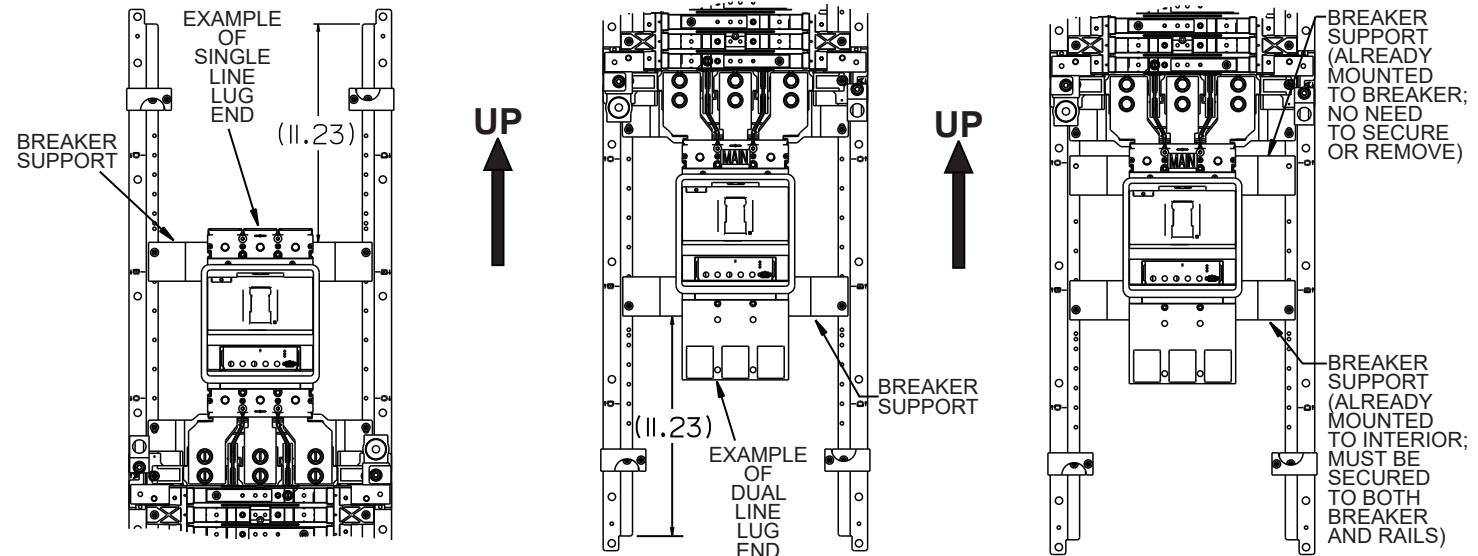


NOTE: For both feed location configurations, the breaker handle must point UPWARD when in the "ON" position.



TOP FEED CONFIGURATION BOTTOM FEED CONFIGURATION

Figure 2: Top & Bottom Feed Kit Configurations

NOTE: For both feed location configurations, the filler is oriented as shown, with the "MAIN" label positioned above the breaker handle.

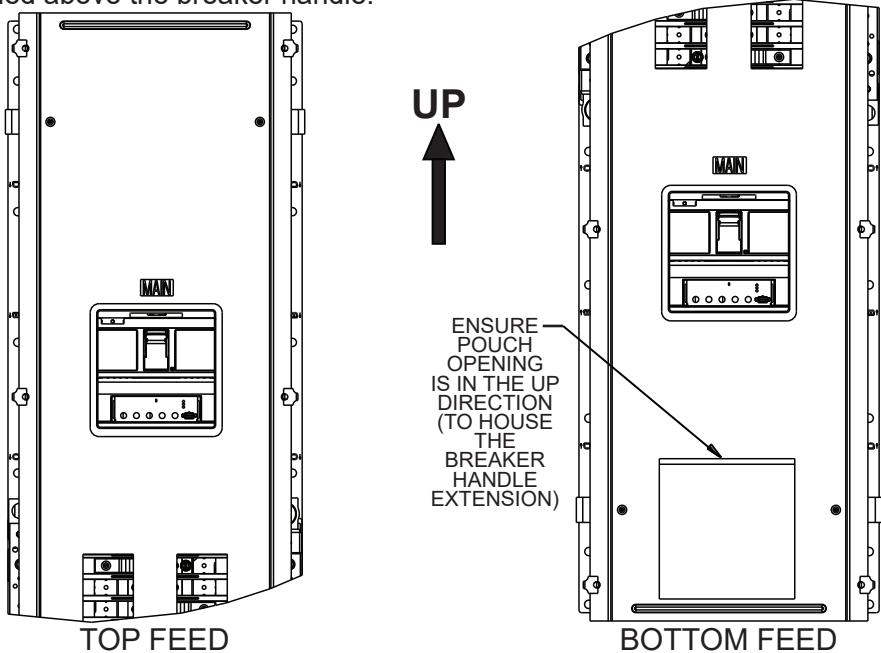


Figure 3: Top & Bottom Feed Deadfront Filler Installation

These instructions do not purport to cover all details or variations in equipment, or to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the local Siemens sales office. The contents of this Instruction manual shall not become part of or modify any prior or existing agreement, commitment or relationship. The sales contract contains the entire obligation of Siemens. The warranty contained in the contract between the parties is the sole warranty of Siemens. Any statements contained herein do not create new warranties or modify the existing warranty.

