800-8CA40		1	1 unit	113	1.500
	3VL9 600-8CB40		1	1 unit	113	0.273		3VL9 800-8CB40		1	1 unit	113	0.528
	3VL9 600-8CE00		1	1 unit	113	0.058		3VL9 800-8CE00		1	1 unit	113	0.146

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

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Accessories and spare parts

Version	DT	For VL1600 (3VL8) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Connection parts for fixed-mounted circuit breakers							
3- or 4-pole							
Front connecting bars							
Phase barriers included. Standard ¹⁾							
 NSE0_00702 3VL9 .00-4EC40	1 set = 3 units	3-pole	3VL9 800-4EC30	1	1 unit	113	3.457
	1 set = 4 units	4-pole	3VL9 800-4EC40	1	1 unit	113	4.634
For increased pole spacing							
 NSE0_00722 3VL9 .00-4ED40	1 set = 3 units	3-pole	--				
	1 set = 4 units	4-pole	--				
Rear terminals							
Short connection (1 unit)							
 NSE0_00723 3VL9 .00-4RA00, 3VL9 .00-4RB00	Long connection (1 unit)		--				
Terminal kit (2 short + 1 long)							
	3-pole		--				
Terminal kit (2 short + 2 long)							
	4-pole		--				
Short flat connection (1 unit)							
 NSE0_00724 3VL9 .00-4RK00, 3VL9 .00-4RL00	Long flat connection (1 unit)		--				
Flat connector kit (2 short + 1 long)							
	3-pole		--				
Flat connector kit (2 short + 2 long)							
 NSE0_00725 3VL9 .00-4RG00	4-pole		--				
Flat connecting bar (1 unit)							
			3VL9 800-4RG00	1	1 unit	113	1.597
Flat connecting bar Set = 3 units, 3-pole							
			3VL9 800-4RH30	1	1 unit	113	4.965
Flat connecting bar Set = 4 units, 4-pole							
			3VL9 800-4RH40	1	1 unit	113	6.105
Box terminals							
For connection for flexible flat copper busbar or cable, see Technical Information at www.siemens.com/lowvoltage/support .							
 NSE0_00700 3VL9 .00-4TC.0	1 set = 3 units		--				
	1 set = 4 units		--				
Multiple feed-in terminals							
Only for cables (Al or Cu) Aluminum terminal (tinned)							
 NSE0_01544 3VL9 .00-4TG.0	1 set = 3 units		--				
	1 set = 4 units		--				
Auxiliary conductor terminals							
For box terminals/aluminum terminals							
Terminals with screw connection - metric thread							
With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/support .							
 NSE0_00701 3VL9 .00-4TA.0	1 set = 3 units		3VL9 800-4TA30	1	1 unit	113	0.262
	1 set = 4 units		3VL9 800-4TA40	1	1 unit	113	0.340
Connection covers (terminal covers) for circuit breakers							
Degree of protection IP30 for main connections							
 NSE0_00730 3VL9 .00-3CB.0	1 set = 2 units						
Extended							
	3-pole		3VL9 800-8CA30	1	1 unit	113	1.240
Standard							
	3-pole		3VL9 800-8CB30	1	1 unit	113	0.363
Extended							
	4-pole		3VL9 800-8CA40	1	1 unit	113	1.500
Standard							
	4-pole		3VL9 800-8CB40	1	1 unit	113	0.528
Phase barriers for fixed-mounted circuit breakers							
 NSE0_00731 3VL9 .00-8CE00	1 set = 2 units		3VL9 800-8CE00	1	1 unit	113	0.146

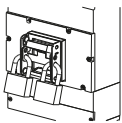
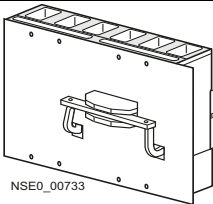
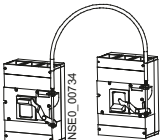
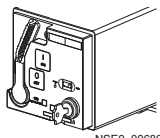
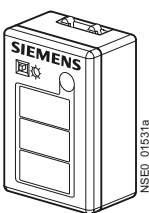
¹⁾ In scope of supply of circuit breaker.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	DT	For VL160X (3VL1)	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
kg								
Interlocks								
 NSE0_00732 3VL9 .00-3HL00		3- or 4-pole Locking devices for toggle levers 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)		3VL9 300-3HL00		1	1 unit	113 0.076
 NSE0_00733 3VL9 .00-8L.00		Rear interlocking modules 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)		3VL9 300-8LC00		1	1 unit	113 0.331
		Fixed-mounted circuit breakers		3VL9 300-8LD00		1	1 unit	113 0.410
 NSE0_00734 3VL9 .00-8LA00		Interlocking modules for Bowden wire interlocking¹⁾ For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker		Combination with next size up possible (see Order No.) 3VL9 300-8LA00		1	1 unit	113 0.189
		Bowden wires for Bowden wire interlocking ¹⁾ Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m		3VL9 000-8LH10 3VL9 000-8LH20 3VL9 000-8LH30		1 1 1	1 unit 1 unit 1 unit	113 0.303 113 0.444 113 0.646
 NSE0_00680 3VL9 ...-8HA00		Safety lock assembly kits Key can be removed with the circuit breaker in the "OFF" position <u>For front-operated rotary operating mechanisms</u> Lock types Ronis <u>For motorized operating mechanism with stored energy mechanism</u> Lock types Ronis Filli Giussani		3VL9 715-8HA00 -- 3VL9 321-8HA00		1 1	1 unit 1 unit	113 0.278 113 0,040
		Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws		3VL9 300-8SA40		1	1 unit	113 0,057
		Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units Thermal-magnetic		-- 3VL9 300-8BM00		1	1 unit	113 0,025
 NSE0_01531a 3VL9 000-8AP01		Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs. (two 9 V blocks are required in addition)		--				

