

SIEMENS

Ingenuity for life



Enclosed Safety Switches

Overview Guide



The Industry's Most Trusted Safety Switches

Siemens safety switches provide superior performance and application flexibility.

An extended array of accessories and replacement parts reduce installation costs. They feature quick-make quick-break operation and visible blade construction. The variety of NEMA rated enclosures allow for versatile environmental applications.

Light Duty Enclosed Switches

Plug Fuse and 60A Special Application Type

Features:

- CSA Certified under file #24563
- Compact size
- Horsepower rated
- Indoor and outdoor enclosures
- Quick-make quick-break mechanism
- Visible "ON"- "OFF" indications
- Padlock-off handle feature
- Door padlock provision
- All fusible switches suitable for use as service entrance equipment
- Bondable neutral (where indicated)
- Lugs suitable for copper or aluminum wire
- Switches accept plug fuses only – fuses not included
- Hubs
- Ground Bar Kit: GSGK60c



ID Switches

Features:

- CSA Certified under file #13076
- General duty switch designed for the Canadian construction market
- Compact size with integrated handle
- Horsepower rated
- Type 1 enclosure for indoor applications
- Quick-make quick-break mechanism
- Visible "ON"- "OFF" indications
- Padlock-off handle feature
- Door padlock provision
- ID switches will accept the following CSA class fuses: Class H, Class K, Class R (Adapter kits are required) and Class T (Adapter kits are required)
- Fuse Puller included for 30-200A
- Manufactured in Canada for quick delivery and easy access to replacement parts



SE Switches

Features:

- CSA Certified under file #13076
- Construction grade switch
- Compact load break switch rated for service entrance applications at 240V
- Type 1 enclosure for indoor applications
- Solid neutral bonded to the enclosure
- Door padlock provision
- SE switches will accept the following CSA/UL class fuses: Class H, Class K, Class R (Adapter kits are required) and Class T (Adapter kits are required)
- Manufactured in Canada for quick delivery and easy access to replacement parts



General Duty Safety Switches

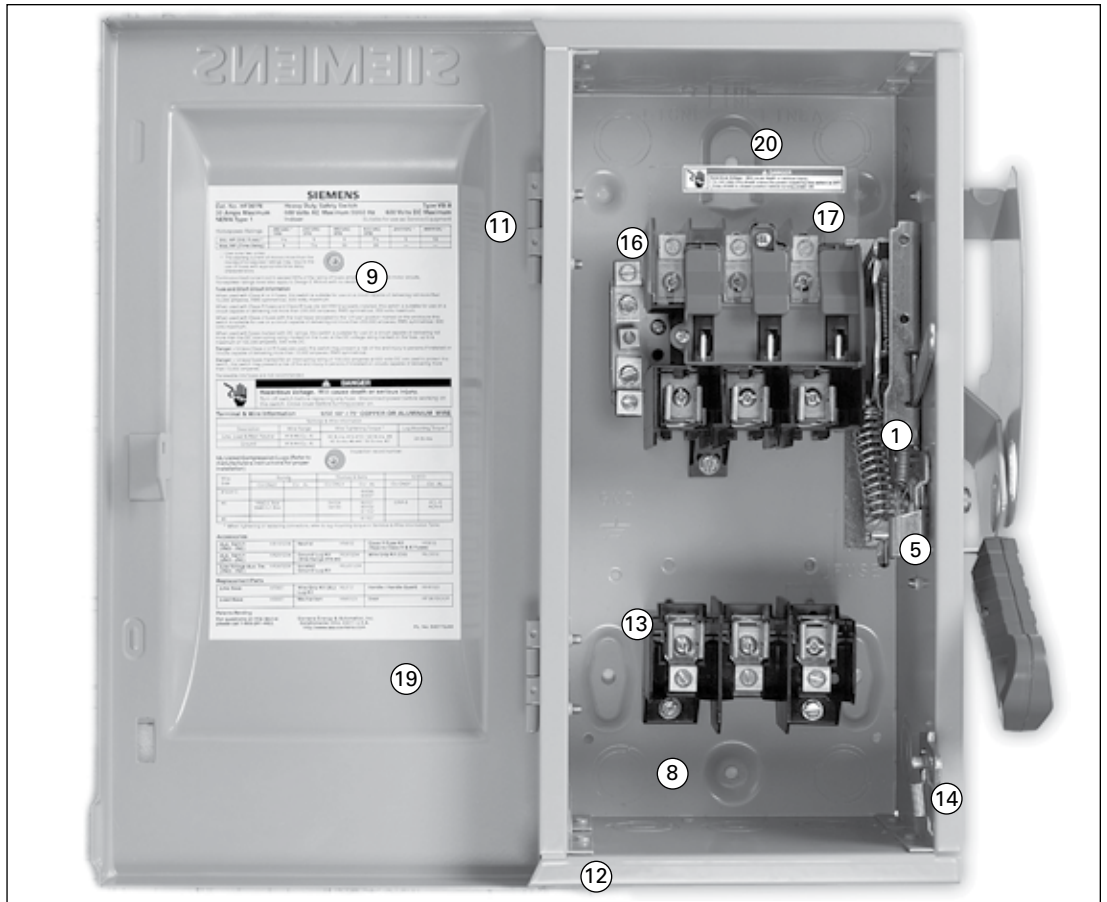
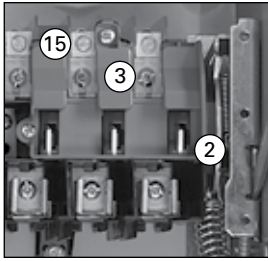
Features:

- Tangential knockouts through 200A for easy conduit lineup
- Quick-make quick-break operating mechanism that ensures positive operation
- Generous wiring gutters that meet or exceed CEC wire-bending space requirements
- Visible blade, double-break switch action
- Highly visible red handle grip
- Informative door labeling which includes replacement parts list
- Handle and cover padlocking provisions
- Side-hinged door that opens 180 degrees for easier wiring
- A unique enclosure design that adds rigidity and strength. Its rolled edge prevents cuts and scrapes to conductors and to installer's hands



Heavy Duty Safety Switches

Product Overview



1. Quick-make quick-break operating mechanism that ensures positive operation.
2. Visible blade, double-break switching action.
3. Arc chutes dissipate heat and prolong switch life.
4. Highly visible red handle grip. Designed for hook stick operation.
5. Defeatable dual cover interlock.
6. Center punch provided for field drilling to allow ON padlocking.
7. Handle can be padlocked in the OFF position with up to (3) padlocks with 5/16" hasps.
8. Generous top, bottom and side gutters that meet or exceed CEC wire-bending space requirements.
9. Informative door labeling which includes replacement parts list.
10. Tangential knockouts through 600A for easy conduit lineup.
11. Side-hinged door that opens past 180 degrees for easier wiring.
12. Unique enclosure design increases rigidity and prevents cuts and scrapes to conductors and installer's hands.
13. Spring reinforced fuse clips that assure reliable contact for cool operation.
14. Door latch securely holds door closed and allows cover padlocking.
15. Front removable mechanical lugs that are suitable for CU/Al 60 or 75°C conductors.
16. Lugs are field convertible to copper body and to a wide variety of compression connectors.
17. Hinged clear line terminal shield with probe holes for inspecting or testing line side terminals.
18. Embossed aluminum nameplate on Heavy Duty Switches.
19. Drawn cover for increased rigidity and resistance to abuse.
20. Top key hole and bottom mounting holes provide easy 2 or 3 point mounting.

General Duty and Heavy Duty

Enclosure Types

A Type 1 enclosures are intended for indoor use primarily to provide protection against contact with the enclosed equipment in locations where unusual service conditions do not exist.

