SIEMENS

SELECTION GUIDE

RapidSBx™ Switchboard

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RapidSBx™ Switchboards

1200A RapidSBx Switchboards are available in two models:
'SPD Ready' and 'SPD Installed'.

Catalog Number	Description
SBXWW12XBB3RX[1]	Includes 1200A 3VA67 LSIG main breaker equipped with mounting provisions for a TPS4 06 SPD along with blank fillers on the deadfront[2]. Switchboard is dual rated for either 480Y/277V or 208Y/120V AC with a NEMA 3R outdoor enclosure.
SBXWW12EBB3RP[1]	Includes 1200A 3VA67 LSIG main breaker equipped with a 100kA TPS4 06 SPD, catalog no. TPS4E0610X2, and 15A, 120VAC duplex convenience receptacle along with blank fillers on the deadfront[2]. Switchboard is rated for 480Y/277V AC with a NEMA 3R outdoor enclosure.

[1] Branch Breakers and Strap Kits are sold separately
[2] For standard filler plate arrangement, reference page 3

RapidSBx™ Branch Breakers

Siemens 3VA Molded Case Circuit Breakers

Customers can purchase RapidSBx Switchboards and configure the branch breakers locally rather than waiting traditional lead times for an assembled Switchboard. RapidSBx supports numerous 3VA Molded Case Circuit Breaker (MCCB) options with branch strap kits to field install 3VA5 Thermal Magnetic Trip Unit (TMTU) Breakers with available Unit Space. Unit space represents the amount of width required to mount each breaker. Strap kits are unique to RapidSBx Switchboards, breaker frame size, and trip unit type.

For a full list of Siemens compatible 3VA MCCB and accessories, refer to pages 6-13 of this guide.

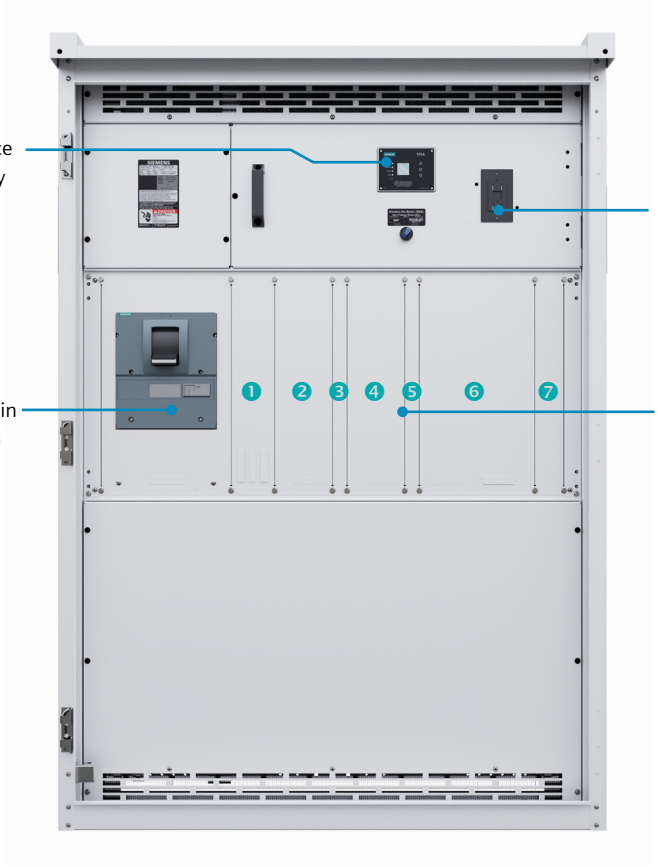
Connection Strap Kits for field installation[1]
Includes straps, coverplates, and necessary hardware to install a branch breaker

Breaker Family	Max Amp Rating	Breaker Type	Catalog Number	Unit Space (inches)	Mounting
3VA	125A	3VA41	S3VA41SBX	3.75	Single
	250A	3VA52	S3VA52SBX	5.00	Single
	400A / 600A	3VA53 / 3VA54	S3VA54SBX	6.25	Single

[1] Standard P5 or SB1, SB2, or SB3 strap kits are not compatible with RapidSBx Switchboards.

Blank Filler Plates

RapidSBx Switchboards ship from the factory with blank filler plates in the arrangement shown below.



Factory Installed Blank Fillers are as follows:
(1) 3.75"
(2) 5.00"
(3) 1.25"
(4) 5.00"
(5) 1.25"
(6) 10.00"
(7) 2.50"

Replacement fillers can be purchased as needed per the unit width increments listed below. Filler plate kits are available in packs of five.

Blank Filler Plates
Includes blank filler plate to cover open unit space

Unit Width (inches)	Catalog Number
1.25	6FPB01SBX
2.5	6FPB02SBX
3.75	6FPB03SBX
5	6FPB05SBX
10	6FPB10SBX

Surge Protection Options

Ordering Information

For RapidSBx Surge Ready Switchboards, catalog no. SBXWW12XBB3RX, the following TPS4 06 surge protection devices are available. Users should consider the Switchboard system voltage when selecting the appropriate TPS4 SPD.