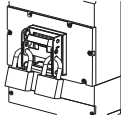
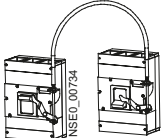
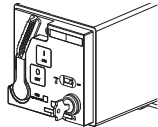
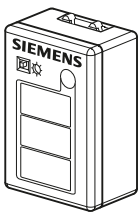
¹⁾ Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Version	DT	For VL160 (3VL2)	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Interlocks								
 NSE0_00732 3VL9 .00-3HL00	3- or 4-pole Locking devices for toggle levers 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)		3VL9 300-3HL00	1	1 unit	113	0,076	
	Rear interlocking modules 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		3VL9 300-8LC00 3VL9 300-8LD00	1 1	1 unit 1 unit	113 113	0.331 0.410	
 NSE0_00734 3VL9 .00-8LA00	Interlocking modules for Bowden wire interlocking¹⁾ For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker		Combinations with next size up/down possible (see Order No.)					
	Bowden wires for Bowden wire interlocking ¹⁾ Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m		3VL9 300-8LA00	1	1 unit	113	0.189	
 NSE0_00680 3VL9 ...-8HA00	Safety lock assembly kits Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms Lock types Ronis		3VL9 000-8LH10 3VL9 000-8LH20 3VL9 000-8LH30	1 1 1	1 unit 1 unit 1 unit	113 113 113	0.303 0.444 0.646	
	Safety lock assembly kits Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms Lock types Ronis Filli Giussani		3VL9 715-8HA00 -- 3VL9 321-8HA00	1 1	1 unit 1 unit	113 113	0.278 0,040	
 NSE0_01531a 3VL9 000-8AP01	Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws		3VL9 300-8SA40	1	1 unit	113	0,057	
	Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units Thermal-magnetic		3VL9 700-8BL00 3VL9 300-8BM00	1 1	1 unit 1 unit	113 113	0,010 0,025	
Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs. (two 9 V blocks are required in addition)		3VL9 000-8AP01	1	1 unit	113	0.212		

¹⁾ Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

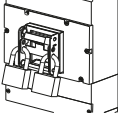
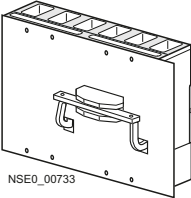
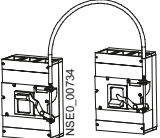
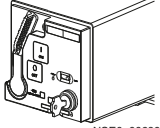
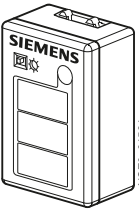
DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	3VL9 300-3HL00		1	1 unit	113	0,076		3VL9 400-3HL00		1	1 unit	113	0.148
	3VL9 300-8LC00		1	1 unit	113	0.331		3VL9 400-8LC00		1	1 unit	113	1.170
	3VL9 300-8LD00		1	1 unit	113	0.410		3VL9 400-8LD00		1	1 unit	113	1.280
	3VL9 300-8LA00		1	1 unit	113	0.189		3VL9 400-8LA00		1	1 unit	113	0.204
	3VL9 000-8LH10		1	1 unit	113	0.303		--					
	3VL9 000-8LH20		1	1 unit	113	0.444		3VL9 000-8LH20		1	1 unit	113	0.444
	3VL9 000-8LH30		1	1 unit	113	0.646		3VL9 000-8LH30		1	1 unit	113	0.646
	3VL9 715-8HA00		1	1 unit	113	0.278		3VL9 715-8HA00		1	1 unit	113	0.278
	--							3VL9 715-8HA00		1	1 unit	113	0.278
	3VL9 321-8HA00		1	1 unit	113	0,040		--					
	3VL9 300-8SA40		1	1 unit	113	0,057		3VL9 500-8SA40		1	1 unit	113	0.109
	3VL9 700-8BL00		1	1 unit	113	0,010		3VL9 700-8BL00		1	1 unit	113	0,010
	3VL9 300-8BM00		1	1 unit	113	0,025		3VL9 400-8BM00		1	1 unit	113	0,028
	3VL9 000-8AP01		1	1 unit	113	0.212		3VL9 000-8AP01		1	1 unit	113	0.212

