SIEMENS

Powers™ Controls

CP 567 Control Cabinets

Description

CP 567 Control Cabinets are designed to conveniently group control system components (Figure 1). Control components can be mounted on the door or mounted within the cabinet enclosure using the perforated mounting plate. Cabinets are available in four Sizes: 1, 2, 3 and 4. See Table 1 for product numbers and dimensions.

- The cabinet enclosure, door, and perforated mounting plate for Sizes 1, 3 and 4 may be ordered separately.
- The Size 1 cabinet enclosure is available in a flush mount version.
- Size 3 and 4 cabinets are available in 6-inch depth (for electronic installations) or 9-inch depth (for pneumatic installations).
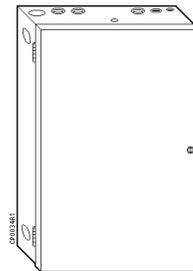
Figure 1. CP 567 Control Cabinet.

Table 1. Product Numbers.

Description			Product Numbers	Dimensions Inches (mm) H × W × D
	Size	**Installation**		
Cabinet Assembly	1	Pneumatic	567-351	19-1/2 (495) × 16-3/8 (416) × 5-3/4 (146)
	2	Electronic	567-454	20 (508) × 20 (508) × 6 (152)
	3	Pneumatic	567-352	24-5/16 (617) × 24-3/8 (619) × 9-3/8 (238)
	3	Electronic	567-452	24-5/16 (617) × 24-3/8 (619) × 6 (152)
	4	Pneumatic	567-353	36-1/2 (927) × 24-3/8 (619) × 9-3/8 (238)
	4	Electronic	567-453	36-1/2 (927) × 24-3/8 (619) × 6 (152)
Cabinet Door	1	Pneumatic	567-361	See Figure 4
	3	Either	567-362	
	4	Either	567-363	
Cabinet Enclosure	1	Pneumatic	567-371	See Figures 4 and 5
	3	Either	567-372	See Figures 4 and 5
	4	Either	567-373	
Flush Mount Cabinet	1	Pneumatic	567-391	See Figure 7
Flush Mount Door Kit	1	Pneumatic	567-390	See Figure 8
Perforated Mounting Plate	1	Pneumatic	567-381	–
	3	Either	567-382	
	4	Either	567-383	

Application

CP 567 Control Cabinets provide a convenient central location for equipment mounting, termination of piping, adjustment, and calibration.

The door and mounting plate can be separated from the cabinet enclosure. The empty cabinet enclosure can be installed at the job to permit early rough-in of conduit.

Controls may be mounted to the door and mounting plate either at the job site or at the office and attached to the cabinet enclosure at your convenience. After reassembly, final connections are made.

Cabinets may be used with pneumatic systems employing either copper or polyethylene tubing for transmission lines, with wired electric/electronic systems, or with a combination of both.

Pneumatic tubing within the cabinet enclosure should be polyethylene for a flexible connection to hinged door components and for easy installation and arrangement.

Features

- Cabinets are symmetrical; therefore, they can be mounted with the door hinge on the left or right hand side.

- Door is removable.

- Attractive gray finish permits use in occupied areas.

- Removable perforated mounting plate permits mounting controls inside the cabinet without drilling holes.

- All cabinets can be wall or floor mounted.

- Support kits are available for floor mounting (medium and large cabinets only).

- Knockouts are provided for electrical or pneumatic piping.

- Cabinets are listed under UL 508 Industrial Control Panel Enclosures.

- CSA approved file LR84214.

- NEMA TYPE 1 style of enclosure.

- Height and width dimensions and cabinet color are the same for automation and pneumatic cabinets for a uniform look and mounting.