Catalog # **TPS4** ☐ **06** ☐☐ **X** ☐

Voltage Code

C = 208 / 120 V, 3Ø, 4W
E = 480, 277 V, 3Ø, 4W

Surge Current (kA)

10 = 100 kA per phase
15 = 150 kA per phase
20 = 200 kA per phase
25 = 250 kA per phase
30 = 300 kA per phase
40 = 400 kA per phase
50 = 500 kA per phase

Options

X = Surge counter (Standard)

2 = Type 2 SPD (Default)
Includes UL 1283 EMI / RFI Filters

0 = Type 1 SPD

Example: **TPS4C0620X2** - SPD for a 208 / 120 V panelboard with a surge current capacity of 200 kA per phase and Type 2 SPD.

When an option is not selected, include a zero (0) in the field.

208Y / 120 V	Description
US2:TPS4C0610X2	SPD2 100 kA 208/120 3P4W SC
US2:TPS4C0615X2	SPD2 150 kA 208/120 3P4W SC
US2:TPS4C0620X2	SPD2 200 kA 208/120 3P4W SC
US2:TPS4C0625X2	SPD2 250 kA 208/120 3P4W SC
US2:TPS4C0630X2	SPD2 300 kA 208/120 3P4W SC
US2:TPS4C0640X2	SPD2 400 kA 208/120 3P4W SC
US2:TPS4C0650X2	SPD2 500 kA 208/120 3P4W SC

480Y / 277 V	Description
US2:TPS4E0610X2	SPD2 100 kA 480/277 V 3P4W SC
US2:TPS4E0615X2	SPD2 150 kA 480/277 V 3P4W SC
US2:TPS4E0620X2	SPD2 200 kA 480/277 V 3P4W SC
US2:TPS4E0625X2	SPD2 250 kA 480/277 V 3P4W SC
US2:TPS4E0630X2	SPD2 300 kA 480/277 V 3P4W SC
US2:TPS4E0640X2	SPD2 400 kA 480/277 V 3P4W SC
US2:TPS4E0650X2	SPD2 500 kA 480/277 V 3P4W SC

Selection Example

A customer requires a 1200A RapidSBx Switchboard with the following specifications:

- System configuration: 208V AC, 3 phase, 4 wire
- System Interrupt Rating: 65kAIC
- Service Entrance Rated
- 1200A, main breaker with Dynamic Arc Sentry (DAS) for arc energy reduction, NEC240.87 compliance
- TMTU Branch Breakers as follows:
  – (2) 400A, 3 pole, TMTU breakers with (1) 600 kCMIL AL per Ø & N
  – (1) 600A, 3 pole, TMTU breakers with (2) 600 kCMIL AL per Ø & N
  – (2) 60A, 1 pole, TMTU breakers with (1) #6 AL per Ø & N
- 200kA TPS4 Surge Protection Device

Switchboard	**SBXWW12XBB3RX**
Branch Breakers	**2 x 3VA5340-5EC41-0AA0** **1 x 3VA5460-5EC31-0AA0** **2 x 3VA4160-4ED14-0AA0**
Branch Breaker Lugs	**2 x 3VA9373-0JB13 (AWG 1 - 600kcmil)** **1 x 3VA9473-0JJ23 (2/0 - 600kcmil)** **3VA41 Lugs included with breaker**
Branch Strap Kits	**400A – 2 x S3VA54SBX** **600A – 1 x S3VA54SBX** **125A – 1 x S3VA41SBX (3 pole kit)**
Surge Protection Device	**TPS4C0620X2**
Filler	**1 x DFFP1A**

1) Since the system configuration requirement is 208Y, the SPD ready catalog no. SBXWW12XBB3RX is the right selection which is dual voltage rated for either 480Y/277V or 208Y/120V.

2) Both RapidSBx Switchboards ship with a 3VA67 main breaker installed from the factory catalog no. 3VA6712-6HQ31-0AA0 with LSIG protection and DAS.

3) RapidSBx Switchboards are compatible with 3VA4 or 3VA5 TMTU Breakers. Refer to the MCCB section of this document for a list of compatible 3VA breakers.

4) There is 28.75” unit space available for branch breakers. Determine if additional filler plates are necessary to fill any unused spaces. In this scenario, the branch breakers will use up 22.5” of unit space leaving 6.25” of available space (400A – 2 x 6.25” + 600A – 1 x 6.25” + 1 x 3.75”). A 3.75" cover is required to fill the remaining space left from the 10.00" cover. Cover 1 can be repositioned in this space to complete the install.

5) Since only (2) single pole 3VA41 are required, quantity 1 filler, catalog no. DFFP1A is also required.

6) Finally, the “SPD Ready” model ships from the factory with wiring provisions only so it is necessary to select a TPS406 SPD. The system voltage is 208Y/120V, the appropriate SPD catalog no. TPS4C0620X2.

Note:
Switchboards with 15A Duplex Receptacle are only available with a 480V rating.

