Heavy Duty Safety Switches

Type VBII 4 & 6-Pole Heavy Duty Safety Switches

Selection

Application

4 & 6-pole Switches are commonly used as a disconnecting means for two-speed, two-winding motors. Fused switches provide both over current and short circuit protection. Non-fusible switches normally provide a local disconnection means for two-speed motors which are remote from their motor controller. 4-pole switches are also used in 3-phase, 4-wire circuits when a switching neutral is required. All 4 & 6-pole switches are service entrance rated.

Description

4 & 6-pole switches are available in 30-200A ratings and in both fusible and non-fusible versions. 4-pole switches are supplied with either Type 1 or Type12/3R enclosures.
6-pole switches are available with either Type 12/3R or Type 4X stainless steel enclosures.

Standards

- UL & CUL listed under file #E4776
- Meets UL98 for enclosed switches
- 4 & 6-Pole switches are suitable for use as service entrance
- Meets NEMA Standard KS-1 for enclosed switches
- Meets NEC wire bending space requirements

Features

- Visible blade, double break switching action
- Highly visible ON/OFF indication
- Defeatable dual cover interlock
- Padlock option in OFF position
- All copper current carrying parts①
- Tangenital knockouts (Type 1, 4-pole switches)



HNF663S

4-Pole Type VBII Switches①②⑤

System	Amp Rating	Indoor Type 1 Catalog Number	List Price $	Ship Wt. (lbs.)	Type 12/3R Industrial Catalog Number	List Price $	Ship Wt. (lbs.)	Horsepower Ratings③ 240V, 2Ø, 4W Std.	240V, 2Ø, 4W Max.	240V 3Ø Std.	240V 3Ø Max.	480V, 3Ø Std.	480V, 3Ø Max.	600V, 3Ø Std.	600V, 3Ø Max.	250V DC
Fusible 600 Volt AC, 250 Volt DC — 4-Pole, 4 Fuse④																
LINE LOAD ON OFF	30	HF461	926.00	36	HF461J	1198.00	36	3	10	3	7½	5	15	7½	20	5
	60	HF462	1082.00	40	HF462J	1321.00	40	7½	20	7½	15	15	30	15	50	10
	100	HF463	1786.00	43	HF463J	2045.00	43	15	30	15	30	25	60	30	75	20
	200	HF464■	2939.00	88	HF464J■	3419.00	88	25	50	25	60	50	125	60	150	40
Non-fusible 600 Volt AC, 250 Volt DC — 4-Pole																
LINE LOAD ON OFF	30	HNF461	881.00	32	HNF461J	964.00	32	—	10	—	10	—	20	—	30	5
	60	HNF462	926.00	34	HNF462J	1128.00	34	—	20	—	20	—	50	—	60	10
	100	HNF463■	1716.00	36	HNF463J■	1962.00	36	—	30	—	40	—	75	—	100	20
	200	HNF464■	2492.00	78	HNF464J■	2964.00	78	—	50	—	60	—	125	—	150	40

6-Pole Type VBII Switches①②⑤

System	Amp Rating	Type 12/3R Industrial Catalog Number	List Price $	Ship Wt. (lbs.)	Type 4X Stainless Steel Catalog Number	List Price $	Ship Wt. (lbs.)	Horsepower Ratings③ 240V 3Ø Std.	240V 3Ø Max.	480V, 3Ø Std.	480V, 3Ø Max.	600V, 3Ø Std.	600V, 3Ø Max.	250V DC
Fusible 600 Volt AC, 250 Volt DC — 6-Pole, 6 Fuse④														
LINE LOAD ON OFF	30	HF661J	3594.00	37	HF661S■	12437.00	37	3	7½	5	15	7½	20	5
	60	HF662J	4324.00	41	HF662S■	13063.00	41	7½	15	15	30	15	50	10
	100	HF663J■	5194.00	44	HF663S■	22191.00	44	15	30	25	60	30	75	20
	200	HF664J■	9599.00	90	HF664S■	30293.00	90	25	60	50	125	60	150	40
Non-fusible 600 Volt AC, 250 Volt DC — 6-Pole														
LINE LOAD ON OFF	30	HNF661J	3156.00	33	HNF661S	7422.00	33	—	10	—	20	—	30	5
	60	HNF662J	3723.00	35	HNF662S	8264.00	35	—	20	—	50	—	60	10
	100	HNF663J	4479.00	37	HNF663S	10120.00	37	—	40	—	75	—	100	20
	200	HNF664J	8155.00	80	HNF664S■	18770.00	80	—	60	—	125	—	150	40

■ Built to order. Allow 2–3 weeks for delivery.