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Version	DT	For VL630 (3VL5) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Interlocks							
3- or 4-pole							
 NSE0_00732 3VL9.00-3HL00	Locking devices for toggle levers 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)		3VL9 600-3HL00	1	1 unit	113	0.163
	Rear interlocking modules 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		3VL9 600-8LC00 3VL9 600-8LD00	1 1	1 unit 1 unit	113 113	4.356 5.413
 NSE0_00733 3VL9.00-8L.00	Interlocking modules for Bowden wire interlocking¹⁾ For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker		Combinations with next size up/down possible (see Order No.) 3VL9 600-8LA00	1	1 unit	113	0.256
	Bowden wires for Bowden wire interlocking ¹⁾ Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m		-- 3VL9 000-8LH20 3VL9 000-8LH30	1 1	1 unit 1 unit	113 113	0.444 0.646
 NSE0_00734 3VL9.00-8LA00	Safety lock assembly kits Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms Lock types Ronis		3VL9 715-8HA00	1	1 unit	113	0.278
	For motorized operating mechanism with stored energy mechanism Lock types Ronis Filli Giussani		3VL9 715-8HA00 --	1	1 unit	113	0.278
 NSE0_00680 3VL9 ...-8HA00	Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws		3VL9 500-8SA40	1	1 unit	113	0.109
	Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units Thermal-magnetic		3VL9 700-8BL00 3VL9 600-8BM00	1 1	1 unit 1 unit	113 113	0,010 0,035
 NSE0_01631a 3VL9 000-8AP01	Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs. (two 9 V blocks are required in addition)		3VL9 000-8AP01	1	1 unit	113	0.212

¹⁾ Two interlocking modules and one Bowden wire are required.
Cannot be used in conjunction with motorized operating mechanism and withdrawable version.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

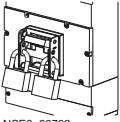
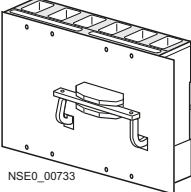
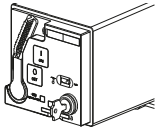
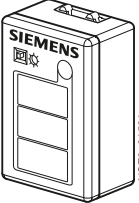
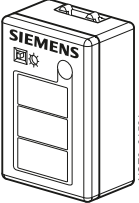
DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	3VL9 600-3HL00		1	1 unit	113	0.163		3VL9 800-3HL00		1	1 unit	113	0.244
	3VL9 600-8LC00		1	1 unit	113	4.356		3VL9 800-8LC00		1	1 unit	113	2.738
	3VL9 600-8LD00		1	1 unit	113	5.413		3VL9 800-8LD00		1	1 unit	113	3.402
	3VL9 600-8LA00		1	1 unit	113	0.256		3VL9 800-8LA00		1	1 unit	113	0.305
	--							--					
	3VL9 000-8LH20		1	1 unit	113	0.444		--					
	3VL9 000-8LH30		1	1 unit	113	0.646		3VL9 000-8LH30		1	1 unit	113	0.646
	3VL9 715-8HA00		1	1 unit	113	0.278		3VL9 715-8HA00		1	1 unit	113	0.278
	3VL9 715-8HA00		1	1 unit	113	0.278		3VL9 715-8HA00		1	1 unit	113	0.278
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	3VL9 600-8SA40		1	1 unit	113	0,099		3VL9 800-8SA40		1	1 unit	113	0.116
	3VL9 700-8BL00		1	1 unit	113	0,010		3VL9 700-8BL00		1	1 unit	113	0,010
	--							--					
	3VL9 000-8AP01		1	1 unit	113	0.212		3VL9 000-8AP01		1	1 unit	113	0.212

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Version	DT	For VL1600 (3VL8) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Interlocks							
3- or 4-pole							
 NSE0_00732 3VL9 .00-3HL00	Locking devices for toggle levers 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)		3VL9 800-3HL00	1	1 unit	113	0.244
	Rear interlocking modules 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 ¹⁾ Plug-in/withdrawable circuit breakers		3VL9 800-8LC00 3VL9 800-8LD00	1 1	1 unit 1 unit	113 113	2.738 3.402
 NSE0_00733 3VL9 .00-8L.00	Interlocking modules for Bowden wire interlocking²⁾ For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker		3VL9 800-8LA00	1	1 unit	113	0.305
	Bowden wires for Bowden wire interlocking ²⁾ Wire length 0.5 m Wire length 1.0 m Wire length 1.5 m		-- -- 3VL9 000-8LH30	1	1 unit	113	0.646
 NSE0_00680 3VL9 ...-8HA00	Safety lock assembly kits Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms Lock types Ronis		3VL9 715-8HA00	1	1 unit	113	0.278
	For motorized operating mechanisms Lock types Ronis Filli Giussani		3VL9 715-8HA00 --	1	1 unit	113	0.278
 3VL9 000-8AP01	Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface Set with 4 screws		3VL9 800-8SA40	1	1 unit	113	0.116
	Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units Thermal-magnetic		3VL9 700-8BL00 --	1	1 unit	113	0,010
 3VL9 000-8AP01	Battery power supply for activating/parameterizing the LCD ETUs, with test function for all IEC and UL ETUs. (two 9 V blocks are required in addition)		3VL9 000-8AP01	1	1 unit	113	0.212

¹⁾ Mounting plate not included in scope of supply.

