

Fast Bus Busbar Adapter System

60 mm system – Circuit breaker assemblies and kits

Selection and ordering data

Description

FBCB Fast Bus circuit breakers

Offer a full range of feeder circuit breakers from 15A to 500A. All Sentron kits 125A and under are pre-assembled on 60 mm Fast Bus adaptor shoes and ready to place on the busbar. All other circuit breaker kits are pre-packaged for fast user

assembly and must be torqued down to the busbar prior to assembly. For VL breakers, adaptors are available for up to 500A breakers (both main and feeder orientation). See page 5/8.

3VA and GG Feeder Circuit Breakers

Bus bar system for 3VA circuit breakers are available from 15A up to 500A.

Type	Part Number
Busbar adapter system with 60 mm busbar center-to-center spacing, 3-pole	8US1211-4SS00
	8US1213-4AP03
	8US1213-4AH04

For molded case circuit breakers / SCCR Rating


3VA5 & GG 125A 65KA @ 480VAC	3VA5 250A 100KA @ 480VAC	3VA6 150A-250A 150KA @ 480VAC	3VA5 400A-500A 100KA @ 480VAC	3VA6 400A-500A 150KA @ 480VAC
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✓	—	—	—	—
—	✓	✓	—	—
—	—	—	✓	✓

3VA and GG Main Circuit Breakers

Busbar adapter system with 60 mm busbar center-to-center spacing, top-fed, 15A to 500A 3-pole	8US1215-4SS00
	8US1213-4AP03
	8US1213-4AH04

✓	—	—	—	—
—	✓	✓	—	—
—	—	—	✓	✓

Design	UL Current Rating	Breaker Frame (SCCR Rating ¹⁾)		
		ED (25kA)	HHED (65kA)	FXD (35kA)
Sentron and GG Feeder Circuit Breakers				
 <p>3 pole/600V fully assembled breakers and adaptors that quickly snap onto the Busbar.</p> <p>FBCB100</p>	15A	FBCB015	—	—
	20A	FBCB020	FBCB020H	—
	25A	FBCB025	FBCB025H	—
	30A	FBCB030	FBCB030H	—
	35A	FBCB035	FBCB035H	—
	40A	FBCB040	FBCB040H	—
	45A	FBCB045	FBCB045H	—
	50A	FBCB050	FBCB050H	—
	60A	FBCB060	—	—
	70A	FBCB070	—	—
	80A	FBCB080	—	—
	90A	FBCB090	—	—
	100A	FBCB100	—	—
	110A	FBCB110	—	—
125A	FBCB125	—	—	
3 pole/600V kitted components for customer assembly that require the adaptor to be torqued down to the Busbars prior to assembly.	150A	—	—	FBCB150
	175A	—	—	FBCB175
	200A	—	—	FBCB200
	225A	—	—	FBCB225
	250A	—	—	FBCB250

Design	UL Current Rating	Breaker Frame (SCCR Rating)		
		FXD (25kA) ²⁾	HFXD (65kA)	
Sentron Main Circuit Breakers				
 <p>3 pole/600V kitted components for customer assembly that require the adaptor to be torqued down to the Busbars prior to assembly.</p> <p>FBCB250M</p>	100A	FBCB100M	FBCB100M-HB	—
	125A	FBCB125M	FBCB125M-HB	—
	150A	FBCB150M	FBCB150M-HB	—
	175A	FBCB175M	FBCB175M-HB	—
	200A	FBCB200M	FBCB200M-HB	—
	225A	FBCB225M	FBCB225M-HB	—
	250A	FBCB250M	FBCB250M-HB	—

1) UL Short Circuit Current ratings are based on 480V. Contact Siemens for 600 V ratings.

2) FBCB100M -125M SCCR = 25kA @ 480V
FBCB150M -250M SCCR = 65kA @ 480V

Molded Case Circuit Breakers

Industrial Control Product Catalog 2021

contents

240V Circuit Breakers



BQ Breakers

Selection and ordering data

	240V
BQ	10KAIC
BQH	22KAIC
HBQ	65KAIC

1-, 2- & 3-pole up to 125A for circuit protection up to 240 volt circuits (UL)

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QR Breakers

Selection and ordering data

	240V
QR2	10KAIC
QRH-2	25KAIC
QR2-H	65KAIC
HQR2-H	100KAIC

2- & 3-pole up to 225A for circuit protection up to 240 volt circuits (UL)

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600/347V Circuit Breakers



CQD Breakers

Selection and ordering data

	480/277V	600/347V
CQD	14KAIC	—
CQD-6	—	10KAIC

1-, 2- & 3-pole up to 100A for circuit protection up to 600/347V (CSA) & 480/277V (UL) circuits

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600/347V Circuit Breakers



GG Breakers

Selection and ordering data

	480V	600/347V
NGG	25KAIC	14KAIC
HGG	35KAIC	22KAIC
LGG	65KAIC	25KAIC

1-, 2- & 3-pole up to 125A for circuit protection up to 600/347 volt circuits (UL/CSA/IEC)