Compatible 3VA Molded Case Circuit Breakers

3VA41 125A Frame, 1-Pole Thermal-Magnetic Trip Unit

Cont. Amp Rating	S-Interrupting Class (SEAB) Catalog Number	M-Interrupting Class (MEAB) Catalog Number	H-Interrupting Class (HEAB) Catalog Number
	TM210 FTFM		
15	3VA4195-4ED14-0AA0①②	3VA4195-5ED14-0AA0①②	3VA4195-6ED14-0AA0①②
20	3VA4120-4ED14-0AA0①②	3VA4120-5ED14-0AA0①②	3VA4120-6ED14-0AA0①②
25	3VA4125-4ED14-0AA0②	3VA4125-5ED14-0AA0②	3VA4125-6ED14-0AA0②
30	3VA4130-4ED14-0AA0②	3VA4130-5ED14-0AA0②	3VA4130-6ED14-0AA0②
35	3VA4135-4ED14-0AA0②	3VA4135-5ED14-0AA0②	3VA4135-6ED14-0AA0②
40	3VA4140-4ED14-0AA0②	3VA4140-5ED14-0AA0②	3VA4140-6ED14-0AA0②
45	3VA4145-4ED14-0AA0②	3VA4145-5ED14-0AA0②	3VA4145-6ED14-0AA0②
50	3VA4150-4ED14-0AA0②	3VA4150-5ED14-0AA0②	3VA4150-6ED14-0AA0②
60	3VA4160-4ED14-0AA0	3VA4160-5ED14-0AA0	3VA4160-6ED14-0AA0
70	3VA4170-4ED14-0AA0	3VA4170-5ED14-0AA0	3VA4170-6ED14-0AA0
80	3VA4180-4ED14-0AA0	3VA4180-5ED14-0AA0	3VA4180-6ED14-0AA0
90	3VA4190-4ED14-0AA0	3VA4190-5ED14-0AA0	3VA4190-6ED14-0AA0
100	3VA4110-4ED14-0AA0	3VA4110-5ED14-0AA0	3VA4110-6ED14-0AA0
110	3VA4111-4ED14-0AA0	3VA4111-5ED14-0AA0	3VA4111-6ED14-0AA0
125	3VA4112-4ED14-0AA0	3VA4112-5ED14-0AA0	3VA4112-6ED14-0AA0

3VA41 125A Frame, 1 in 2-Pole Thermal-Magnetic Trip Unit

Cont. Amp Rating	S-Interrupting Class (SEAB) Catalog Number	M-Interrupting Class (MEAB) Catalog Number	H-Interrupting Class (HEAB) Catalog Number
	TM210 FTFM①		
15	3VA4195-4ED54-0AA0①②	3VA4195-5ED54-0AA0①②	3VA4195-6ED54-0AA0①②
20	3VA4120-4ED54-0AA0①②	3VA4120-5ED54-0AA0①②	3VA4120-6ED54-0AA0①②
25	3VA4125-4ED54-0AA0②	3VA4125-5ED54-0AA0②	3VA4125-6ED54-0AA0②
30	3VA4130-4ED54-0AA0②	3VA4130-5ED54-0AA0②	3VA4130-6ED54-0AA0②
35	3VA4135-4ED54-0AA0②	3VA4135-5ED54-0AA0②	3VA4135-6ED54-0AA0②
40	3VA4140-4ED54-0AA0②	3VA4140-5ED54-0AA0②	3VA4140-6ED54-0AA0②
45	3VA4145-4ED54-0AA0②	3VA4145-5ED54-0AA0②	3VA4145-6ED54-0AA0②
50	3VA4150-4ED54-0AA0②	3VA4150-5ED54-0AA0②	3VA4150-6ED54-0AA0②
60	3VA4160-4ED54-0AA0	3VA4160-5ED54-0AA0	3VA4160-6ED54-0AA0
70	3VA4170-4ED54-0AA0	3VA4170-5ED54-0AA0	3VA4170-6ED54-0AA0
80	3VA4180-4ED54-0AA0	3VA4180-5ED54-0AA0	3VA4180-6ED54-0AA0
90	3VA4190-4ED54-0AA0	3VA4190-5ED54-0AA0	3VA4190-6ED54-0AA0
100	3VA4110-4ED54-0AA0	3VA4110-5ED54-0AA0	3VA4110-6ED54-0AA0
110	3VA4111-4ED54-0AA0	3VA4111-5ED54-0AA0	3VA4111-6ED54-0AA0
125	3VA4112-4ED54-0AA0	3VA4112-5ED54-0AA0	3VA4112-6ED54-0AA0