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SIEMENS

MBKVA5363A

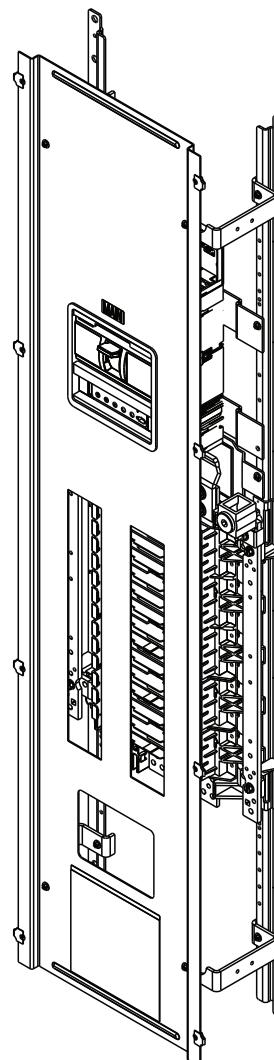
3VA Main Breaker Kit for P1-400 Panelboards

(for use in Revised P1 Panelboards ONLY)^{1,2}

Installation
Instructions

Also for 3VA
breaker kits
with breaker
INCLUDED.

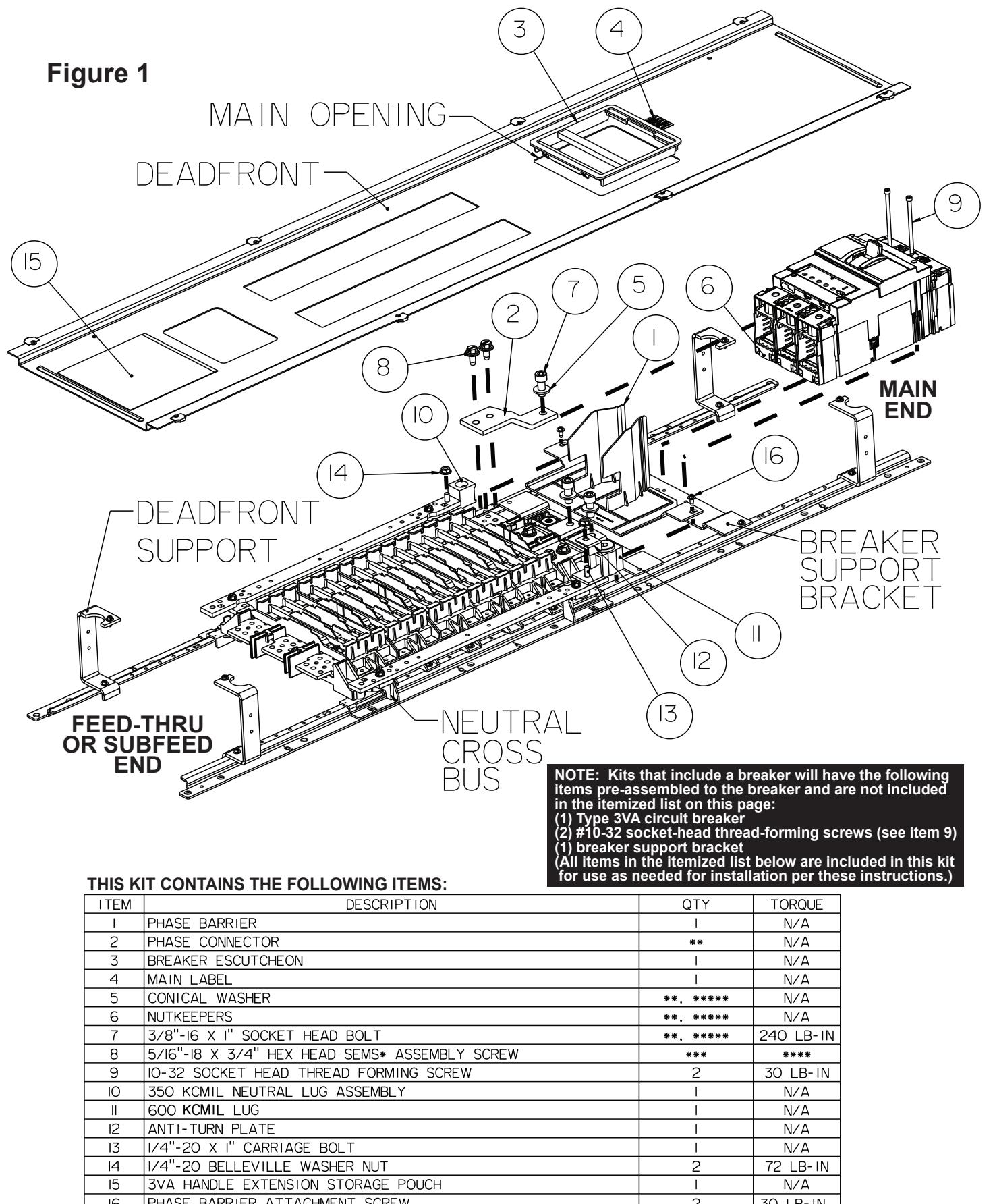
Part numbers:
MBKVAM1300A
MBKVAM1400A
MBKVAH3300A
MBKVAH3400A
MBKVAM3300A
MBKVAM3400A