Specifications

Cabinet Sizes	See Table 1
Dimensions:	
Cabinet, Door, Subpanel	See Figures 4 through 8 and Tables 6 and 7
Supports	See Figure 6
Mounting:	
Wall	See Figure 4 and Table 6
Floor	See Figure 5
Flush (in wall)	See Figures 7 and 8 and Table 7

Specifications, Continued

Knockouts-Electrical Conduit Size:
    Size 1 and Flush Mount Cabinets

Top	(3) 1-1/4 or 1-1/2, (1) 3/4 or 1, (2) 1/2 or 3/4, (1) 7/16
Bottom	(3) 1-1/4 or 1-1/2, (1) 3/4 or 1, (2) 1/2 or 3/4, (1) 7/16
Right Side	(2) 2
Left Side	(2) 2

    Size 2, Size 3 and Size 4 Cabinets

Top	(1) 2, (3) 1-1/4 or 1-1/2, (1) 3/4 or 1, (1) 1/2 or 3/4, (1) 7/16
Bottom	(1) 2, (3) 1-1/4 or 1-1/2, (1) 3/4 or 1, (1) 1/2 or 3/4, (1) 7/16
Right Side	(2) 2
Left Side	(2) 2

Material (Steel):

Cabinet (Size 1, 2, 3 and Flush Mount)	16 gauge 0.0598 (1.5 mm)
Door (Size 1, 2, 3 and Flush Mount)	16 gauge 0.0598 (1.5 mm)
Cabinet (Size 4)	14 gauge 0.0747 (1.9 mm)
Door (Size 4)	14 gauge 0.0747 (1.9 mm)
Mounting Plate	16 gauge 0.0598 (1.5 mm)
Supports	14 gauge 0.0747 (1.9 mm)

Finish	Gray

Weight:

Size 1 Cabinet Assembly	20 lb (9 kg)
Size 2 Cabinet Assembly	28 lb (13 kg)
Size 3 Cabinet Assembly	39 lb (18 kg)
Size 4 Cabinet Assembly	72 lb (33 kg)
Flush Mount Enclosure	20 lb (9 kg)
Flush Mount Kit	8 lb (3.6 kg)
Support Legs	See Table 2

Accessories

Replacement Door Lock and Key Assembly	567-225
Floor Mount Support Kit (2 supports, hardware)	See Table 2

Touch-up Spray Paint, 16 oz Can

Gray	544-459
Blue	534-500
Cabinet Light	See I.D. Number 3296 in the Field Purchasing Guide

Table 2. Floor Mount Support Kit.

Cabinet Size to be Supported	Support Size		Order Number
	Height	**Weight**	
Size 3	49 inches (1245 mm)	40 lb (18 kg)	567-335
Size 4	37 inches (940 mm)	30 lb (14 kg)	567-334

NOTE: The six-inch deep cabinets do not have floor mount support kits.

Door Layout

NOTE: Controls cannot be mounted to the door of the flush mount cabinet.

Perform the following steps when preparing to lay out a cabinet door:

1. Determine controls to be mounted on the door.

2. Determine if the controls mounted in the door will clear the mounting plate when tubing or wires are attached. See Figure 3 and Table 5 for dimensions. Table 4 provides the approximate space requirements for controls frequently mounted in the door.

3. Determine if the total weight of the controls, (see Table 4) to be mounted on the door are within the maximum weight limitations shown in Table 3. If weight limitations are exceeded, the door might sag and prevent proper closure.

Table 3. Weight Limitations.

Cabinet Size	Maximum Weight of Controls That Can Be Mounted on Door lb (Kg)	Maximum Number of Selector Switches That Can Be Mounted on Door
Size 1	21 (9.5)	14
Size 2	24 (11)	16
Size 3	30 (14)	20
Size 4	93 (42)	62

Cabinet Installation (Non-flush mount)

1. There are four keyhole mounting holes in the back surface of the cabinet. Their sizes and locations are shown in Figure 5. Use wall anchors that are suitable to support the weight of the cabinet and its contents.

2. If more than one cabinet is to be mounted in the same location, allow at least 2 inches (51 mm) between cabinets to provide space for doors to open properly.

3. The cabinets are symmetrical before cutouts have been made, so the door can be mounted with the hinge on the left or right side.

4. Determine the size of the knockouts required for the number and size of pneumatic tubes and wires to be brought into the cabinet.

5. If more than one knockout is required, divide the tubes and wires for easy connection to the controls.

6. If a cabinet light is required, order per instructions under accessories. The recommended mini work light has a 2-inch diameter by 4-inchlong (51 mm × 102 mm) bulb holder on a 15-inch (381 mm) long flexible metal arm.

   a. Remove the plug and mounting bracket from the light.

   b. Punch out the 7/16-inch (11 mm) diameter knockout in the center of the top of the cabinet.

   c. Attach the light using the nut and washer provided with it.

   d. Wire the light cord in compliance with local electrical codes.