3VA41 125A Frame, 2-Pole Thermal-Magnetic Trip Unit

Cont. Amp Rating	S-Interrupting Class (SEAB) Catalog Number	M-Interrupting Class (MEAB) Catalog Number	H-Interrupting Class (HEAB) Catalog Number
	TM210 FTFM		
15	**3VA4195-4ED24-0AA0①②**	**3VA4195-5ED24-0AA0①②**	**3VA4195-6ED24-0AA0①②**
20	**3VA4120-4ED24-0AA0①②**	**3VA4120-5ED24-0AA0①②**	**3VA4120-6ED24-0AA0①②**
25	**3VA4125-4ED24-0AA0②**	**3VA4125-5ED24-0AA0②**	**3VA4125-6ED24-0AA0②**
30	**3VA4130-4ED24-0AA0②**	**3VA4130-5ED24-0AA0②**	**3VA4130-6ED24-0AA0②**
35	**3VA4135-4ED24-0AA0②**	**3VA4135-5ED24-0AA0②**	**3VA4135-6ED24-0AA0②**
40	**3VA4140-4ED24-0AA0②**	**3VA4140-5ED24-0AA0②**	**3VA4140-6ED24-0AA0②**
45	**3VA4145-4ED24-0AA0②**	**3VA4145-5ED24-0AA0②**	**3VA4145-6ED24-0AA0②**
50	**3VA4150-4ED24-0AA0②**	**3VA4150-5ED24-0AA0②**	**3VA4150-6ED24-0AA0②**
60	**3VA4160-4ED24-0AA0**	**3VA4160-5ED24-0AA0**	**3VA4160-6ED24-0AA0**
70	**3VA4170-4ED24-0AA0**	**3VA4170-5ED24-0AA0**	**3VA4170-6ED24-0AA0**
80	**3VA4180-4ED24-0AA0**	**3VA4180-5ED24-0AA0**	**3VA4180-6ED24-0AA0**
90	**3VA4190-4ED24-0AA0**	**3VA4190-5ED24-0AA0**	**3VA4190-6ED24-0AA0**
100	**3VA4110-4ED24-0AA0**	**3VA4110-5ED24-0AA0**	**3VA4110-6ED24-0AA0**
110	**3VA4111-4ED24-0AA0**	**3VA4111-5ED24-0AA0**	**3VA4111-6ED24-0AA0**
125	**3VA4112-4ED24-0AA0**	**3VA4112-5ED24-0AA0**	**3VA4112-6ED24-0AA0**

① SWD rated
② HID rated



3VA41 125A 1-Pole



3VA41 125A 1 in 2-Pole



3VA41 125A 2-Pole

Ordering Information

The catalog number listed here are for complete, non-interchangable trip circuit breakers with load lugs installed. 3VA4 breakers up to 40A include 3VA9133-0JB10 lugs. 45A to 125A breakers include 3VA9133-0JB11 lugs.

All 3VA41 thermal-magnetic trip circuit breakers are UL listed for reverse feed applications.

Compatible 3VA Molded Case Circuit Breakers

3VA41 125A Frame, 3-Pole Thermal-Magnetic Trip Unit

Cont. Amp Rating	S-Interrupting Class (SEAB)	M-Interrupting Class (MEAB)	H-Interrupting Class (HEAB)
	Catalog Number	Catalog Number	Catalog Number
	TM210 FTFM		
15	3VA4195-4ED34-0AA0①②	3VA4195-5ED34-0AA0①②	3VA4195-6ED34-0AA0①②
20	3VA4120-4ED34-0AA0①②	3VA4120-5ED34-0AA0①②	3VA4120-6ED34-0AA0①②
25	3VA4125-4ED34-0AA0②	3VA4125-5ED34-0AA0②	3VA4125-6ED34-0AA0②
30	3VA4130-4ED34-0AA0②	3VA4130-5ED34-0AA0②	3VA4130-6ED34-0AA0②
35	3VA4135-4ED34-0AA0②	3VA4135-5ED34-0AA0②	3VA4135-6ED34-0AA0②
40	3VA4140-4ED34-0AA0②	3VA4140-5ED34-0AA0②	3VA4140-6ED34-0AA0②
45	3VA4145-4ED34-0AA0②	3VA4145-5ED34-0AA0②	3VA4145-6ED34-0AA0②
50	3VA4150-4ED34-0AA0②	3VA4150-5ED34-0AA0②	3VA4150-6ED34-0AA0②
60	3VA4160-4ED34-0AA0	3VA4160-5ED34-0AA0	3VA4160-6ED34-0AA0
70	3VA4170-4ED34-0AA0	3VA4170-5ED34-0AA0	3VA4170-6ED34-0AA0
80	3VA4180-4ED34-0AA0	3VA4180-5ED34-0AA0	3VA4180-6ED34-0AA0
90	3VA4190-4ED34-0AA0	3VA4190-5ED34-0AA0	3VA4190-6ED34-0AA0
100	3VA4110-4ED34-0AA0	3VA4110-5ED34-0AA0	3VA4110-6ED34-0AA0
110	3VA4111-4ED34-0AA0	3VA4111-5ED34-0AA0	3VA4111-6ED34-0AA0
125	3VA4112-4ED34-0AA0	3VA4112-5ED34-0AA0	3VA4112-6ED34-0AA0



3VA41 125A
3-Pole

Trip Settings for 3VA41

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

Interrupting Ratings for 3VA41

Inter-rupting Class	Breaker Type	Poles	RMS Symmetrical Amperes (kA) Volts AC (50/60 Hz) 120	240	277	347	480Y/ 277V	480
S	SEAB	1	65		25	14		
		2, 3		65			25	25
M	MEAB	1	85		35	18		
		2, 3		85			35	35
H	HEAB	1	150		65	25		
		2, 3		150			65	65

Dimensions

Shipping Weight

Breaker	Poles	W in. (mm)	H in. (mm)	D in. (mm)	lbs.	kg
3VA41	1	1 (25.4)	5.1 (129.4)	3.6 (92.2)	0.62	0.28
3VA41	1 in 2	2 (50.8)	5.1 (129.4)	3.6 (92.2)	0.94	0.43
3VA41	2	2 (50.8)	5.1 (129.4)	3.6 (92.2)	1.13	0.51
3VA41	3	3 (76.2)	5.1 (129.4)	3.6 (92.2)	1.64	0.74