B Type 3R enclosures are intended for outdoor use primarily to provide a degree of protection against falling rain and sleet and must remain undamaged by the formation of ice on the enclosure. They are not intended to provide protection against conditions such as dust, internal condensation, or internal icing.

C Type 4, 4X enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust, rain, splashing water and hose-directed water. They are not intended to provide protection against conditions such as internal condensation or internal icing. Also meets 4X definition by providing a high degree of protection against corrosion. Siemens 30-200A stainless steel 4X switches are supplied stainless interior parts and hardware as standard.

D Type 12¹ enclosures are intended for indoor use primarily to provide a degree of protection against dust, falling dirt and dripping water. They are not intended to provide protection against conditions such as internal condensation.

Type 7/9 enclosures for use in hazardous locations. Use with molded case switches listed in Section 5 of the Siemens Canada Power Product Catalogue.



¹ VBII Type 12 switches are also rated 3R and 3S for outdoor use. Type 3R is defined in B above. 3S rated enclosures provide a degree of protection against windblown dust and allow operation when the enclosure is ice laden.

Feature Comparison

Features

Light Duty (Plug Fuse)	SE Switches	ID Switches	VBII General Duty	VBII Heavy Duty	Double Throw	Features/Ratings
—	—	•	—	•	•	30 thru 600 Amps
—	—	—	—	•	—	800 and 1200 Amps
•	•	•	•	•	•	240 Volt AC
—	—	•	—	•	•	600 Volt AC
—	—	—	—	•	•	250 Volt DC
—	—	—	—	•	—	600 Volt DC
—	—	—	•	•	•	Double-break visible blade design (30-200A)
•	•	•	•	•	•	Quick-make quick-break switching action
•	•	•	•	•	•	Highly visible ON/OFF handle indication
•	•	•	•	—	•	Handle design for hook stick operation
•	•	•	•	•	•	Padlockable cover latch
•	—	•	•	•	•	Padlockable handle
—	•	•	• ³	•	•	Single voidable cover interlock
—	•	•	—	•	•	Dual voidable cover interlock
•	•	•	•	•	•	Type 1 enclosure
•	—	—	—	•	•	Type 3R enclosure
—	—	—	—	•	—	Type 12 enclosure
—	—	—	—	•	—	Type 4/4X enclosures
•	•	•	•	•	•	Generous wiring gutters that meet CSA and CEC wire-bending space requirements
•	•	•	•	•	•	Lugs suitable for copper or aluminum at 60° or 75°C
•	•	•	•	•	•	CU/AL wire lugs that meet CSA C22.2 No.65-03 requirements
—	—	—	—	•	•	Suitable for field-convertible – compression connectors
—	—	•	• ⁶	•	•	All plated copper current carrying parts (except lugs)
—	•	•	•	•	•	Spring reinforced Fuse Clips (except 30A general duty) ²
—	•	•	—	•	•	Clear line terminal shield available
—	•	•	•	•	•	Replacement parts
—	—	—	—	•	—	Field addable 200% neutral
—	•	•	• ⁷	• ⁷	• ⁷	Provisions for CSA Class T, R and H Fuses
—	—	• ¹	—	•	• ¹	Provisions for CSA Class J and L Fuses
—	—	—	—	•	•	Metal nameplate
—	—	•	—	•	•	Aux. switch kits
—	—	—	—	• ⁴	—	Type 4X with stainless steel interior parts
—	•	—	• ⁵	•	—	Rolled flange enclosure design

¹ Only 800 & 1200A HD switches will accept Class L fuses.

² 30A general duty switches have fuse clips constructed of spring type copper.

³ Not supplied on 30A outdoor & plug fuse switches.

⁴ 30-200A Type VBII in stainless steel enclosures.

⁵ 60-200A.

⁶ 200A general duty switches have aluminum neutral assemblies.

⁷ 100-200A GD, 100-200A DT and 100-1200A HD switches will accept Class T fuses.

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Subject to change without prior notice.

Printed in Canada

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Order No: EM-LP-1627

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