① Lugs are aluminum alloy as standard. Optional copper body lugs are available.

② All 4 & 6-pole VBII switches are suitable for use as service equipment when a neutral is installed or equipment ground kit is properly connected.

③ Dual horsepower ratings: Std. – applies when non-time-delay fuses are installed. Max. – applies when time delay fuses are installed.

④ Fusible switches accept Class H Fuses as the standard. Class R & J fuses can also be installed and increase the rating from 10,000 to 200,000 AIC. For Class J, the load base is moved upward. For Class R fuses, rejection kits are required.

⑤ Supplied with factory installed ground lugs.

Heavy Duty Safety Switches

Special Application Switches / Interlocked Receptacle Switches

Selection

Application

Receptacle Safety Switches provide cord connection protection of heavy-duty portable equipment (welders, infrared ovens, batch feeders, portable conveyors, assembly line fixtures and tools, refrigerator trucks, etc.) under load or fault conditions.

Description①②

Type 12 and 4/4X Receptacle Safety Switches are available with 3-phase, 4-wire grounded type Crouse-Hinds Arktite™ 2 receptacle, or Pyle-National pre-wired and mounted with interlock linkage to the switch mechanism. Insertion or removal of the plug is prevented by the interlock linkage while the switch is in the "ON" position. Receptacle prevents operation of switch if incorrect plug is inserted. Type 4/4X Switches are provided with stainless steel interior parts.
All receptacle switches are 3-pole, 3-wire plus ground.



Crouse-Hinds Interlocked Receptacle Switches

Ampere Rating⑤	Type 12⑥ Catalog Number	Type 12⑥ List Price $	Type 4/4X⑦ Catalog Number	Type 4/4X⑦ List Price $	Shipping Weight Std. Pkg.④	Accepts Crouse-Hinds Arktite① Plug Catalog Number
240V Fusible, 3-Pole, 3-Wire						
30	**HF321JCH**	**2365.00**	**HF321SCH▲**	**7116.00**	23	APJ3485 & NPJ3485
60	**HF322JCH**	**2440.00**	**HF322SCH▲**	**7437.00**	30	APJ6485 & NPJ6485
100	**HF323JCH**	**3161.00**	**HF323SCH▲**	**12067.00**	36	APJ10487 & NPJ10487
600V Fusible, 3-Pole, 3-Wire						
30	**HF361JCH**	**2449.00**	**HF361SCH**	**7437.00**	24	APJ3485 & NPJ3485
60	**HF362JCH**	**2588.00**	**HF362SCH**	**7655.00**	30	APJ6485 & NPJ6485
100	**HF363JCH**	**3392.00**	**HF363SCH▲**	**12803.00**	36	APJ10487 & NPJ10487
600V Non-Fusible, 3-Pole, 3-Wire						
30	**HNF361JCH▲**	**2153.00**	**HNF361SCH▲**	**6857.00**	22	APJ3485 & NPJ3485
60	**HNF362JCH**	**2440.00**	**HNF362SCH**	**6922.00**	29	APJ6485 & NPJ6485
100	**HNF363JCH▲**	**2997.00**	**HNF363SCH▲**	**11787.00**	35	APJ10487 & NPJ10487
600V Fusible, 3-Pole, 3-Wire with Viewing Window						
30	**HF361JCHW▲**	**2597.00**	**HF361SCHW▲**	**7593.00**	24	APJ3485 & NPJ3485
60	**HF362JCHW**	**2743.00**	**HF362SCHW**	**7810.00**	30	APJ6485 & NPJ6485
100	**HF363JCHW▲**	**3547.00**	**HF363SCHW▲**	**12959.00**	36	APJ10487 & NPJ10487
600V Non-Fusible, 3-Pole, 3-Wire with Viewing Window						
30	**HNF361JCHW▲**	**2301.00**	**HNF361SCHW▲**	**7005.00**	22	APJ3485 & NPJ3485
60	**HNF362JCHW**	**2592.00**	**HNF362SCHW▲**	**7074.00**	29	APJ6485 & NPJ6485
100	**HNF363JCHW▲**	**3151.00**	**HNF363SCHW▲**	**11944.00**	35	APJ10487 & NPJ10487

Pyle-National Interlocked Receptacle Switches
3-Pole, 3-Wire Plus Ground Fusible and Non-Fusible