¹ To confirm, note the part number of the panel (marked on the interior label). If it ends in an "N" or a "T" it is a "Revised P1" and is compatible with this kit. (For example: **P1E42MC250A** is an Original P1; **P1E42MC250AT** is a Revised P1)

² If the Main Breaker opening is too small for the filler provided, then the customer needs to order the retrofit kit **MBKVA5363JD**, which will allow the 3VA to be mounted and used with the smaller opening. (NOTE: With this retrofit kit, the deadfront must be removed to adjust the breaker.)

Figure 1



THIS KIT CONTAINS THE FOLLOWING ITEMS:

ITEM	DESCRIPTION	QTY	TORQUE
1	PHASE BARRIER	1	N/A
2	PHASE CONNECTOR	**	N/A
3	BREAKER ESCUTCHEON	1	N/A
4	MAIN LABEL	1	N/A
5	CONICAL WASHER	**, ****	N/A
6	NUTKEEPERS	**, ****	N/A
7	3/8"-16 X 1" SOCKET HEAD BOLT	**, ****	240 LB-IN
8	5/16"-18 X 3/4" HEX HEAD SEMS* ASSEMBLY SCREW	***	****
9	10-32 SOCKET HEAD THREAD FORMING SCREW	2	30 LB-IN
10	350 KCMIL NEUTRAL LUG ASSEMBLY	1	N/A
11	600 KCMIL LUG	1	N/A
12	ANTI-TURN PLATE	1	N/A
13	1/4"-20 X 1" CARRIAGE BOLT	1	N/A
14	1/4"-20 BELLEVILLE WASHER NUT	2	72 LB-IN
15	3VA HANDLE EXTENSION STORAGE POUCH	1	N/A
16	PHASE BARRIER ATTACHMENT SCREW	2	30 LB-IN

* SEMS ASSEMBLY SCREWS HAVE A CAPTIVE WASHER ON THE SCREW
 ** AØ AND CØ CONNECTORS ARE FOR 1Ø AND 3Ø KITS; USE BØ CONNECTOR FOR 3Ø ONLY
 *** QUANTITY (4) FOR 1Ø, QUANTITY (6) FOR 3Ø
 **** TORQUE: 72 lb-in for 1/8" CU; 108 lb-in for 3/16" AL
 ***** ITEMS 5, 6 AND 7 ARE INCLUDED IN THE CONNECTOR KIT PROVIDED WITH THE MAIN BREAKER KIT OR CAN BE ORDERED SEPARATELY WITH A STRAP KIT

Installation Instructions

The following instructions are for the installation of a Siemens 3VA53/63 main breaker kit in a 400 AMP Revised P1 Panelboard. The parts provided in this kit are for connection to a 1-phase 2 or 3-wire system or to a 3-phase 3 or 4-wire system. For all 1-phase systems, disregard the B-phase connector instructions. The breaker is NOT included with this kit and must be purchased separately. Be sure to choose the appropriate breaker for the voltage, system & feed location in use. For systems with no neutrals, disregard the neutral connection.

NOTE: Other main breaker kits may include this kit AND a breaker with main breaker support(s) attached. White text on black background on these pages denote instructions specific to these particular kits (see list on front cover). (For clarification, DANGER warning below applies to all.)

Breaker types for mains include the following for Type 3VA53 and Type 3VA63:

Top & Bottom-fed Mains are:

3VA53: MJAS, HJAS, CJAS

3VA63: MJAE, HJAE, CJAE



3VA53/63 breakers share line side lug kits. Many others are available. Typical lugs used shown below, and are selectable in COMPAS.