Controls Installation

NOTE: It might be easier to remove the door from the cabinet and then mount the controls onto the door or the mounting plate.

1. The space required for the controls mounted in the door or the mounting plate is shown in Table 4. Space available between the door and the mounting plate is shown in Figure 4, Table 5, and Table 6.

2. Arrange the controls on the mounting plate to avoid interference with the controls on the door. Arrange the controls in logical groupings for easy access to fitting and wiring terminals. Table 4 shows the approximate space required for controls frequently mounted on the mounting plate in the cabinet.

3. In some cases it might be easier to remove the mounting plate to mount the controls.

4. Mount the controls to the perforated mounting plate with standard sheet metal screws.

5. When routing tubing or wires from the controls mounted on the door, allow sufficient slack to prevent excessive stress.

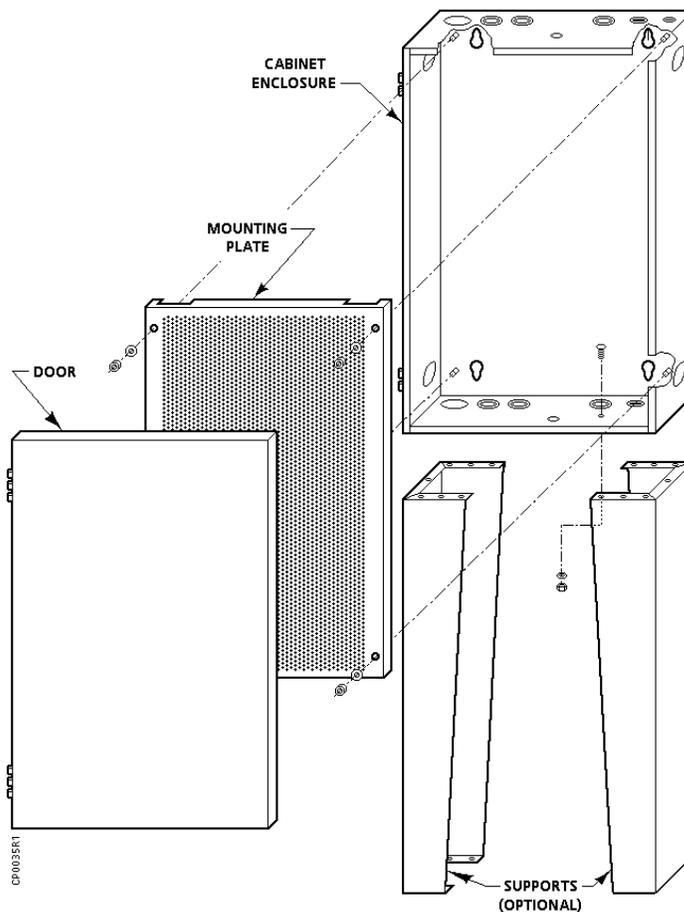6. Bundle and tie tubing and wires separately.

Figure 2. Wall Mount Cabinet Components.

Cabinet Installation (Flush Mount)

1. Mount the cabinet in a wall at least 6 inches (15.2 cm) deep. There are four keyhole mounting holes in the back surface of the cabinet. Their sizes and locations are shown in Figure 5. Use wall anchors that are suitable to support the weight of the cabinet and its contents.

2. Determine the size of the knockouts required for the number and size of pneumatic tubes and wires to be brought into the cabinet.

3. The cabinets are symmetrical before cutouts have been made, so the door can be mounted with the hinge on the left or right side.

4. If more than one knockout is required, divide the tubes and wires for easy connection to the controls.

5. If a cabinet light is required, order per instructions under accessories. The recommended mini work light has a 2-inch diameter by 4-inch long (51 mm × 102 mm) bulb holder on a 15-inch (381 mm) long flexible metal arm.

   a. Remove the plug and mounting bracket from the light.

   b. Punch out the 7/16-inch (11 mm) diameter knockout in the center of the top of the cabinet.

   c. Attach the light using the nut and washer provided with it.