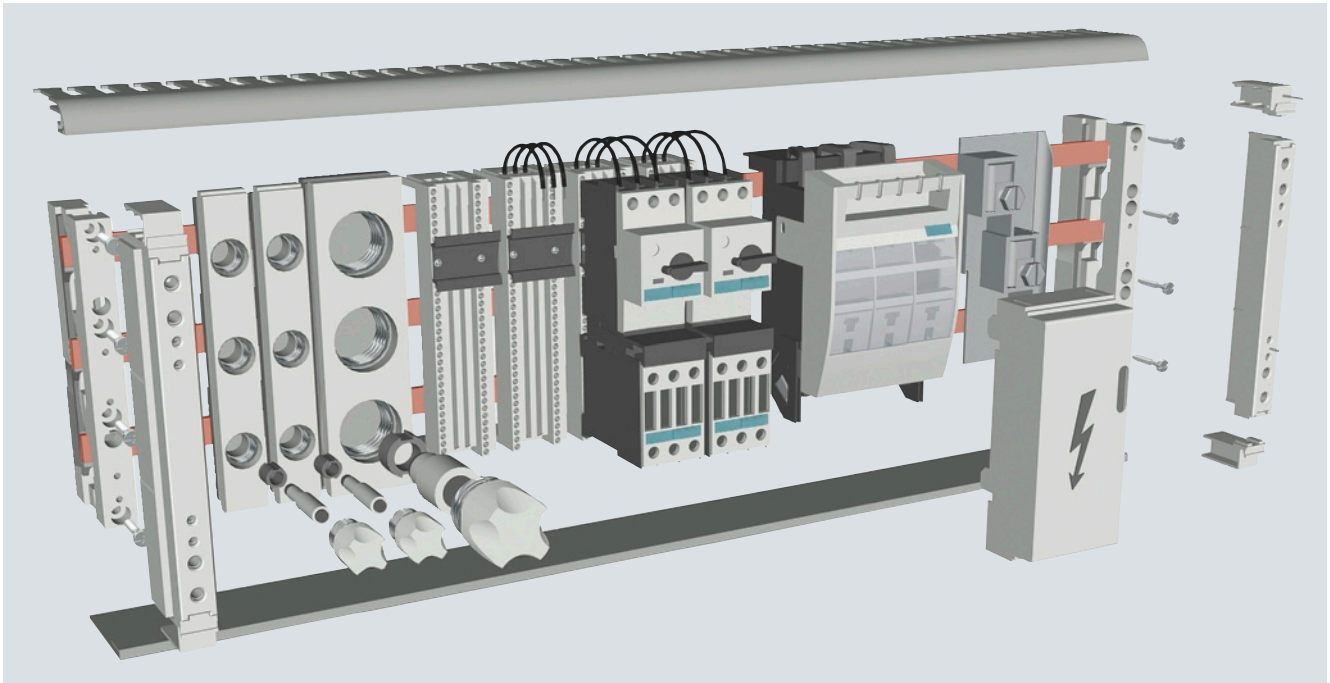
²⁾ Two interlocking modules and one Bowden wire are required.
Cannot be used in conjunction with motorized operating mechanism and withdrawable version.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2



Busbar adapter systems with 40 mm or 60 mm busbar center-to-center spacing with components for busbar runs, adapters and switching device holders for individual equipment possibilities, devices with an integrated adapter, as well as accessories and flat copper profiles. Observe the short-circuit strength of the busbar system. Short-circuit strength greater than 50 kA on request.

See also "Busbar Systems" chapter.

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							kg
40 mm busbar adapter systems							
According to DIN 43870 Part 2 for copper busbars with sharp (DIN 1759) and with rounded (DIN 46433) edges, width 12 mm and 15 mm, thickness 5 mm and 10 mm.							
Up to 160 A							
Busbar adapters , length 175 mm							
With plug connection tags at top, 3-pole							
With terminal cover (degree of protection IP10) ¹⁾							
For one VL160X (3VL1) circuit breaker ²⁾							
108 mm wide							
		8US10 11-4SL01		1	1 unit	143	0.565

¹⁾ For degree of protection IP30, the terminal covers from [page 2/79 to 2/84](#) should be ordered.

