



SIEMENS

Enclosure Types

Enclosures for the 3VA Circuit Breaker family

3VA Circuit Breaker enclosures for the 125A, 250A, 400A, 600A, 800A and 1000A breakers provide a significant

enhancement of the Siemens product offering. The fundamental objective of this family of enclosures is to reduce

installation cost of the breaker, as well as reducing the space required for low amperage breaker enclosures.

These enclosures support the 3VA 125A, 250A, 400A, 600A, 800A and 1000A

Replacement Neutral Kits:

Enclosure Type	125A Catalog No.	150A/250A Catalog No.	400A/600A Catalog No.	800A/1000A Catalog No.
Type 1 Surface	3VAE125N1S	3VAE250N1S	3VAE6001S	3VAE8001S
Type 1 Flush	3VAE125N1F	3VAE250N1F	3VAE6001F	3VAE8001F
Type 3R	3VAE125N3R	3VAE250N3R	3VAE6003R	3VAE8003R
Type 12	3VAE125N12	3VAE250N12	3VAE60012	3VAE80012
Type 4X	3VAE125N4X	3VAE250N4X	3VAE6004X	3VAE8004X
Type 4X 316 Stainless	3VAE125N4X316	3VAE250N4X316	3VAE6004X316	3VAE8004X316

Breaker Size	Rating	Neutral Catalog No.	Wire Range
125A		N125X	(1) #14 - 3/0 Cu/Al Grd. (1) #14 - #4 Cu/Al
150A, 250A		N250X	(1) #6 - 350 kcmil CU/AL (1) Grd. #14 - 1/0 CU/AL
	200%	N2250X	(2) #6 - 350 kcmil CU/AL (1) Grd. #6 - 2/0 CU/AL
400A, 600A, 800A, 1000A		HN656ACB	(2) 1/0 AWG - 600 kcmil CU/AL (2) Grd. #6 - 300 kcmil CU/AL
	200%	HN678ACB	(4) 1/0 AWG - 600 kcmil CU/AL (2) Grd. #6 - 300 kcmil CU/AL

usa.siemens.com/circuitbreakers

Enclosures

Type 1S, 1F

A general indoor, sheet-steel enclosure for use in normal atmospheres. Listed for use as service entrance equipment.

Type 3R

An outdoor, sheet-steel enclosure providing protection against driving rain, sleet or snow. Listed for use as service entrance equipment.

Type 12

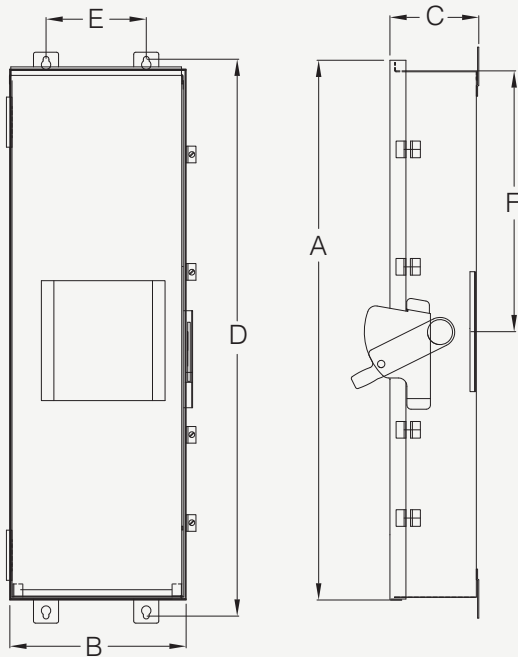
A special-industry, sheet-steel enclosure for use in atmospheres containing particles of lint, dust, dirt, sawdust and other foreign matter. Listed for use as service entrance equipment.