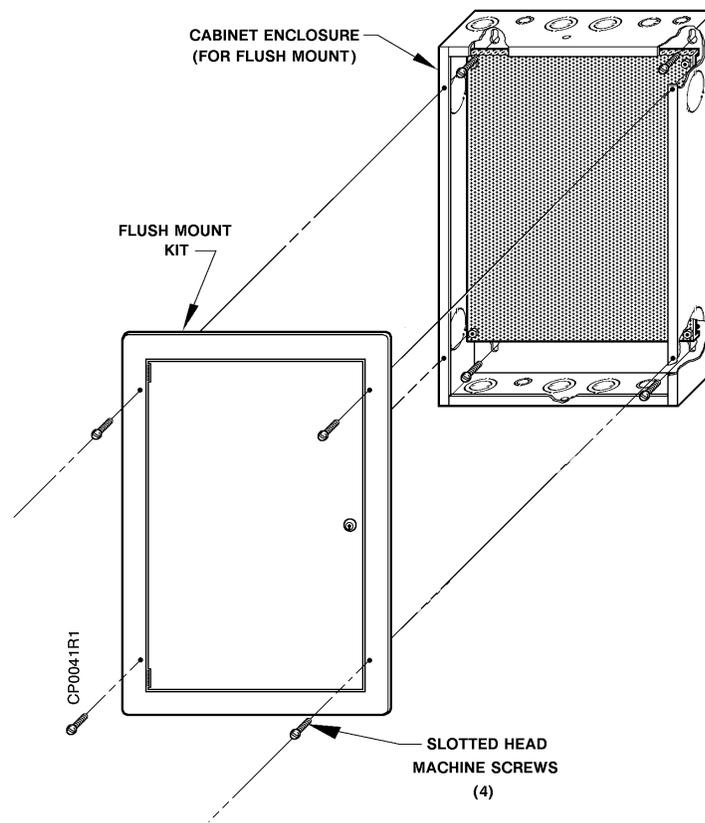   d. Wire the light cord in compliance with local electrical codes.

Figure 3. Flush Mount Cabinet Components.

Table 4. Approximate Panel Space Requirements (Includes Fitting and Clearances).

Equipment	Door Mounting Depth Inches (mm)	Equipment Weight Pounds (kg) (See Note 3)	Mounting Plate Depth Inches (mm)	Inside Area Required Inches^2 (cm^2)
6 Input Sig. Selector	–	–	4 (102)	12 (77)
656 Pilot Valve	–	–	3 (76)	100 (645)
ARG 61.00 Wall Mount Case	–	–	8.52 (216.4)	13.10 (84.5)
ARG 61.01 Panel Mount Case	7.52 (191)	1.65 (0.750)	–	11.28 (72.8)
D.P. Switch	–	–	3 (76)	45 (290)
Diff. Press. Reg.	–	–	3 (76)	35 (226) (See *Note 1*)
E.P.	–	–	1-1/4 (32)	30 (194)
Electric Relay	–	–	4 (102)	30 (194)
Enthalpy Comparator	–	–	3-1/2 (89)	30 (194)
FZA 21 Remote Setting Unit	0.87 (22)	0.11 (0.05)	–	1.98 (12.76)
FZA 61 Remote Setting Unit	1.10 (28)	0.15 (0.07)	–	3.00 (19.36)
Gauges 1-1/2"	2 (51)	0.2 (0.09)	1-1/2 (38)	4 (26) (See *Note 2*)
Gauges 2-1/2"	2-1/2 (64)	0.5 (0.22)	–	–
Gauges 3-1/2"	2-1/2 (64)	0.6 (0.27)	–	–
Min (PRV)	3 (76)	0.5 (0.22)	2 (51)	10 (65)
MP, BR, Analog Relays	4-1/2 (114)	2 (0.91)	2-1/2 or 5 (64 or 127)	42 (271)
P.E. (Single)	–	–	3-1/2 (89)	28 (181)
Positioning/Selector Switch	3 (76)	2 (0.91)	5 (127)	10 (65) (See *Note 2*)
PRV (Powers)	–	–	5-1/2 (140)	100 (645)
RC 195	–	–	3-1/2 (89)	6 0(387)
Static Pressure Reg.	–	–	4 (102)	30 (194)
Switching Relay	–	–	2-1/2 (64)	65 (419)

NOTES: 1. Normally not mounted inside of the cabinet.
2. If mounted inside of the cabinet.
3. Weights are given for door mounted devices only.