²⁾ Usable only for 3VL molded case circuit breakers with line-side box terminals.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							kg

60 mm busbar adapter systems

For copper busbars with sharp (DIN 1759) and with rounded (DIN 46433) edges, width 12 mm to 30 mm, thickness 5 mm and 10 mm, also for T and double-T special profiles



8US12 11-4SL01

Up to 160 A

Busbar adapters, length 175 mm
With plug connection tags at top, 3-pole
With terminal cover (degree of protection IP10)¹⁾
For one VL160X/VL160 (3VL1, 3VL2) 108 mm wide circuit breaker²⁾

8US12 11-4SL01

1 1 unit 143 0.579

Up to 250 A

Busbar adapters, length 175 mm
With plug connection tags at top, 3-pole
With terminal cover (degree of protection IP10)¹⁾
For one VL250 (3VL3) circuit breaker 108 mm wide

8US12 11-4SL00

1 1 unit 143 0.641

Up to 400 A

Busbar adapters, length 320 mm
With threaded inserts M4, M6 and M8
For various types of switchgears, 3-pole
Without connecting cables,
with M10 terminal screws at top and bottom¹⁾

Adapter 185 mm wide

8US12 10-4AF00

1 1 unit 143 2.688

Mounting plates for 8US12 10-4AF00

For VL400 (3VL4) circuit breakers
(also for VL160X+RCD, VL160, VL250 circuit breakers (3VL1 + RCD, 3VL2, 3VL3))

8US19 27-4AF01

1 1 unit 143 0.526

For VL630 (3VL5) circuit breakers
($I_{n\max} = 580\text{ V}$)

8US12 13-4AF00

1 1 unit 143 3.239



8US12 10-4AF00

The connecting cable between adapter and switching device should be manufactured in accordance with the rated current as a round cable, e. g. H07V-R, with a cable lug or as a flat conductor for bolt-type connection M10 (adapter).

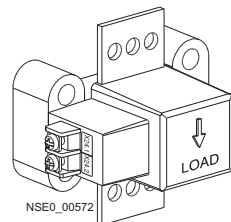
¹⁾ For degree of protection IP30, the terminal covers from page 2/79 to 2/84 should be ordered.

²⁾ Usable only for 3VL molded case circuit breakers with line-side box terminals.

Type	Rated current I_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A							kg

Further accessories

Current transformers (-T6) for N conductor/grounded neutral point of the transformer for ground-fault protection in 4-wire three-phase systems¹⁾



NSE0_00572

VL160/3VL2	63, 80		3VL9 280-8TC00	1	1 unit	113	0.453
	100		3VL9 210-8TC00	1	1 unit	113	0.460
	160		3VL9 216-8TC00	1	1 unit	113	0.475
VL250/3VL3	200		3VL9 320-8TC00	1	1 unit	113	0.452
	250		3VL9 325-8TC00	1	1 unit	113	0.455
VL400/3VL4	315		3VL9 440-8TC00	1	1 unit	113	0.648
	400		3VL9 440-8TC00	1	1 unit	113	0.648
VL630/3VL5	630		3VL9 563-8TC00	1	1 unit	113	0.771
VL800/3VL6	800		3VL9 680-8TC00	1	1 unit	113	0.800
VL1250/3VL7	1000		3VL9 712-8TC00	1	1 unit	113	2,042
	1250		3VL9 712-8TC00	1	1 unit	113	2,042
VL1600/3VL8	1600		3VL9 816-8TC00	1	1 unit	113	2,061

¹⁾ Please note the rated current of the circuit breaker.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Accessories for communication							
3- or 4-pole							
Data transmission through COM20, COM21							
VL160 (3VL2) to VL1600 (3VL8)							
COM20 Release 2 (PROFIBUS module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs							
Module for connecting the 3VL molded case circuit breaker to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connection cable to ETU included in delivery of the ETU, length 1.5 m.		3VL9 000-8AU00		1	1 unit	113	0.300
COM21 Release 2 (MODBUS RTU module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs							
Module for connecting the 3VL molded case circuit breaker to the MODBUS RTU, including switching function and Zone Selective Interlocking functionality, connection cable to ETU included in delivery of the ETU, length 1.5 m.		3VL9 000-8AV00		1	1 unit	113	0.300
Connection cable ETU – COM20/COM21							
For VL160 ... VL250, length 3 m		3VL9 000-8AQ81		1	1 unit	113	0.150
For VL630 ... VL1600, length 3 m		3VL9 000-8AQ71		1	1 unit	113	0.148
For VL400, length 3 m		3VL9 000-8AQ61		1	1 unit	113	0.149
Addressing plugs							
For assigning the PROFIBUS module addresses without using a PC/PG							
On COM20/COM21 through the system interface		3UF7 910-0AA00-0		1	1 unit	42J	0,015
powerconfig parameterization software							
Parameterization, operation, monitoring and diagnostics of 3VL molded case circuit breakers using powerconfig software see chapter 13 Software, "Configuring, Visualizing and Controlling with SENTRON" . powerconfig is available free of charge at http://support.automation.siemens.com/WW/view/en/63452759							