Connectors for 75C Wire for 3VA41

Type	Min. cable size	Max. cable size	Catalog No. (kit of 3 lugs)
Aluminum body lug small (Cu/Al cable), 1 cable lug	AWG 14	AWG 8	3VA9133-0JB10③
Aluminum body lug (Cu/Al cable), 1 cable lugs	AWG 8	3/0	3VA9133-0JB11④
Aluminum body lug small with control wire tap (Cu/Al cable), 1 cable lug	AWG 14	AWG 8	3VA9133-0JG10③
Aluminum body lug with control wire tap (Cu/Al cable), 1 cable lugs	AWG 8	3/0	3VA9133-0JG11④
Copper body lug small (Cu cable only), 1 cable lugs	AWG 14	AWG 8	3VA9133-0JD10③
Copper body lug (Cu cable only), 1 cable lugs	AWG 8	2/0	3VA9133-0JD11④
Copper body lug small with control wire tap (Cu cable only), 1 cable lugs	AWG 14	AWG 8	3VA9133-0JK10③
Copper body lug with control wire tap (Cu cable only), 1 cable lugs	AWG 8	2/0	3VA9133-0JK11④

3VA4 Accessories

Description	Catalog Number
Padlocking Device for 3VA4 breaker	3VA9038-0LB11

① SWD rated.
② HID rated.
③ Use these lugs on 15A to 40A breakers.
④ Use these lugs on 45A to 125A breakers.

3VA Molded Case Circuit Breakers

3VA52 250 A, 2-Pole in 3-Pole Frame Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MFAS)	H-Interrupting Class (HFAS)	C-Interrupting Class (CFAS)
	Catalog Number	Catalog Number	Catalog Number
		TM210 FTFM	
70	3VA5270-5EC61-0AA0	3VA5270-6EC61-0AA0	3VA5270-7EC61-0AA0
80	3VA5280-5EC61-0AA0	3VA5280-6EC61-0AA0	3VA5280-7EC61-0AA0
90	3VA5290-5EC61-0AA0	3VA5290-6EC61-0AA0	3VA5290-7EC61-0AA0
100	3VA5210-5EC61-0AA0	3VA5210-6EC61-0AA0	3VA5210-7EC61-0AA0
110	3VA5211-5EC61-0AA0	3VA5211-6EC61-0AA0	3VA5211-7EC61-0AA0
125	3VA5212-5EC61-0AA0	3VA5212-6EC61-0AA0	3VA5212-7EC61-0AA0
150	3VA5215-5EC61-0AA0	3VA5215-6EC61-0AA0	3VA5215-7EC61-0AA0
175	3VA5217-5EC61-0AA0	3VA5217-6EC61-0AA0	3VA5217-7EC61-0AA0
200	3VA5220-5EC61-0AA0	3VA5220-6EC61-0AA0	3VA5220-7EC61-0AA0
225	3VA5222-5EC61-0AA0	3VA5222-6EC61-0AA0	3VA5222-7EC61-0AA0
250	3VA5225-5EC61-0AA0	3VA5225-6EC61-0AA0	3VA5225-7EC61-0AA0

Dimensions

Shipping Weight

Breaker	Poles	W in. (mm)	H in. (mm)	D in. (mm)	lbs.	kg
3VA52	2 (3-) pole	4.1 (105)	7.3 (185)	3.3 (83)	4.1	1.9
3VA52	3-pole	4.1 (105)	7.3 (185)	3.3 (83)	4.5	2.1

3VA52 250 A Frame, 3-Pole Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MFAS)	H-Interrupting Class (HFAS)	C-Interrupting Class (CFAS)
	Catalog Number	Catalog Number	Catalog Number
		TM210 FTFM①	
		TM230 FTAM①	
70	3VA5270-5EC31-0AA0	3VA5270-6EC31-0AA0	3VA5270-7EC31-0AA0
80	3VA5280-5EC31-0AA0	3VA5280-6EC31-0AA0	3VA5280-7EC31-0AA0
90	3VA5290-5EC31-0AA0	3VA5290-6EC31-0AA0	3VA5290-7EC31-0AA0
100	3VA5210-5EC31-0AA0	3VA5210-6EC31-0AA0	3VA5210-7EC31-0AA0
110	3VA5211-5EC31-0AA0	3VA5211-6EC31-0AA0	3VA5211-7EC31-0AA0
125	3VA5212-5EC31-0AA0	3VA5212-6EC31-0AA0	3VA5212-7EC31-0AA0
150	3VA5215-5EC31-0AA0	3VA5215-6EC31-0AA0	3VA5215-7EC31-0AA0
175	3VA5217-5EC31-0AA0	3VA5217-6EC31-0AA0	3VA5217-7EC31-0AA0
200	3VA5220-5EC31-0AA0	3VA5220-6EC31-0AA0	3VA5220-7EC31-0AA0
225	3VA5222-5EC31-0AA0	3VA5222-6EC31-0AA0	3VA5222-7EC31-0AA0
250	3VA5225-5EC31-0AA0	3VA5225-6EC31-0AA0	3VA5225-7EC31-0AA0
		TM240 ATAM	
70	3VA5270-5EF31-0AA0	3VA5270-6EF31-0AA0	3VA5270-7EF31-0AA0
80	3VA5280-5EF31-0AA0	3VA5280-6EF31-0AA0	3VA5280-7EF31-0AA0
100	3VA5210-5EF31-0AA0	3VA5210-6EF31-0AA0	3VA5210-7EF31-0AA0
125	3VA5212-5EF31-0AA0	3VA5212-6EF31-0AA0	3VA5212-7EF31-0AA0
150	3VA5215-5EF31-0AA0	3VA5215-6EF31-0AA0	3VA5215-7EF31-0AA0
175	3VA5217-5EF31-0AA0	3VA5217-6EF31-0AA0	3VA5217-7EF31-0AA0
200	3VA5220-5EF31-0AA0	3VA5220-6EF31-0AA0	3VA5220-7EF31-0AA0
250	3VA5225-5EF31-0AA0	3VA5225-6EF31-0AA0	3VA5225-7EF31-0AA0