Table 5. Usability.

Product Numbers	Cabinet Enclosure	Inside Depth Door to Mounting Plate Inches (mm)	Maximum Usable Area Inches^2 (cm^2)	Maximum Number of RC-195 Per Cabinet
567-351	Size 1	5 (127)	172 (1109)	3
567-391	Flush Mount	4-5/8 (117)	172 (1109)	3
567-454	Size 2	5-1/2 (140)	227 (1465)	4
567-352 567-452	Size 3	8-1/2 (216) 5-1/2 (140)	380 (2451)	6
567-353 567-453	Size 4	8-1/2 (216) 5-1/2 (140)	615 (3967)	10

Dimensions

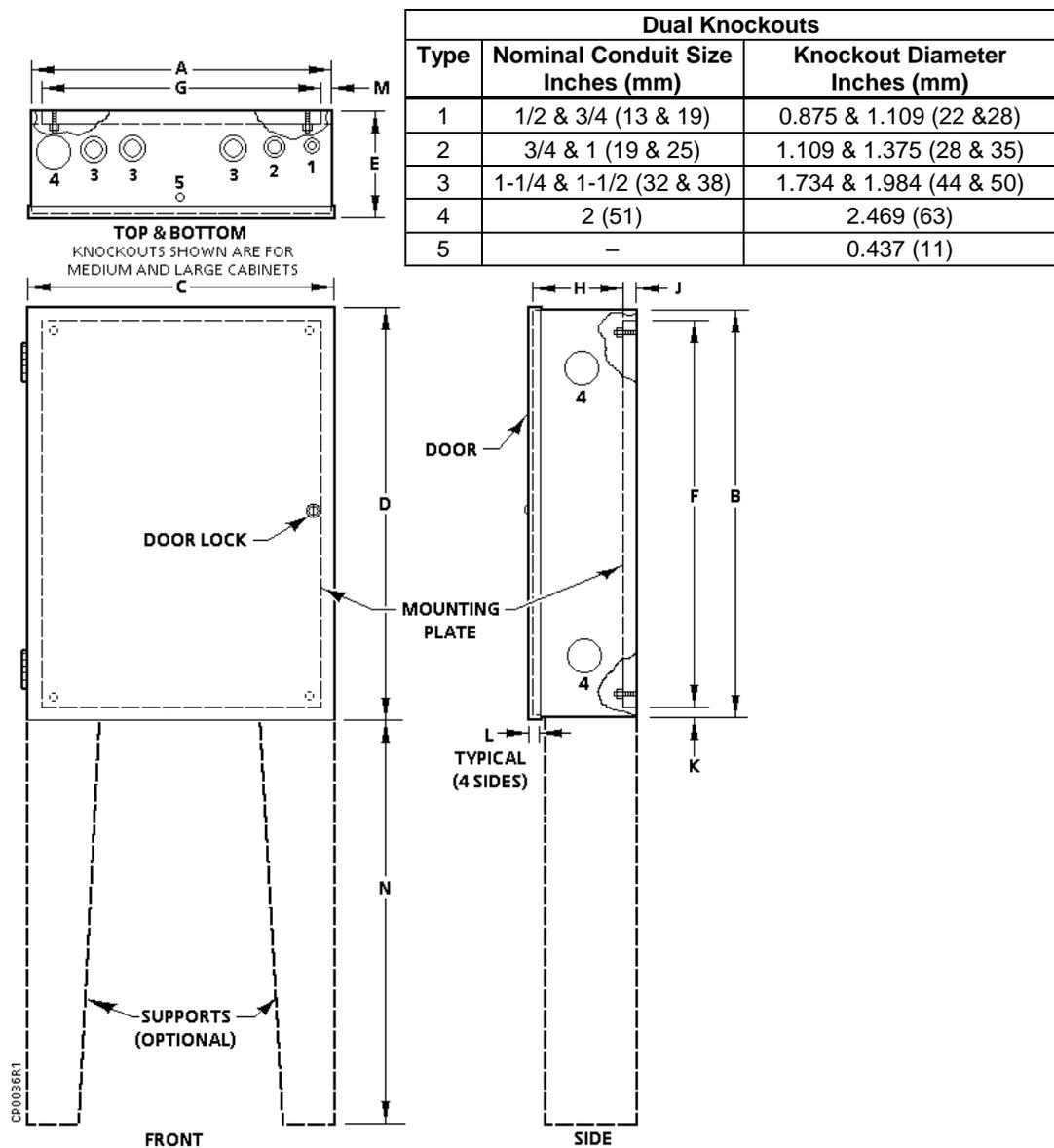| Dual Knockouts		
Type	Nominal Conduit Size Inches (mm)	Knockout Diameter Inches (mm)
1	1/2 & 3/4 (13 & 19)	0.875 & 1.109 (22 &28)
2	3/4 & 1 (19 & 25)	1.109 & 1.375 (28 & 35)
3	1-1/4 & 1-1/2 (32 & 38)	1.734 & 1.984 (44 & 50)
4	2 (51)	2.469 (63)
5	–	0.437 (11)