Communication:

- For molded case circuit breakers with communication function [see pages 2/14 to 2/30, 2/42 to 2/52](#).
- For more information [see also chapters "Measuring Devices and Power Monitoring" and "Software"](#).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

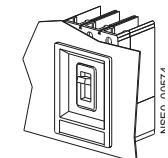
Accessories and spare parts

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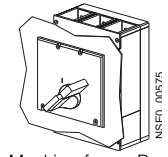
Further accessories

3- or 4-pole

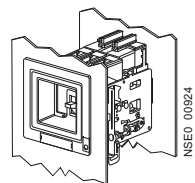
Masking frames (cover frames) For door cutouts



Masking frame A



Masking frame B



Masking frame C

A Fixed-mounted or plug-in circuit breaker

IP40

3VL9 300-8BC00

1 1 unit 113 0,056

B¹⁾ Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (with or without SEO/MO stored energy mechanisms)

IP40

3VL9 300-8BG00

1 1 unit 113 0.131

C Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)

IP20

--

D Fixed-mounted circuit breaker or plug-in circuit breaker
RCD circuit breaker masking frame
RCD masking frame

IP40

3VL9 300-8BD00

1 1 unit 113 0,046

3VL9 300-8BD00

1 1 unit 113 0,046

E¹⁾ Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon

IP40

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Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon

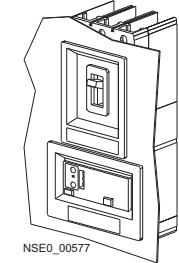
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Version	DT	For VL400 (3VL4) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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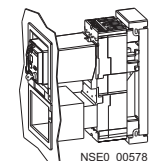
Further accessories

3- or 4-pole

Masking frames (cover frames) For door cutouts



Masking frame D



Masking frame E

A Fixed-mounted or plug-in circuit breaker

IP40

3VL9 400-8BC00

1 1 unit 113 0,050

B¹⁾ Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (only with SEO stored energy mechanisms)

IP40

3VL9 400-8BG00

1 1 unit 113 0.196

C Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)

IP20

3VL9 400-8BH00

1 1 unit 113 0.403

D Fixed-mounted circuit breaker or plug-in circuit breaker
RCD circuit breaker masking frame
RCD masking frame

IP40

3VL9 400-8BC00

1 1 unit 113 0,050

3VL9 400-8BD00

1 1 unit 113 0,044

E¹⁾ Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon

IP40

3VL9 400-8BH00

1 1 unit 113 0.403

Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon

3VL9 400-8BJ00

1 1 unit 113 0.516

¹⁾ For withdrawable version IP20.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

2

DT	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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	3VL9 300-8BC00		1	1 unit	113	0,056		3VL9 300-8BC00		1	1 unit	113	0,056
	3VL9 300-8BG00		1	1 unit	113	0.131		3VL9 300-8BG00		1	1 unit	113	0.131
	3VL9 300-8BH00		1	1 unit	113	0.270		3VL9 300-8BH00		1	1 unit	113	0.270
	3VL9 300-8BD00		1	1 unit	113	0,046		3VL9 300-8BD00		1	1 unit	113	0,046
	3VL9 300-8BD00		1	1 unit	113	0,046		3VL9 300-8BD00		1	1 unit	113	0,046
	3VL9 300-8BH00		1	1 unit	113	0.270		3VL9 300-8BH00		1	1 unit	113	0.270
	3VL9 300-8BJ00		1	1 unit	113	0.314		3VL9 300-8BJ00		1	1 unit	113	0.314

DT	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	DT	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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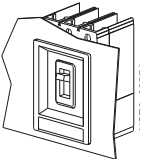
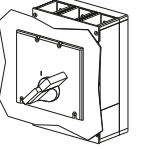
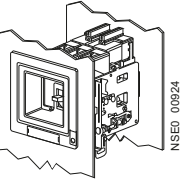
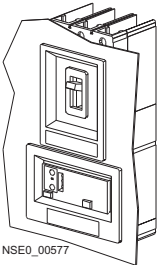
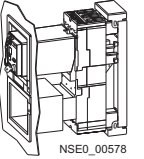
	3VL9 600-8BC00		1	1 unit	113	0,072		3VL9 600-8BC00		1	1 unit	113	0,072
	3VL9 600-8BG00		1	1 unit	113	0.179		3VL9 600-8BG00		1	1 unit	113	0.179
	3VL9 600-8BH00		1	1 unit	113	0.260		3VL9 600-8BH00		1	1 unit	113	0.260
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Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