Dimensions

Shipping Weight

Breaker	Poles	W in. (mm)	H in. (mm)	D in. (mm)	lbs.	kg
3VA52	2 (3-) pole	4.1 (105)	7.3 (185)	3.3 (83)	4.1	1.9
3VA52	3-pole	4.1 (105)	7.3 (185)	3.3 (83)	4.5	2.1



3VA52 250A 3-Pole

Ordering Information

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

All 3VA52 thermal-magnetic trip circuit breakers are UL listed for reverse feed applications.

3VA Molded Case Circuit Breakers

Interrupting Ratings for 3VA52

Interrupting Class	Breaker Type	RMS Symmetrical Amperes (kA) Volts AC (50/60 Hz) 240	480Y/277V	480
M	MFAS	85	35	35
H	HFAS	100	65	65
C	CFAS	200	100	100

Trip Settings for 3VA52

TM230 FTAM

I_n (A)	I_r (A)	I_i (A)					
70	70	350	420	490	560	630	700
80	80	400	480	560	640	720	800
90	90	450	540	630	720	810	900
100	100	500	600	700	800	900	1000
110	110	550	660	770	880	990	1100
125	125	625	750	875	1000	1125	1250
150	150	750	900	1050	1200	1350	1500
175	175	875	1050	1225	1400	1575	1750
200	200	1000	1200	1400	1600	1800	2000
225	225	1125	1350	1575	1800	2025	2250
250	250	1250	1500	1750	2000	2250	2500

TM240 ATAM

I_n (A)	I_r (A) 90%	I_r (A) 80%	I_i (A)					
70	63	56	350	420	490	560	630	700
80	72	64	400	480	560	640	720	800
100	90	80	500	600	700	800	900	1000
125	113	100	625	750	875	1000	1125	1250
150	135	120	750	900	1050	1200	1350	1500
175	158	140	875	1050	1225	1400	1575	1750
200	180	160	1000	1200	1400	1600	1800	2000
250	225	200	1250	1500	1750	2000	2250	2500

Connectors for 75C Wire for 3VA52

Type	Minimum cable size	Maximum cable size	Part Number (kit of 3 lugs)	Part Number (kit of 4 lugs)
Aluminum body lug (Cu/Al cable), single cable lugs	AWG 14	1/0	3VA9233-0JB11②	3VA9234-0JB11②
	AWG 6	350 kcmil	3VA9233-0JB12①③	3VA9234-0JB12①③
Aluminum body lug (Cu/Al cable) with control wire tap, single cable lugs	AWG 14	1/0	3VA9233-0JG11②	3VA9234-0JG11②
	AWG 6	350 kcmil	3VA9233-0JG12③	3VA9234-0JG12③
Aluminum body lug large (Cu/Al cable) single cable lugs with 1 extended terminal cover	AWG 2	350 kcmil	3VA9233-0JJ13③	3VA9234-0JJ13③
Aluminum body lug large with control wire tap (Cu/Al cable) single cable lugs and 1 extended terminal cover	AWG 2	350 kcmil	3VA9233-0JC13③	3VA9234-0JC13③
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	AWG 4	300 kcmil	3VA9233-0JJ22③	3VA9234-0JJ22③
Copper body lug (Cu cable only) single cable lugs	AWG 14	1/0	3VA9233-0JD11	3VA9234-0JD11
	AWG 6	350 kcmil	3VA9233-0JD12④	3VA9234-0JD12④
Copper body lug with control wire tap (Cu cable only) single cable lugs	AWG 14	1/0	3VA9233-0JK11	3VA9234-0JK11
	AWG 6	350 kcmil	3VA9233-0JK12④	3VA9234-0JK12④

① Standard lug installed at the factory when breaker ordered with a "6" in the 12th position.