Figure 4. Cabinet and Support Dimensions (See Table 5 and Figure 9).
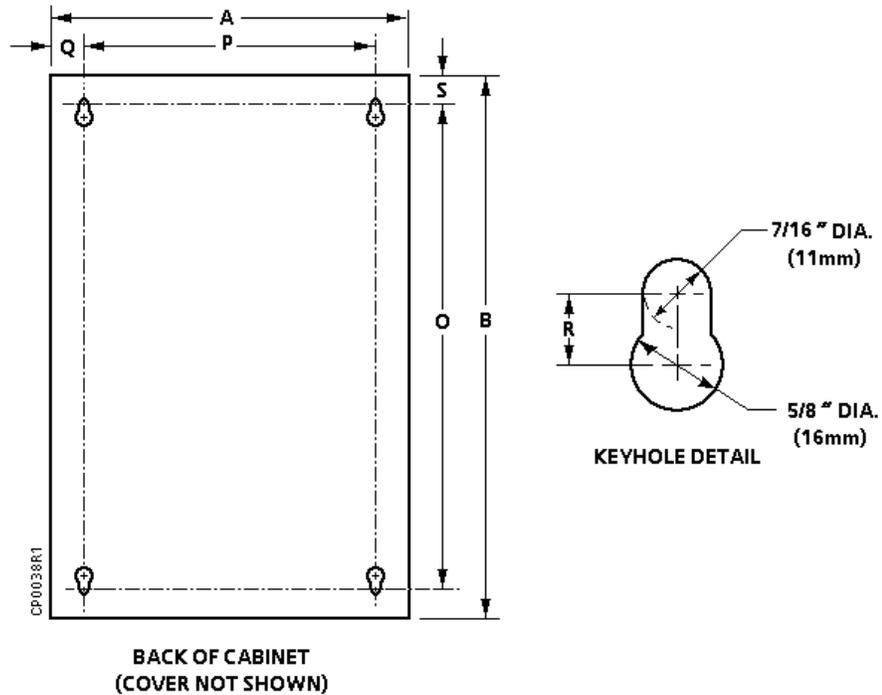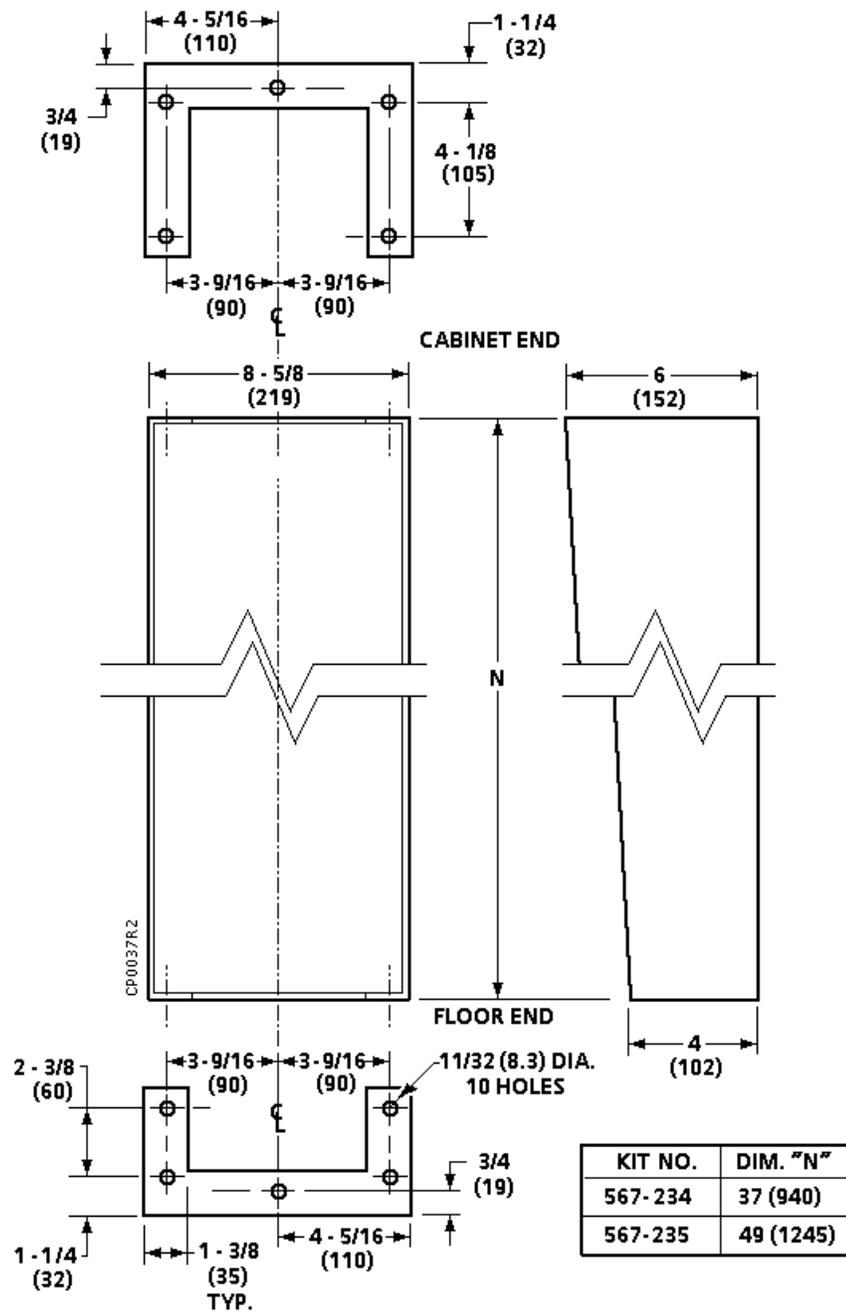
**Dimensions,
Continued**