2

Accessories and spare parts

Version	DT	For VL1250 (3VL7) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Further accessories							
3- or 4-pole							
Masking frames (cover frames) For door cutouts							
 Masking frame A	A	Fixed-mounted or plug-in circuit breaker	3VL9 800-8BC00	1	1 unit	113	0,059
	IP40						
 Masking frame B	B¹⁾	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism	3VL9 800-8BG00	1	1 unit	113	0.272
	IP40						
 Masking frame C	C	Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism)	3VL9 800-8BH00	1	1 unit	113	0.418
	IP20						
 Masking frame D	D	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame	--				
	IP40						
 Masking frame E	E¹⁾	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon	--				
	IP40						

¹⁾ For withdrawable version IP20.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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DT	For VL1600 (3VL8) Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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3VL9 800-8BC00

1 1 unit 113 0,059

3VL9 800-8BG00

1 1 unit 113 0.272

3VL9 800-8BH00

1 1 unit 113 0.418

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Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

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Accessories and spare parts

General criteria for the selection of current transformers for measurement purposes



4NC53 current transformers

Standards	EN 60044-1
Window-type current transformers	The conductor to be measured (busbar or cable) is passed through the window opening and constitutes the primary circuit of the window-type current transformer. Pin-wound transformers: An economical solution especially for small primary currents of 5 ... 75 A are window-type current transformers when the conductor to be measured is pin-wound several times.
Rated primary current I_{pn}	Current transformers can be continuously loaded with 1.3 times the rated primary current (I_{pn}).
Rated secondary current I_{sn} 1 A 5 A	Particularly suitable for longer measuring leads. Cable losses of only 4 % in contrast to 5 A current transformers. 5 A current transformers generate 25 times the power losses on measuring leads as compared with 1 A current transformers. These stray losses result in higher power in the case of long cables. Only recommended for use with short measuring leads.
Accuracy class Class 1 Class 3	Operation measurement, internal metering Current error $\pm 1\%$ at $1 \times I_{pn}$ and $1.2 \times I_{pn}$ Coarse measurement Current error $\pm 3\%$ at $0.5 \times I_{pn}$ and $1.2 \times I_{pn}$
Rated power P_n	The rated power of transformers is specified in VA. The actual load rating should be similar to the rated power; a lower actual load rating (underburden) increases the overcurrent factor and measuring devices are not sufficiently protected in case of a short-circuit, a higher actual load rating (overburden) has a negative effect on the accuracy. With a frequency of 60 Hz the rated power increases to 1.2 times. With $16^{2/3}$ Hz the output power decreases to $1/3$ of the rated power.
Maximum voltage for equipment U_m	This is the rms value of the maximum voltage between the conductors of a system. For this voltage the insulation must be rated at normal operating conditions. 4NC5 current transformers are suitable for 720 V.
Overcurrent limiting factor FS	The overcurrent limiting factor is expressed using the characters FS and a factor, e. g. FS5 or FS10. When a short-circuit current flows through the primary winding of a current transformer, the stress on the measuring devices connected to the current transformer is the lower the smaller the overcurrent limiting factor is.
Rated short-time thermal current I_{th}	The rated short-time thermal current I_{th} is the rms value of the primary current with a duration of one second, whose heat effect the current transformer can resist without being damaged in the event of a short-circuited secondary winding.
Rated impulse current I_{dyn}	The rated impulse current I_{dyn} is the highest instantaneous value of the current after a short circuit whose force the current transformer can resist without being damaged. The rated impulse current is specified as peak value.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

Accessories and spare parts

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4NC current transformers for measuring purposes

	Rated primary current I_{pn}	Rating P_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	VA							kg
Classes 1 and 3, from 50 to 1,500 A									
	Rated secondary current 1A								
	Class 3								
	• For circular conductors with max. diameter 17.5 mm								
	• For busbars up to max. 12 mm × 10 mm								
4NC51 12-0BC20	50	2.5		4NC51 12-0BC20		1	1 unit	103	0.428
	60	2.5		4NC51 13-0BC20		1	1 unit	103	0.427
	75	2.5		4NC51 15-0BC20		1	1 unit	103	0.434
	Class 1								
	• For circular conductors with max. diameter 17.5 mm								
	• For 1 busbar up to max. 12 mm × 10 mm								
4NC51 17-0CC20	100	2.5		4NC51 17-0CC20		1	1 unit	103	0.339
	150	2.5		4NC51 21-0CC20		1	1 unit	103	0.326
	200	5		4NC51 22-0CE20		1	1 unit	103	0.363
	250	5		4NC51 23-0CE20		1	1 unit	103	0.353
	• For circular conductors with max. diameter 28 mm								
	• For 1 busbar up to max. 30 mm × 10 mm								
	• For 2 busbars up to max. 25 mm × 5 mm								
4NC52 22-0CE20	200	5		4NC52 22-0CE20		1	1 unit	103	0.459
	250	5		4NC52 23-0CE20		1	1 unit	103	0.470
	300	5		4NC52 24-0CE20		1	1 unit	103	0.359
	400	5		4NC52 25-0CE20		1	1 unit	103	0.374
	• For circular conductors with max. diameter 36 mm								
	• For 1 busbar up to max. 50 mm × 10 mm								
	• For 2 busbars up to max. 40 mm × 5 mm								
4NC53 25-0CE20	400	5		4NC53 25-0CE20		1	1 unit	103	0.449
	500	5		4NC53 26-0CE20		1	1 unit	103	0.399
	600	5		4NC53 27-0CE20		1	1 unit	103	0.431
	750	5		4NC53 28-0CE20		1	1 unit	103	0.396
	• For circular conductors with max. diameter 45 mm								
	• For 1 busbar up to max. 60 mm × 10 mm								
	• For 2 busbars up to max. 60 mm × 10 mm								
	• For 3 busbars up to max. 60 mm × 5 mm								
4NC54 31-0CH20	1000	10		4NC54 31-0CH20		1	1 unit	103	0.650
	1250	10		4NC54 33-0CH20		1	1 unit	103	0.654
	1500	10		4NC54 34-0CH20		1	1 unit	103	0.724