3VA Molded Case Circuit Breakers

3VA53 400A, 2-Pole in 3-Pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MJAS)	H-Interrupting Class (HJAS)	C-Interrupting Class (CJAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM	
200	3VA5320-5EC61-0AA0	3VA5320-6EC61-0AA0	3VA5320-7EC61-0AA0
225	3VA5322-5EC61-0AA0	3VA5322-6EC61-0AA0	3VA5322-7EC61-0AA0
250	3VA5325-5EC61-0AA0	3VA5325-6EC61-0AA0	3VA5325-7EC61-0AA0
300	3VA5330-5EC61-0AA0	3VA5330-6EC61-0AA0	3VA5330-7EC61-0AA0
350	3VA5335-5EC61-0AA0	3VA5335-6EC61-0AA0	3VA5335-7EC61-0AA0
400	3VA5340-5EC61-0AA0	3VA5340-6EC61-0AA0	3VA5340-7EC61-0AA0

3VA53 400A Frame, 3-Pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MJAS)	H-Interrupting Class (HJAS)	C-Interrupting Class (CJAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM①	
200	3VA5320-5EC31-0AA0	3VA5320-6EC31-0AA0	3VA5320-7EC31-0AA0
225	3VA5322-5EC31-0AA0	3VA5322-6EC31-0AA0	3VA5322-7EC31-0AA0
250	3VA5325-5EC31-0AA0	3VA5325-6EC31-0AA0	3VA5325-7EC31-0AA0
300	3VA5330-5EC31-0AA0	3VA5330-6EC31-0AA0	3VA5330-7EC31-0AA0
350	3VA5335-5EC31-0AA0	3VA5335-6EC31-0AA0	3VA5335-7EC31-0AA0
400	3VA5340-5EC31-0AA0	3VA5340-6EC31-0AA0	3VA5340-7EC31-0AA0
		TM240 ATAM	
200	3VA5320-5EF31-0AA0	3VA5320-6EF31-0AA0	3VA5320-7EF31-0AA0
225	3VA5322-5EF31-0AA0	3VA5322-6EF31-0AA0	3VA5322-7EF31-0AA0
250	3VA5325-5EF31-0AA0	3VA5325-6EF31-0AA0	3VA5325-7EF31-0AA0
300	3VA5330-5EF31-0AA0	3VA5330-6EF31-0AA0	3VA5330-7EF31-0AA0
350	3VA5335-5EF31-0AA0	3VA5335-6EF31-0AA0	3VA5335-7EF31-0AA0
400	3VA5340-5EF31-0AA0	3VA5340-6EF31-0AA0	3VA5340-7EF31-0AA0

① Available with NAVAL/50C ratings.

Trip Settings for 3VA53

TM230 FTAM							
I_n (Amp)	I_r(Amp)	I_i (Amp)					
200	200	1000	1200	1400	1600	1800	2000
225	225	1125	1350	1575	1800	2025	2250
250	250	1250	1500	1750	2000	2250	2500
300	300	1500	1800	2100	2400	2700	3000
350	350	1750	2100	2450	2800	3150	3500
400	400	2000	2400	2800	3200	3600	4000

TM240 ATAM								
I_n (Amp)	I_r(Amp) 90%	I_r(Amp) 80%	I_i (Amp)					
200	180	160	1000	1200	1400	1600	1800	2000
225	203	180	1125	1350	1575	1800	2025	2250
250	225	200	1250	1500	1750	2000	2250	2500
300	270	240	1500	1800	2100	2400	2700	3000
350	315	280	1750	2100	2450	2800	3150	3500
400	360	320	2000	2400	2800	3200	3600	4000



3VA53 400A 3-Pole

Ordering Information

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

For factory installed nut keepers (3VA94730QA00), change the 12th digit of the catalog number to "2" (required to install a breaker in a panelboard or switchboard that has a provision). (For example, a 35KA @480VAC, 400A, 3-pole, 3VA53 with nut keepers would be catalog number 3VA5340-5EC32-0AA0).

All 3VA53 thermal-magnetic trip circuit breakers are UL listed for reverse feed applications.

3VA Molded Case Circuit Breakers

Dimensions / Shipping Weight

Breaker	Poles	W in. (mm)	H in. (mm)	D in. (mm)	lbs.	kg
3VA53	3	5.4 (137)	9.8 (249)	5.4 (137)	11.5	5.2

Interrupting Ratings for 3VA53

		RMS Symmetrical Amperes (kA) Volts AC (50/60 Hz)		
Interrupting Class	Breaker Type	240	480Y/ 277V	480
M	MJAS	85	35	35
H	HJAS	100	65	65
C	CJAS	200	100	100

Connections for 75C wire for 3VA53

Type	Minimum cable size	Maximum cable size	Part Number (kit of 3 lugs)
Aluminum body lug (Cu/Al cable) single cable lugs	AWG 1	600 kcmil	**3VA9373-0JB13**①⑤
Aluminum body lug with control wire tap (Cu/Al cable) single cable lugs	AWG 1	600 kcmil	**3VA9373-0JG13**①
Copper body lug (Cu cable only) single cable lugs	AWG 1	600 kcmil	**3VA9373-0JD13**①③
Copper body lug (Cu cable only) with control wire tap single cable lugs	AWG 1	600 kcmil	**3VA9373-0JK13**①③
Aluminum body lug, 2 cables (Cu/Al cable) with 1 extended terminal cover	2/0	600 kcmil	**3VA9473-0JJ23**①②
Aluminum body lug, 2 cables (Cu/Al cable) with 1 intermediate terminal cover	250 kcmil or 2× 250 kcmil	750 kcmil	**3VA9373-0JJ24**①③
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	2/0	600 kcmil	**3VA9473-0JC23**①②
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 intermediate terminal cover	250 kcmil or 2× 250 kcmil	750 kcmil	**3VA9373-0JC24**①③
Copper body lug, 2 cables (Cu cable only) with 1 extended terminal cover	2/0	600 kcmil	**3VA9473-0JE23**①④
Copper body lug, 2 cables (Cu cable only) with control wire tap and 1 extended terminal cover	2/0	600 kcmil	**3VA9473-0JL23**①④

⑤ Standard lug installed at the factory when breaker ordered with a "6" in the 12th position.