Figure 5. Rear View of Cabinet (See Table 6).

Table 6. Cabinet Assembly Dimensions (See Figures 4, 5, and 6).

Cabinet Assembly		Dimensions Inches (mm)									
Product Number	Size	A	B	C	D	E	F	G	H	I	J
567-351	Size 1	16 (406)	19 (483)	16-3/8 (416)	19-1/2 (495)	5-3/4 (146)	14-1/2 (368)	14-3/4 (375)	5 (127)	5-11/16 (145)	1/2 (13)
567-454	Size 2	20 (508)	20 (508)	20-5/16 (516)	20-5/16 (516)	6 (152)	19 (483)	15.25 (387)	5-3/8 (137)	5-7/8 (149)	1/2 (13)
567-352 [567-452]	Size 3	24 (610)	24 (610)	24-3/8 (619)	24-5/16 (617)	9-3/8(238) [6 (152)]	19-1/4 (489)	23 (584)	8-1/2 (216)	9-1/4(235) [5-7/8 (149)]	1/2 (13)
567-353 [567-453]	Size 4	24 (610)	36 (914)	24-3/8 (619)	36-1/2 (927)	9-3/8(238) [6 (152)]	31-1/2 (800)	22 (559)	8-1/2 (216)	9-1/4(235) [5-7/8 (149)]	1/2 (13)
Product Number	Size	K	L	M	N	O	P	Q	R	S	–
567-351	Size 1	2-1/4 (57)	3/4 (19)	5/8 (16)	*	16-1/2 (419)	13-1/2 (343)	1-1/4 (32)	1/2 (13)	1-1/4 (32)	–
567-454	Size 2	2-1/4 (57)	3/4 (19)	1/2 (13)	-	17.5 (445)	12 (305)	4 (102)	1/2 (13)	1-1/4 (32)	–
567-352 [567-452]	Size 3	2-1/4 (57)	3/4 (19)	1/2 (13)	49 (1245)	21 (533)	16 (406)	4 (102)	1/2 (13)	1-1/2 (38)	–
567-353 [567-453]	Size 4	2-1/4 (57)	3/4 (19)	1 (25)	37 (940)	33-1/2 (851)	16-314 (425)	3-5/8 (92)	1/2 (13)	1-1/4 (32)	–