Type 4, 4X

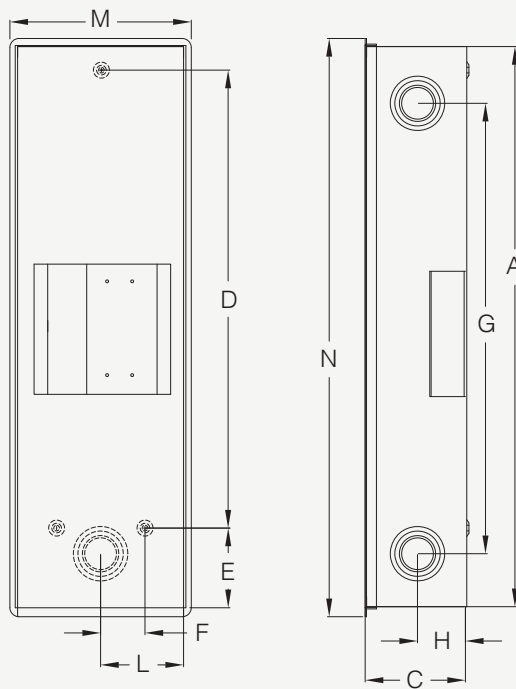
Stainless steel indoor or outdoor enclosure designed for use in areas where serious corrosion problems exist. They provide a degree of protection against windblown dust, rain, splashing water and hose-directed water. Available in both 304 Stainless Steel and 316 Stainless Steel. Meets Type 3, 4, 4X, 12 and 13 requirements and UL 508 Type 4 and 4X requirements. Listed for use as service entrance equipment.

Dimensions for 125A and 150A/250A Enclosures

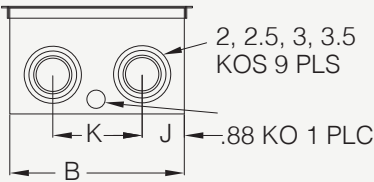
Type 4X & 4X 316



Type 1S, 1F, 3R & 12



Breaker Frame	NEMA Type	A	B	C	D	E	F	G	H	J	K	L	M	N
3VA 125A	Type 1S, 1F	18.5	6.9	4.5	15.5	1.5	2.3	—	1.8	1.9	3	3.4	7.3	19.6
	Type 3R	18.5	6.9	4.5	15.5	1.5	2.3	—	1.8	1.9	3	3.4	7.3	19.4
	Type 12	18.5	6.9	4.5	15.5	1.5	2.3	—	1.8	—	—	—	7.3	19.4
	Type 4X, 4X316	19.4	7.7	5.7	19.5	5	9.3	—	—	—	—	—	—	—
3VA 150A and 250A	Type 1S, 1F, 12, 3R	31.2	9.6	5.7	25.3	4.2	2.4	24.8	2.8	2.4	4.8	4.8	9.6	32.3
	Type 4X, 4X316	32.2	10.2	5.8	32.9	6	18	—	—	—	—	—	—	—



Type 1S & 1F

Technical drawings of Type 1S and 1F electrical enclosures, showing dimensions and mounting details.

Front View (Top Left): Dimensions include 16.00 (width) and 40.00 (height). It shows 4X Ø.44 Mounting Holes.

Front View (Middle Left): Dimensions include 22.42 (width) and .61 (height). It shows the Type 1S Bottom View.

Front View (Bottom Left): Dimensions include 23.00 (width), 14.26 (hole spacing), 16.00 (hole spacing), 22.12 (total width), 3.51 (hole offset), 2.90 (hole offset), and 1.51 (hole offset). It shows the Type 1F Bottom View.

Side View (Top Right): Dimensions include 7.84 (width), 6.78 (width), 45.82 (height), and Ø .40 Lock Hole. It shows the Type 1F Side View.

Side View (Middle Right): Dimensions include 6.75 (width), 45.24 (height), and 44.93 (height). It shows the Type 1S Side View.

Knockout Code	Conduit Size
A (Tangential)	2.00, 2.50, 3.00, 3.50

Technical drawings of two electrical enclosure types, Type 12 and Type 3R, showing dimensions and mounting details.

