

## Enclosures Type 1 & 3R/12

### Description

#### Type 1

- General purpose indoor enclosure intended for use in normal environments to provide a degree of protection against contact with enclosed equipment.
- Sheet steel, surface mount.
- Breaker is front-operable and can be padlocked via front hasp.
- Available through 2500A, 600VAC
- UL Listed for use as service entrance equipment (SUSE), per UL file E116374.

#### Type 3R/12

- Type 3R is intended for outdoor use providing protection against rain, sleet or snow.
- Type 12 is for use in indoor atmospheres to provide a degree of protection against circulating dust, lint, sawdust, falling dirt and dripping non-corrosive liquids.
- Surface-mounted, sheet steel enclosure.
- Breaker can be operated via **separately ordered** handle mechanism; door is interlocked with mechanism.
- Available through 2500A, 600VAC.
- UL Listed for use as service entrance equipment (SUSE), per UL file E116374.



#### Type 7/9

- Cast from copper-free aluminum (max. 0.025 copper content)
- Stainless steel shotblasted or sandblasted natural finish
- Standard conduit openings in top and bottom
- Breaker is operated from front handle and can be padlocked
- NEC Class I Groups D, Div. 1 & 2
- NEC Class II Groups E, F & G, Div 1 & 2
- NEC Class III
- External machined flange joint design
- Integral cast mounting feet
- Machined flange for ease of hinge installation
- Ground lug
- Cast mounting pan bosses
- All enclosures suitable for drilling & tapping
- UL panel listed per UL File # E183868

# Enclosures Type 1 & 3R/12



S3E-1



S4E-3R12 ③

## Enclosures (Price does not include circuit breaker; order as a separate item.) ④

NEMA designation	Breaker type	Enclosure maximum rating		Approximate dimensions① H x W x D (inches)	Catalog number	List price	
		AL cables	CU cables				
Type 1	S3	150A	225A	22 x 12 x 4.5	S3E-1	235	
	S4	225A	250A	30 x 17.5 x 4.5	S4E-1	305	
	S5	400A	400A	30 x 17.5 x 4.5	S5E-1	305	
	S6	800A	800A	44 x 22 x 6	S6E-1	685	
	S7	1000A	1200A	44 x 22 x 6	S7E-1	685	
	S8	2500A	2500A	88 x 36 x 24	S8ES250-1	5285	
	Type 3R/12②	S1	100A	100A	14 x 10 x 8.8	S1E-3R12	305
		S2 ②	125A	125A	16 x 11 x 8	S2E-3R12	305
S3		150A	225A	22 x 12 x 9	S3E-3R12	395	
S4		225A	250A	30 x 17.5 x 9	S4E-3R12	575	
S5		400A	400A	30 x 17.5 x 9	S5E-3R12	575	
S6		800A	800A	44 x 22 x 11	S6E-3R12	905	
S7		1000A	1200A	44 x 22 x 11	S7E-3R12	905	
S8		2500A	2500A	88 x 36 x 24	S8ES250-3R12	5285	

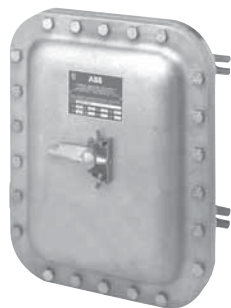
## Neutral kits

Breaker type	Neutral cable capacity and wire range	Neutral kit catalog number	List price
S3	Neutral #6-250 kcmil Bonding Lug #14-1/0	S3NK225	135
S4	Neutral #6-250 kcmil Bonding Lug #14-1/0 kcmil	S4NK250	155
S5	Neutral (2) #6-250 kcmil Bonding Lug #14-1/0 kcmil	S5NK400	260
S6	Neutral (2) #2-600 kcmil Bonding Lug #6-250 kcmil	S6NK800	350
S7	Neutral (4) #2-600 kcmil Bonding Lug #6-250 kcmil	S7NK1200	535
S8	Neutral (6) #1/0-750 kcmil Bonding Lug (2) #2-600 kcmil	—	included

NOTE: The list price adder for factory installation of an enclosed circuit breaker is 50% of the enclosure list price.