* See Figure 6 for dimensions of "N"

**Dimensions,
Continued**

KIT NO.	DIM. "N"
567-234	37 (940)
567-235	49 (1245)

**Figure 6. Floor Mount Support Legs Kit.
Dimensions in Inches (mm).**

Dimensions, Continued
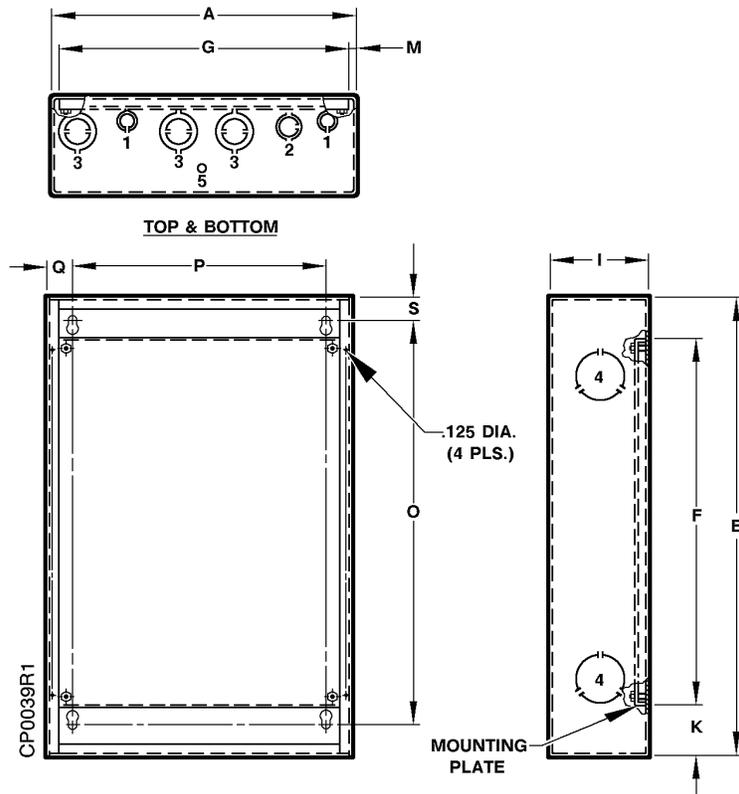
Figure 7. Flush Mount Cabinet Dimensions (See Table 7).

Table 7. Flush Mount Cabinet and Door Dimensions.

Dimensions in Inches (mm)							
A*	B*	F	G	I	K	M	O
16-1/8 (410)	19-1/2 (495)	13-1/2 (343)	14-3/4 (375)	5-1/8 (130)	1-1/2 (38)	1-11/16 (43)	16-1/2 (419)
P	Q	S	T*	U	V	W*	X
13-1/2 (343)	1-1/4 (32)	1-1/4 (32)	18 (457)	15-7/16 (392)	14-3/4 (375)	21-3/8 (543)	18-1/8 (460)

* Cutout dimensions; make cutout at least the size of dimensions A and B
(cabinet size) but no larger than T & W (door size).
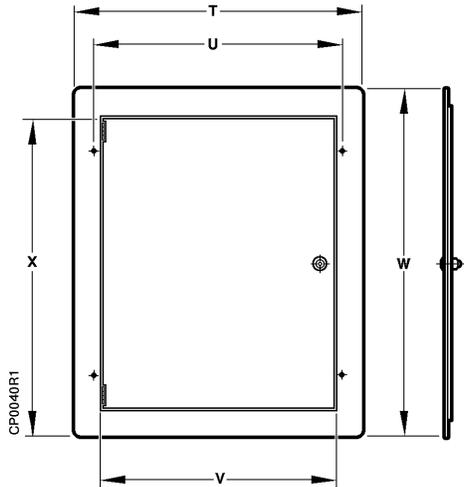
**Figure 8. Flush Mount Door Dimensions
(See Table 7).**

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