Type 12 Front View:

- Overall width: 22.12
- Mounting hole spacing: 16.00
- Overall height: 40.00
- Mounting holes: 4X Ø .44

Type 3R Front View:

- Overall width: 22.42
- Mounting hole spacing: 16.00
- Mounting hole diameter: Ø .44
- Lock hole diameter: Ø .38
- Mounting hole offset: 14.26
- Mounting hole offset: 3.51
- Mounting hole offset: 2.90
- Mounting hole offset: 1.51

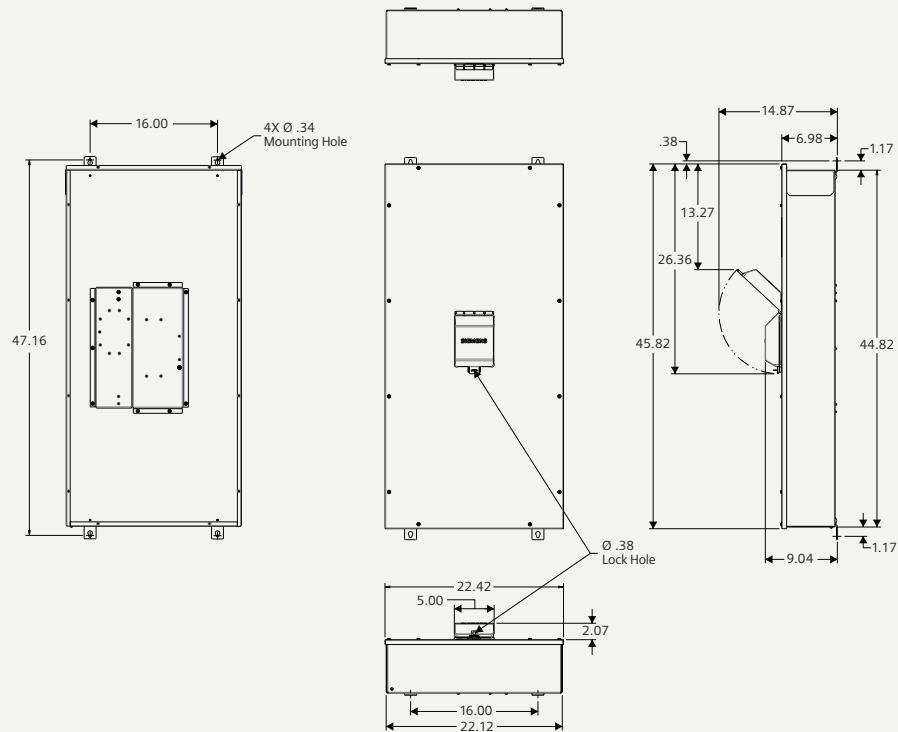
Type 3R Side View:

- Overall width: 14.85
- Mounting hole spacing: 6.95
- Mounting hole diameter: Ø .44
- Lock hole diameter: Ø .38
- Mounting hole offset: 13.27
- Mounting hole offset: 26.36
- Mounting hole offset: 45.82
- Mounting hole offset: 9.01
- Mounting hole offset: 2.41
- Mounting hole offset: 3.20
- Mounting hole offset: 44.87
- Mounting hole offset: 40.00

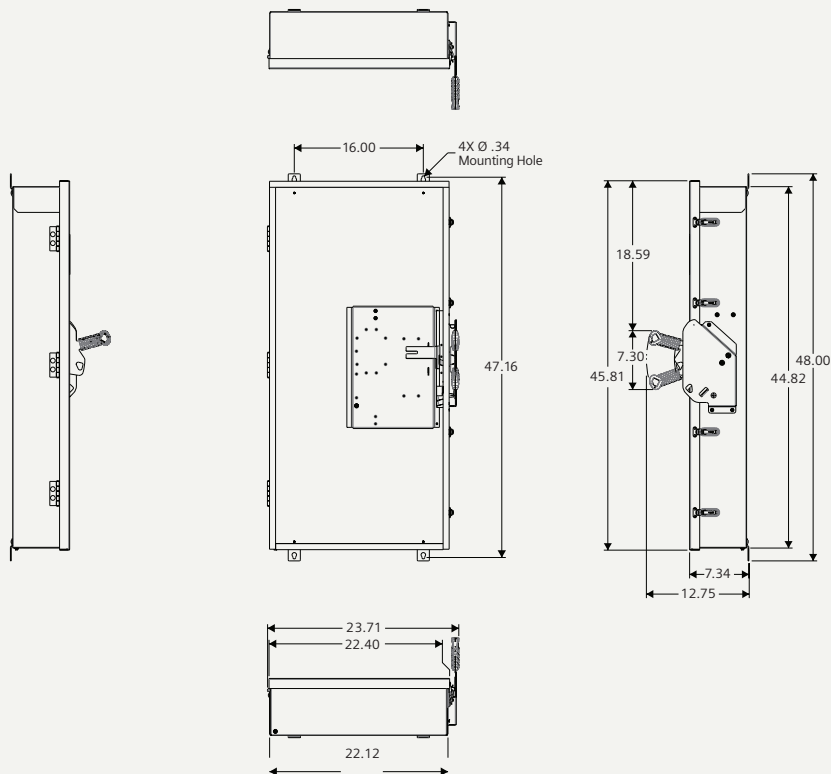
Knockout Code	Conduit Size
A (Tangential)	2.00, 2.50, 3.00, 3.50