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600V Circuit Breakers



3VA51 Breakers

Selection and ordering data

UL Type	480V	600Y/347V
SEAS	25KAIC	14KAIC
MEAS	35KAIC	18KAIC
HEAS	65KAIC	25KAIC

1-, 2-, 3- & 4-pole up to 125A for circuit protection up to 600/347 volt circuits (UL/CSA/IEC)

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3VA61 Breakers

Selection and ordering data

UL Type	480V [Ⓧ]	600V
MDAE	35KAIC	18KAIC
HDAE	65KAIC	22KAIC
CDAE	100KAIC	35KAIC
LDAE	150KAIC	50KAIC
EDAE	200KAIC	100KAIC

3- & 4-pole up to 150A for circuit protection up to 600Y/347 volt circuits (UL/CSA/IEC)

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600V Circuit Breakers



3VA52 Breakers

Selection and ordering data

UL Type	480V	600V
MFAS	35KAIC	18KAIC
HFAS	65KAIC	25KAIC
CFAS	100KAIC	35KAIC

2(3)-, 3- & 4-pole up to 250A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

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3VA62 Breakers

Selection and ordering data

UL Type	480V	600V
MFAE	35KAIC	18KAIC
HFAE	65KAIC	22KAIC
CFAE	100KAIC	35KAIC
LFAE	150KAIC	50KAIC
EFAE	200KAIC	100KAIC

3- & 4-pole up to 250A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

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3VA53 Breakers

Selection and ordering data

UL Type	480V	600V
MJAS	35KAIC	18KAIC
HJAS	65KAIC	25KAIC
CJAS	100KAIC	35KAIC

2(3)-, 3- & 4-pole up to 400A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

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600V Circuit Breakers



3VA63 Breakers

Selection and ordering data

UL Type	480V	600V
MJAE	35KAIC	18KAIC
HJAE	65KAIC	22KAIC
CJAE	100KAIC	35KAIC
LJAE	150KAIC	50KAIC
EJAE	200KAIC	100KAIC

3- & 4-pole up to 400A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

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3VA54 Breakers

Selection and ordering data

UL Type	480V	600V
MLAS	35KAIC	18KAIC
HLAS	65KAIC	25KAIC
CLAS	100KAIC	35KAIC

2(3)-, 3- & 4-pole up to 600A for circuit protection up to 600 volts volt circuits (UL/CSA/IEC)

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3VA64 Breakers

Selection and ordering data

UL Type	480V	600V
MLAE	35KAIC	18KAIC
HLAE	65KAIC	22KAIC
CLAE	100KAIC	35KAIC
LLAE	150KAIC	50KAIC
ELAE	200KAIC	100KAIC

3- & 4-pole up to 600A for circuit protection up to 600 volt circuits (UL/CSA/IEC)

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3VA Molded Case Circuit Breakers

3VA UL Breakers

Catalog Numbering System

Catalog Numbering Logic

3VA 6 1 40 5 HL 3 1 0 A A0

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

Frame Size	
125/150A	1
250A	2
400A	3
600A	4
800A	5
1000A	6

Rated Current											
3VA41/ 3VA51	3VA52	3VA53	3VA54	3VA55	3VA61	3VA62	3VA63	3VA64	3VA65	3VA66	
15A											95
20A	200A	200A									20
	225A	225A									22
25A	250A	250A				250A	250A				25
30A		300A									30
35A		350A									35
40A	40A	400A			40A		400A	400A			40
45A	45A		450A								45
50A	50A		500A								50
60A	60A		600A	600A				600A	600A		60
70A	70A			700A							70
80A	80A			800A					800A		80
90A	90A										90
100A	100A				100A	100A				1000A	10
110A	110A										11
125A	125A										12
	150A				150A						15
	175A										17

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

Trip Unit Protection Functions (see next page for details)

Number of Poles (see next page for details)

Connection Technology (see next page for details)

Regional Specifics (as applicable) (see next page for details)

Auxiliary Releases (see next page for details)

Auxiliary/Alarm Switches (see next page for details)

Catalog Numbering Logic (cont.)



(see previous page for details)

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

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

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

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

Auxiliary Releases	
Without	A

Auxiliary/Alarm Switches	
Without	A0

3VA Molded Case Circuit Breakers

3VA51 125A Thermal-magnetic Trip Circuit Breakers

Selection

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

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



3VA51 125A 3-Pole

Ordering Information

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

Order required lugs or connection technology separately for field installation.

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

For NAVAL-rated thermal-magnetic trip circuit breakers, change the 13th digit of the catalog number to the number "1". (For example, a 35KA @480VAC, 40A, 3-pole, NAVAL rated 3VA51 would be catalog number 3VA5140-5ED31-**1**AA0)

Enclosures (3-pole only)

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

Dimensions

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

Shipping Weight

Ⓞ Available with NAVAL/50C ratings.