3VA Molded Case Circuit Breakers

3VA54 600A, 2-Pole in 3-Pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MLAS)	H-Interrupting Class (HLAS)	C-Interrupting Class (CLAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM	
450	3VA5445-5EC61-0AA0	3VA5445-6EC61-0AA0	3VA5445-7EC61-0AA0
500	3VA5450-5EC61-0AA0	3VA5450-6EC61-0AA0	3VA5450-7EC61-0AA0
600	3VA5460-5EC61-0AA0	3VA5460-6EC61-0AA0	3VA5460-7EC61-0AA0

3VA54 600A Frame, 3-Pole Frame, Thermal-Magnetic Trip Unit

Cont. Ampere Rating	M-Interrupting Class (MLAS)	H-Interrupting Class (HLAS)	C-Interrupting Class (CLAS)
	Catalog Number	Catalog Number	Catalog Number
		TM230 FTAM①	
450	**3VA5445-5EC31-0AA0**	**3VA5445-6EC31-0AA0**	**3VA5445-7EC31-0AA0**
500	**3VA5450-5EC31-0AA0**	**3VA5450-6EC31-0AA0**	**3VA5450-7EC31-0AA0**
600	**3VA5460-5EC31-0AA0**	**3VA5460-6EC31-0AA0**	**3VA5460-7EC31-0AA0**
		TM240 ATAM	
450	**3VA5445-5EF31-0AA0**	**3VA5445-6EF31-0AA0**	**3VA5445-7EF31-0AA0**
500	**3VA5450-5EF31-0AA0**	**3VA5450-6EF31-0AA0**	**3VA5450-7EF31-0AA0**
600	**3VA5460-5EF31-0AA0**	**3VA5460-6EF31-0AA0**	**3VA5460-7EF31-0AA0**

① Available with NAVAL/50C ratings.



3VA54
600A 3-Pole

Ordering Information

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

For factory installed nut keepers (3VA94730QA00), change the 12th digit of the catalog number to "2" (required to install a breaker in a panelboard or switchboard that has a provision). (For example, a 35KA @480VAC, 600A, 3-pole, 3VA54 with nut keepers would be catalog number 3VA5460-5EC32-0AA0).

All 3VA54 thermal-magnetic trip circuit breakers are UL listed for reverse feed applications.

Dimensions

Shipping Weight

Breaker	Poles	W in. (mm)	H in. (mm)	D in. (mm)	lbs.	kg
3VA54	3	5.4 (137)	9.8 (249)	5.4 (137)	11.5	5.2

Interrupting Ratings for 3VA54

		RMS Symmetrical Amperes (kA) Volts AC (50/60 Hz)		
Interrupting Class	Breaker Type	240	480Y/ 277V	480
M	MLAS	85	35	35
H	HLAS	100	65	65
C	CLAS	200	100	100

Trip Settings for 3VA54

TM230 FTAM							
I_n (A)	I_r(A)	I_i (A)					
450	450	2250	2700	3150	3600	4050	4500
500	500	2500	3000	3500	4000	4500	5000
600	600	3000	3600	4200	4800	5400	6000

TM240 ATAM								
I_n (A)	I_r(A) 90%	I_r(A) 80%	I_i (A)					
450	405	360	2250	2700	3150	3600	4050	4500
500	450	400	2500	3000	3500	4000	4500	5000
600	540	480	3000	3600	4200	4800	5400	6000

3VA Molded Case Circuit Breakers

Connections for 75C wire for 3VA54

Type	Minimum cable size	Maximum cable size	Part Number (kit of 3 lugs)
Aluminum Body Lug (Cu/Al cable) single cable lugs	AWG 1	600 kcmil	3VA9373-0JB13
Aluminum body lug with control wire tap (Cu/Al cable) single cable lugs	AWG 1	600 kcmil	3VA9373-0JG13
Copper body lug (Cu cable only) single cable lugs	AWG 1	600 kcmil	3VA9373-0JD13①⑦
Copper body lug (Cu cable only) with control wire tap single cable lugs	AWG 1	600 kcmil	3VA9373-0JK13①
Aluminum body lug, 2 cables (Cu/Al cable) with 1 extended terminal cover	2/0	600 kcmil	3VA9473-0JJ23⑥
Aluminum body lug, 2 cables (Cu/Al cable) with 1 intermediate terminal cover	250 kcmil or 2× 250 kcmil	750 kcmil	3VA9373-0JJ24①
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 extended terminal cover	2/0	600 kcmil	3VA9473-0JC23
Aluminum body lug, 2 cables (Cu/Al cable) with control wire tap and 1 intermediate terminal cover	250 kcmil or 2× 250 kcmil	750 kcmil	3VA9373-0JC24①
Copper body lug, 2 cables (Cu cable only) with 1 extended terminal cover	2/0	600 kcmil	3VA9473-0JE23②
Copper body lug, 2 cables (Cu cable only) with control wire tap and 1 extended terminal cover	2/0	600 kcmil	3VA9473-0JL23②

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

Notes

Notes

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Order No. SWSG-EVSWB-0624

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