

Heavy Duty Safety Switches

Type ECS Elevator Control Switches

Features

Elevator Control Switches

Standard Features

- 30-400 A, 600 Vac, 3-phase fused power switch
- 200 kA RMS assembly short-circuit current rating
- Shunt trip 120 V
- Control power terminal block
- Ground lug compliant with the National Electric Code
- Class J fuse mounting only (Class J fuses not included)
- Key to test switch
- Pilot light – "ON"
- Mechanically interlocked auxiliary contact for hydraulic elevators with battery backup (5 A, 120 Vac rated)
- Handle designed for hook stick operation
- OSHPD Special Seismic Certification Preapproval (OSP)

Configurable Standard Features

- Control power transformer with fuses and blocks
- Fire safety interface relay
- Isolated neutral lug
- Fire Alarm Voltage Monitoring Relay (to monitor Shunt Trip Voltage)
- NEMA 3R, 4, and 12 enclosures available

Optional Features

- Oversized 200% rated neutral option available where required by excessive non-linear loads
- Additional auxiliary contact (1NO / 1NC)
- Integrated surge protection device (TPS3 03). Externally viewable through window in door

Other Options

Optional features include contact closure, i.e. battery lowering/door opening system. The B option offers support for the states of Arizona, Oregon, and Texas requirements to prevent "nuisance" fire alarms by over-riding the "Control Power not Available" signal when the Siemens Elevator control disconnect is manually (intentionally) turned off, and distinctive signaling for ON-OFF-TRIPPED conditions (Option B).

UL_A / NEC_B Listed Horsepower Ratings

Voltage / Poles	30A		60A		100A		200A		400A	
	Std ^②	Max ^①	Std ^②	Max ^①	Std ^②	Max ^①	Std ^②	Max ^①	Std ^②	Max ^①
208VAC / 3 Pole _B	2	5	5	10	10	15	20	40	40	75
240VAC / 3 Pole _A	2	7½	7½	15	15	30	25	60	50	75
480VAC / 3 Pole _A	5	15	15	30	25	60	50	125	100	150
6008VAC / 3 Pole _A	7½	20	15	50	30	75	60	150	125	200

Fuse and Short Circuit Information

This switch is suitable for use with Class J Fuses ONLY.

① Max HP with time delay Class J Fuses.

② Max HP with non-time delay Class J Fuses.

All Siemens Elevator Control elevator disconnect switches are UL-Listed and designed for safe access by qualified personnel. When maintenance or shutdown service is required, no energized parts are exposed inside the enclosure when the disconnect switch is manually turned to the OFF position. For proper maintenance safety precautions, always turn off incoming power to the Siemens Elevator Control elevator switch when possible. When servicing any live electrical equipment, always wear appropriate personal protective equipment.

Shunt-Trip Operation

The disconnect means is a shunt-trip operated switch. The control power source for the shunt-trip operator is a 120 Vac supply originating in the Siemens Elevator Control switch. Current to the shunt-trip device is switched by an isolation relay, which is in turn controlled by the FACP.

The control signal may be either 24 Vdc from the FACP (Option R2) or a "dry" contact closure in the FACP (Option R1). In the case of a "dry" contact closure, the sensing voltage is 120 Vac originating in the Siemens Elevator Control switch.

A key test switch (Option K) is included for testing the shunttrip circuit.

Supervisory Indication

Additionally, an optional separate relay can be specified to monitor the 120 Vac control power source in the Siemens Elevator Control switch. This relay (Option F1 or F3) is used to provide supervisory indication of "Control Power Available" as required by NFPA 72 Section 6.15.4.4.

Transformer Fuse Details

ECS Voltage/ Transformer Voltage	Primary Fuse (amps)	Secondary Fuse (amps)
208/120	FNQ-R-2	FNM-1 1/4
240/120	FNQ-R-2	FNM-1 1/4
480/120	FNQ-R-1	FNM-1 1/4
600/120	FNQ-R-1	FNM-1 1/4