① Enclosures may not meet size requirement for UL 100% rated breakers.  
 ② Not UL approved.  
 ③ Variable depth rotary handle must be ordered separately (S1 - S7).  
 ④ Consult ABB for breakers installed in enclosures.

# Enclosures Type 7/9



S5N400BW7

### Explosion-proof enclosures

(Price does not include circuit breaker; order as a separate item for factory assembly.)

NEMA designation	Breaker type	Enclosure max. rating	Approximate dimensions H x W x D (inches)	Catalog number suffix	List price adder
Type 7/9	S3	Cu only 100A	17 x 10 x 8.65	7	\$ 2100
	S3	Cu only 225A	22.5 x 11.5 x 8.77	7	2850
	S4	Cu only 250A	25 x 18 x 9.92	7	4700
	S5	Cu only 400A	30 x 17 x 9.25	7	6600
	S6	Cu only 600A	35 x 17 x 11	7	8600
	S6	Cu only 800A	41 x 17 x 11	7	10,450
	S7	Cu only 1200A	51 x 17 x 13	7	22,450

To order a breaker in an explosion-proof enclosure, add the suffix "7" to the end of the catalog number and add the list price adder to the list price of the breaker.

Example: **S5N400BW7**  
 S5N400BW breaker..... \$ 2151  
 Explosion proof enclosure..... **6600**  
 Total..... \$ 8751

### Additional options

#### NEMA 4X Stainless steel bolts Captive bolts Drain

NEMA designation	Breaker type	Enclosure max. rating	Cat. no. adder	List price adder	Cat. no. adder	List price adder	Cat. no. adder	List price adder	Cat. no. adder	List price adder
Type 7/9	S3	Cu only 100A	-X	\$ 130	-S	\$ 20	-B	\$ 145	-D	\$ 110
	S3	Cu only 225A	-X	145	-S	25	-B	170	-D	
	S4	Cu only 250A	-X	145	-S	45	-B	355	-D	
	S5	Cu only 400A	-X	175	-S	60	-B	415	-D	
	S6	Cu only 600A	-X	250	-S	60	-B	465	-D	
	S6	Cu only 800A	-X	315	-S	60	-B	535	-D	
	S7	Cu only 1200A	-X	430	-S	80	-B	600	-D	

To add additional options, simply add the suffix to the end of the catalog number.

Example: **S5N400BW7XSD**  
 S5N400BW breaker..... \$ 2151  
 Explosion proof enclosure..... 6600  
 NEMA 4X ..... 175  
 Stainless steel bolts..... 60  
 Drain ..... **110**  
 Total..... \$ 9096

### Catalog number information — Type 7/9

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**S4 N 250 B W 7 - 2 xxx**

● **Frame size**

- S3 = 150 / 225A
- S4 = 250A
- S5 = 400A
- S6 = 600 / 800A
- S7 = 1200A

● **Interrupting rating class**

- B = Basic (240VAC)
- N = Normal
- H = High
- L = Extra high
- D = Special molded case switch

● **Current rating**

- 015 = 15A
- 250 = 250A
- 400 = 400A
- 600 = 600A
- 800 = 800A
- 1200 = 1200A

● **Trip unit function**

- B = LI
- C = LSI
- D = Molded case switch (MCS)
- E = LSI
- T = Thermal-magnetic
- F = LSI
- H = LSI
- J = LSI
- K = LSI
- M = Magnetic only (MCP)

● **Accessories (added in alpha-numeric order)**

- A = Auxiliary switch
- B = Captive bolts
- BA = Bell alarm
- BA3 = Bell alarm (S6/S7 only)
- D = Breather/drain
- H = Fixed rotary handle mounted on CB
- S\_ = Shunt trip with voltage code
- S = Stainless steel bolts
- U\_ = Undervoltage release with voltage code
- X = NEMA 7/9/4X

● **Number of poles**

- 2 = 2 pole
- 4 = 4 pole
- None = 3 pole

● **NEMA enclosure 7/9**

● **Type connectors**

- W = None
- L = Lugs