ALUMINUM body lugs for AL/CU cables:
3VA9473-0JJ23 (2) 2/0-600kcmil ports (DEFAULT)
3VA9373-0JB13 (1) #1-600kcmil port

COPPER body lugs for CU cables ONLY:
3VA9473-0JE23 (2) 2/0-600kcmil ports
3VA9373-0JD13 (1) #1-600kcmil port

(2-port lugs in P1 panels restricted to 500 kcmil MAX cables.)

1. Lock off all power supplying this equipment before working on it.
2. Remove the deadfront.
3. To install this kit for main breaker use, remove the main lugs (if installed).

TOP FEED: Also remove the main breaker support already installed onto rails. (Save hardware for mounting of pre-installed support.)

4. Check the location of the breaker mounting bracket and move it (if needed) to match the dimension and feed orientation shown in Figure 2 on page 4. Also refer to main breaker instructions for access to mounting holes; breaker covers may need to be removed for access. Breaker kits include **3VA9373-0JJ23 connectors (may also be purchased separately). Install lugs on the correct end of the breaker by following the Installation Instructions included with connector kit.**

TOP FEED: Install lugs at the ON end of the breaker. The breaker support bracket is pre-installed on the breaker ON end. Attach this bracket to the base rails using the hardware removed in Step 3. Skip to Step 5.

BOTTOM FEED: Install lugs at the OFF end of the breaker. Leave the pre-installed breaker support bracket attached to the breaker but note it does not need to be secured to the base rails. Instead, attach the breaker to the existing mounted support bracket (as shown in Fig. 2A on pg. 4) by following these directions:

 5. Install the Nutkeepers (Item 6) into the opposite end of the breaker by sliding each in until it "clicks".
 6. To attach the Phase Barrier (Item 1), slide it under the exposed phase bus and slide the fins against the bus barrier. Then fasten it to the rails with the two Phase Barrier attachment Screws (Item 16).
 7. Fasten the breaker to the support in the proper orientation with the two #10-32 screws (Item 9) into the mating holes in the breaker support bracket.
 8. Position one of the outer Phase Connectors (item 2) so that the single-hole end rests on the breaker pad and the double-hole end rests on the panel section or main bus. Note that the outer connectors are mirror images and are NOT interchangeable. Attach the connector to the breaker pad using 3/8"-16 Bolt (Item 7) and a Conical Washer (Item 5). Do not tighten at this time. Repeat the process to attach the other outer connector to the breaker.
9. 3-Phase panels require a B-phase connection. Position the B-phase connector so that the single-hole end rests on the breaker pad and the double-hole end rests on the panel section or main bus. Attach the connector to the breaker pad using the same hardware as the A and C-phases. Do NOT tighten at this time.
10. Fasten all breaker connectors to the panel section or main bus using two 5/16"-18 SEMS Screws (Item 8) per joint.
11. On 1-phase 3-wire and 3-phase 4-wire systems, neutral lugs are required. For the 600 kcmil Lug (Item 11), insert the 1/4"-20 x 1" Carriage Bolt (Item 13) through the square hole on the neutral riser from below, then place the 600 kcmil neutral Lug and the Anti-turn Plate (Item 12) as shown. Finish with the 1/4"-20 Belleville Washer Nut (Item 14).
12. Position the 350 kcmil Neutral Lug Assembly (Item 10) under the neutral riser, allowing the stud to penetrate as shown. Fasten it to the riser with a 1/4"-20 Belleville Washer Nut (Item 14).
NOTE: If the panelboard is fed by two 250 kcmil or smaller cables, this lug assembly is used for the second incoming cable and one of the 1/0 terminations on the neutral strip is used for a grounding electrode conductor (if required for service equipment applications). If the panelboard uses a 600 kcmil cable for neutral and is being used as service equipment, the 350 kcmil lug is used for the grounding electrode conductor.
13. Torque all connections to the values specified on the Hardware Tightening Torque label affixed to the rear of the deadfront (or reference assembly instructions where appropriate).
14. Attach the main cables to the breaker and neutral terminal and torque connections to values specified on the device. If no values are listed on the device, refer to the Hardware Tightening Torque label affixed to the rear of the deadfront.
15. Remove the main lug blank filler from the deadfront main opening (if present). Refer again to Figure 3 on page 4 to determine the correct orientation of the deadfront main Breaker Escutcheon (Item 3) for the panel's feed location. Insert the Breaker Escutcheon into the front of the deadfront.
16. For main breaker applications, apply the "MAIN" Label (Item 4) to the deadfront cover as shown.
17. For ease of access, an (optional) vinyl pouch (Item 15) has been provided to house the breaker handle extension. Remove the adhesive backing from the pouch and apply it to the deadfront in a convenient location. Ensure the pouch opening is in the up direction. Refer to Figure 3.
18. **Before energizing the panel, ensure that all connections have been properly torqued, that all circuit breaker terminal covers are secured, that the deadfront is installed and that all fillers are in place.**