Dimensions for 400A/600A Enclosures

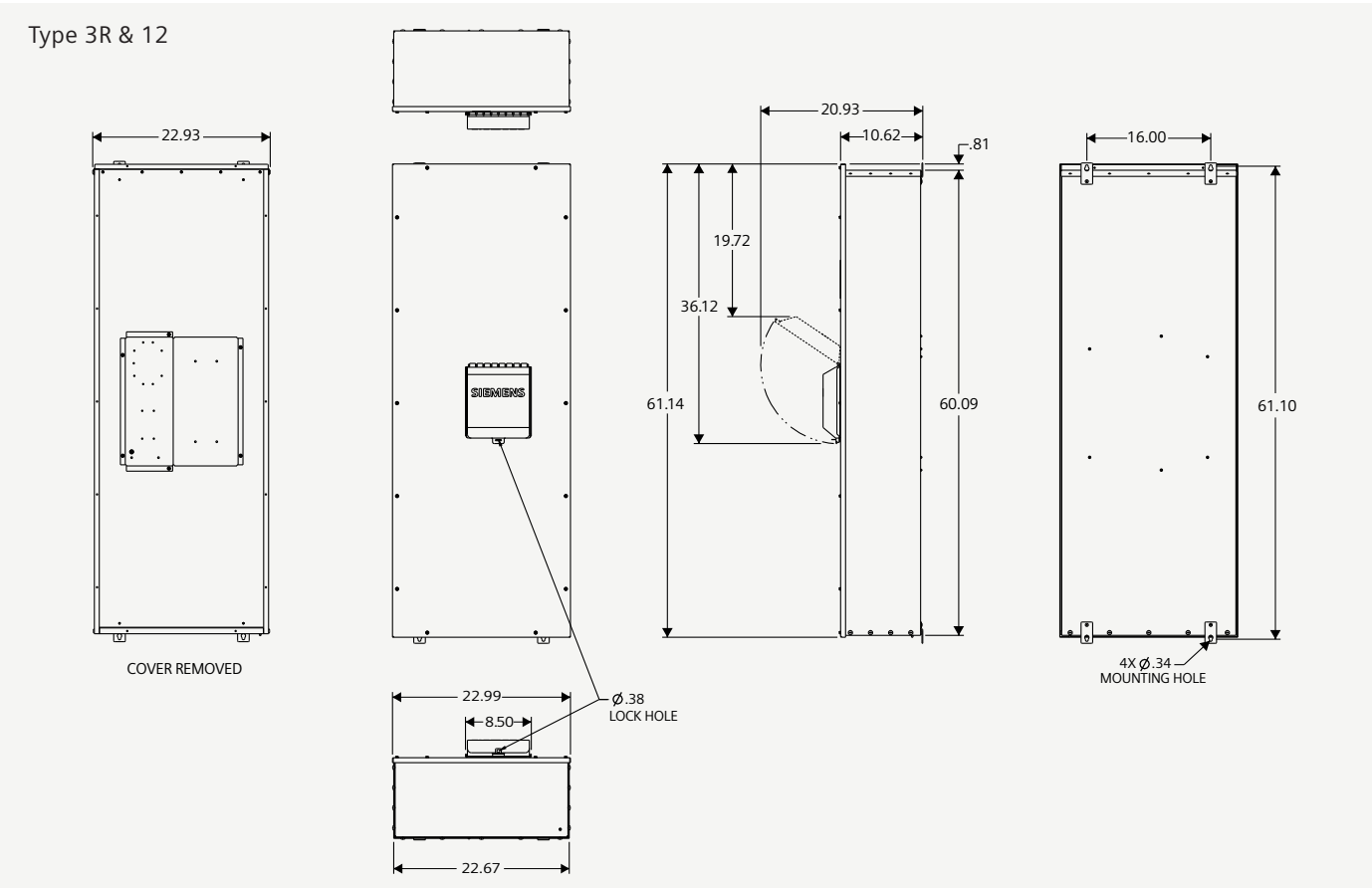