Ampere Rating Switch	Ampere Rating Receptacle	Voltage Rating	Type 12 Catalog Number⑥	List Price $	Type 12 Stainless Steel Catalog Number⑦	List Price $	Shipping Weight Std. Pkg.④	Accepts Pyle-National QuelArc™②③ Plugs Plug Catalog Number
30	30	600 (F)	**HF361JPN▲**	**2449.00**	**HF361SPN▲**	**7437.00**	23	**JPD-83046**
		600 (N-F)	**HNF361JPN**	**2153.00**	**HNF361SPN**	**6857.00**	21	
60	60	240 (F)	**HF322JPN▲**	**2440.00**	—	—	28	**JPD-116046**
		600 (F)	**HF362JPN▲**	**2588.00**	**HF362SPN▲**	**7655.00**	28	
		600 (N-F)	**HNF362JPN**	**2440.00**	**HNF362SPN**	**6922.00**	27	

▲ Built to order. Allow 6–8 weeks for delivery.

① Arktite™ is a registered trademark of the Crouse-Hinds Company. Plugs are not sold or supplied by Siemens.

② Indicates plug with maximum diameter cable bushing.

③ QuelArc™ is a registered trademark of the Pyle-National Company.

④ In pounds (lbs.).

⑤ Ampere rating of both switch and receptacle.

⑥ Also rated Type 3R/3S.

⑦ Enclosure is constructed of Type 304 stainless steel.

Application

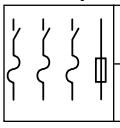
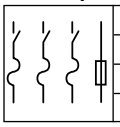
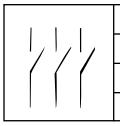
Siemens Non-Metallic Safety Switches have fiberglass reinforced polyester enclosures which are extremely resistant to a wide range of corrosive atmospheres which can be encountered in waste water treatment plants and certain industrial applications.

Description

30-200A, 600V Max, fusible and non-fusible switches are available in Type 4X enclosures. The fiberglass reinforced enclosure allows a wide range of operating temperatures and is supplied with a continuous memory retaining gasket for a superior seal against entry of water, dust and other contaminants. The excellent insulating properties of fiberglass virtually eliminate problems caused by internal condensation.

All switches are load break rated and are provided with an equipment ground kit as standard. Class R fuse clip kits and auxiliary switch kits are also available.



System	Ampere Rating	Catalog Number	Ship Weight Std.pkg. (lbs.)	List Price $	Horsepower Rating—3-Phase						250 Volts DC	600 Volts DC
					240 Volt AC		480 Volt AC		600 Volt AC			
					Std.	Max.	Std.	Max.	Std.	Max.		
3-Pole, 4-Wire, 240 Volt Fusible, Type 4X												
	30	**HF321NX**	21	**3320.00**	3	7½	—	—	—	—	5	—
	60	**HF322NX▲**	22	**3595.00**	7½	15	—	—	—	—	10	—
3-Pole, 4-Wire, 600 Volt AC Fusible, Type 4X②③												
	30	**HF361NX**	21	**3693.00**	3	7½	5	15	7½	20	5	15④
	60	**HF362NX**	22	**4046.00**	7½	15	15	30	15	50	10	30④
	100	**HF363NX▲①**	39	**7795.00**	15	30	25	60	30	75	20	50④
	200	**HF364NX▲①**	83	**9917.00**	25	60	50	125	60	150	40	50
3-Pole, 3-Wire, 600 AC Volt Non-Fusible,① Type 4X②③												
	30	**HNF361X**	20	**3127.00**	—	7½	—	20	—	30	5	15④
	60	**HNF362X**	20	**3509.00**	—	15	—	50	—	60	10	30④
	100	**HNF363X▲**	38	**6734.00**	—	30	—	75	—	100	20	50④
	200	**HNF364X▲**	81	**9509.00**	—	60	—	125	—	150	40	50

▲ Built to order. Allow 6–8 weeks for delivery.

① Also used for 240 volt applications.
② Add "L" to end of catalog number for switches less line & load lugs with mounting hardware for crimp type or copper body lugs.
③ 200A switches are also rated 600V DC max.
④ 600V DC and 600V DC horsepower rating shown requires (2) poles to be connected in series.

Non-Metallic Features

- 30, 60, 100 and 200 Ampere Switches
- 600 Volts Fusible
- 600 Volts Non-Fusible
- Rated 10,000 AIC with Class H Fuses
- Rated 200,000 AIC with Class J or R Fuses
- UL-Listed under File E4776
- Horsepower Rated
- Suitable for use as Service Equipment
- Quick-make, quick-break mechanism
- Visible Blade Construction
- Padlock-off handle feature
- Field Installable Auxiliary Contacts
- Field Replaceable Line and Load Bases
- Factory Installed Ground Lug Supplied as Standard
- Line Terminal Shields
- Neutrals Installed as Standard on Fusible Switches