4NC51 window-type current transformers, used as pin-wound transformers, Classes 1 and 3, from 5 A to 75 A

Pin-winding increases the primary current of the current transformer. Consequently, window-type current transformers can also be used for low primary currents.

Basic type		4NC51 12	4NC51 13	4NC51 15	4NC51 17	4NC51 21	4NC51 22	4NC51 23
Rated primary current	A	50	60	75	100	150	200	250
Rating	VA	2.5	2.5	2.5	2.5	2.5	5	5
Primary current to be measured		Number of required pin windings						
	A	Class 3			Class 1			
 4NC51 used as pin-wound transformer	5	10	--	--	--	--	--	--
	10	5	6	--	10	--	--	--
	15	--	4	5	--	10	--	--
	20	--	3	--	5	--	10	--
	25	2	--	3	4	6	8	10
	30	--	2	--	--	5	--	--
	40	--	--	--	--	--	5	--
	50	--	--	--	2	3	4	5
	75	--	--	--	--	2	--	--

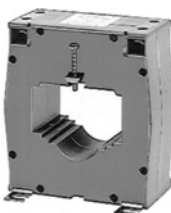
* You can order this quantity or a multiple thereof.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

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Accessories and spare parts

	Rated primary current I_{pn}	Rating P_n	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A	VA							
Rated secondary current 5 A									
	Class 3								
	- For circular conductors with max. diameter 17.5 mm - For 1 busbar up to max. 12 mm × 10 mm								
	50	2.5		4NC51 12-2BC20		1	1 unit	103	0.431
	60	2.5		4NC51 13-2BC20		1	1 unit	103	0.427
	Class 1								
	- For circular conductors with max. diameter 17.5 mm - For 1 busbar up to max. 12 mm × 10 mm								
	100	2.5		4NC51 17-2CC20		1	1 unit	103	0.342
	150	2.5		4NC51 21-2CC20		1	1 unit	103	0.321
	200	5		4NC51 22-2CE20		1	1 unit	103	0.356
	- For circular conductors with max. diameter 28 mm - For 1 busbar up to max. 30 mm × 10 mm - For 2 busbars up to max. 25 mm × 5 mm								
	200	5		4NC52 22-2CE20		1	1 unit	103	0.468
	250	5		4NC52 23-2CE20		1	1 unit	103	0.474
	300	5		4NC52 24-2CE20		1	1 unit	103	0.363
	400	5		4NC52 25-2CE20		1	1 unit	103	0.374
	- For circular conductors with max. diameter 36 mm - For 1 busbars up to max. 50 mm × 10 mm - For 2 busbars up to max. 40 mm × 5 mm								
	400	5		4NC53 25-2CE20		1	1 unit	103	0.460
	500	5		4NC53 26-2CE20		1	1 unit	103	0.407
	600	5		4NC53 27-2CE20		1	1 unit	103	0.430
	750	5		4NC53 28-2CE20		1	1 unit	103	0.390
	- For circular conductors with max. diameter 45 mm - For 1 busbar up to max. 60 mm × 10 mm - For 2 busbars up to max. 60 mm × 10 mm - For 3 busbars up to max. 60 mm × 5 mm								
	1000	10		4NC54 31-2CH20		1	1 unit	103	0.644
	1250	10		4NC54 33-2CH20		1	1 unit	103	0.631
	1500	10		4NC54 34-2CH20		1	1 unit	103	0.691

More information

Manual for the 3VL molded case circuit breaker

This manual contains additional technical information, covering a product description, mode of operation, electrical wiring system and retrofitting.

The manual and operating instructions are available in PDF format at:

www.siemens.com/lowvoltage/manuals

SENTRON manual for communication solutions

Free download from
www.siemens.com/lowvoltage/manuals

See also "Air Circuit Breakers", "3WL Air Circuit Breakers/ Non-Automatic Air Circuit Breakers for AC up to 6300 A, IEC", "Accessories and spare parts".