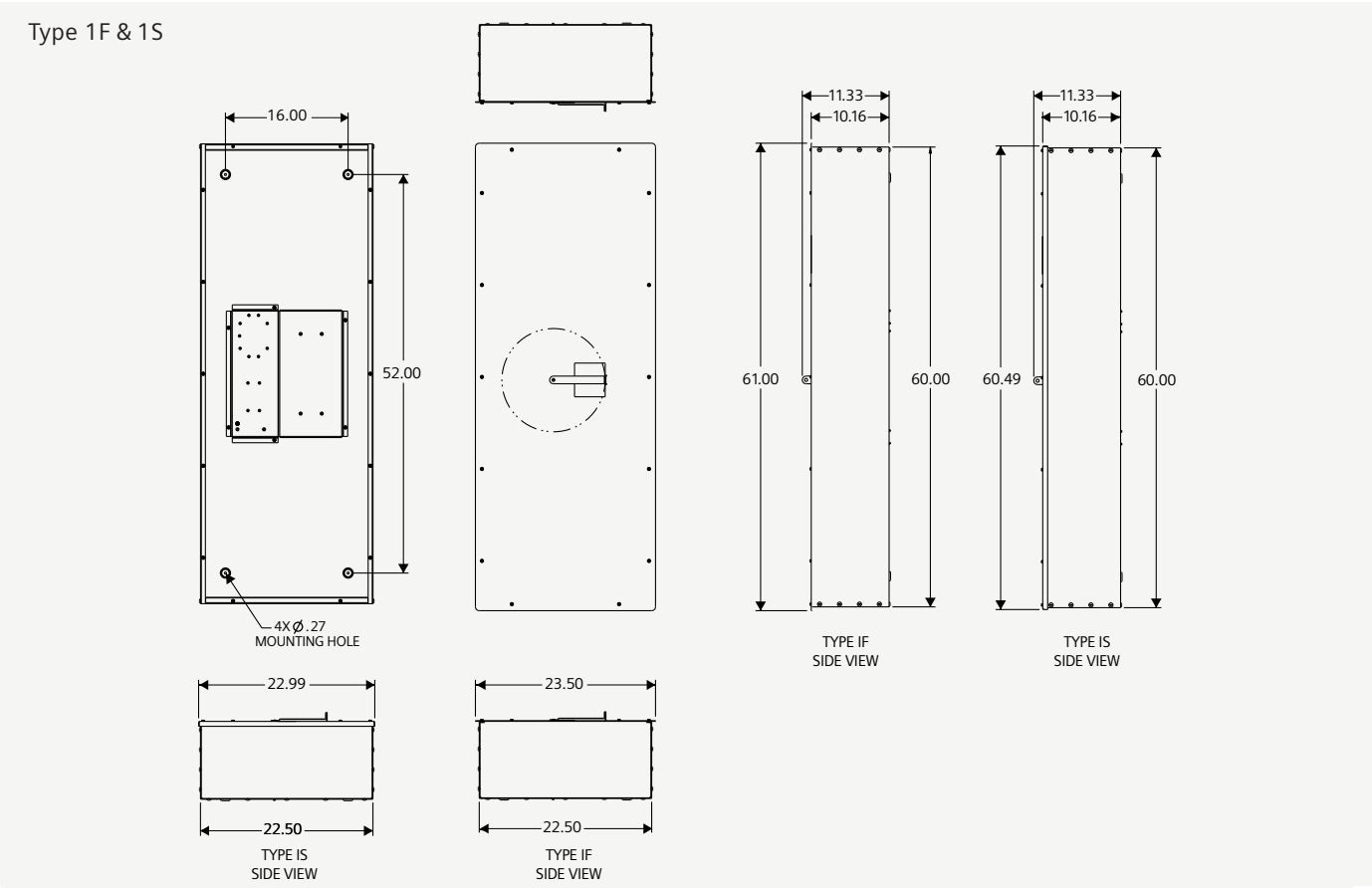
Type 12



Type 4X & 4X 316

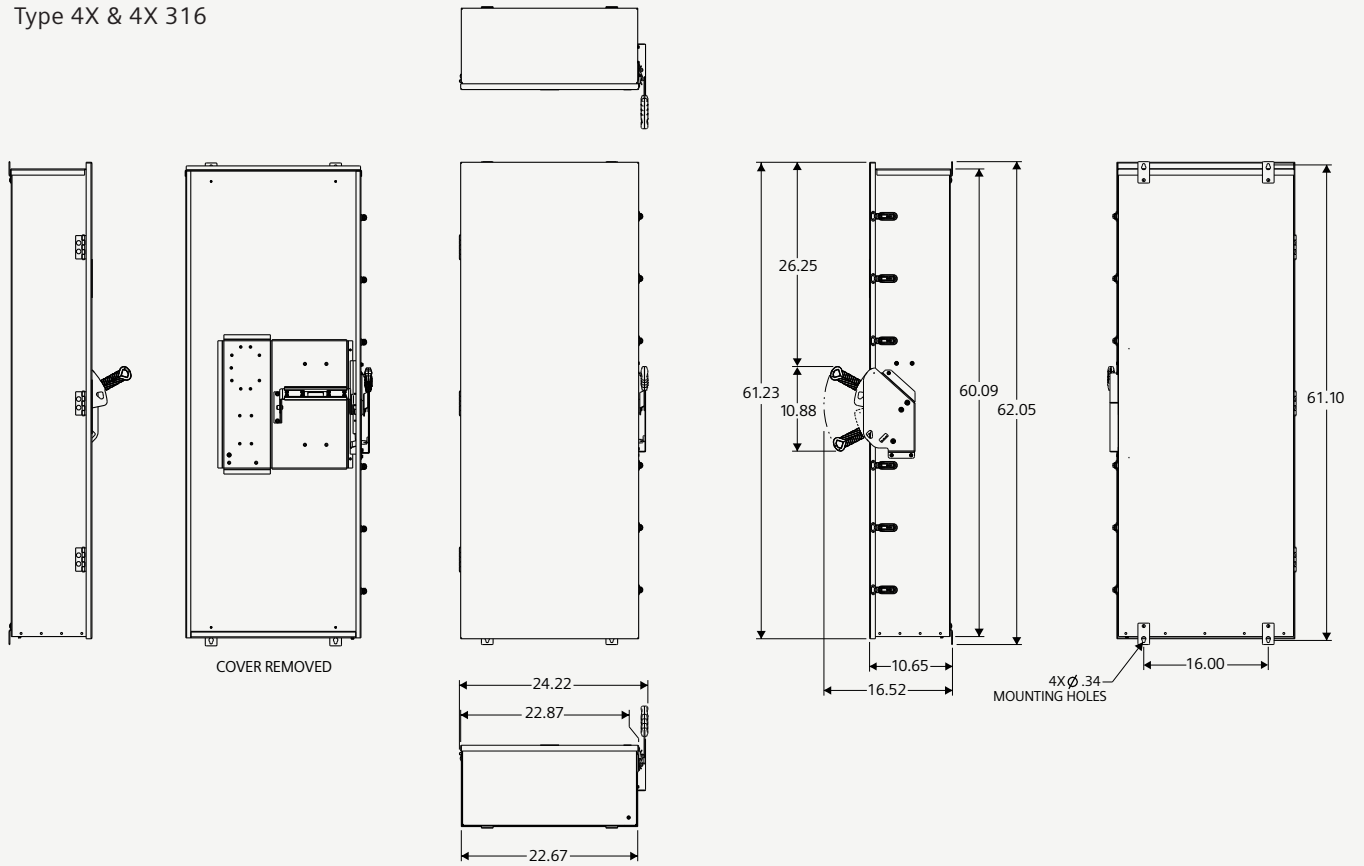


Dimensions for 800A/1000A Enclosures



Dimensions for 800A/1000A Enclosures

Type 4X & 4X 316



Published by
Siemens Industry, Inc. 2021.

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Order No.: CBDS-3VAEN-0421

Printed in U.S.A.

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