

HIGHLIGHTS:
>3-Pole Fused Switch
> 120 VAC Shunt Trip
> Class J fuse block (fuses not included)
$>$ Ground Lug as per NEC
$>$ Control Power brought to terminals
$>$ Modular components
$>$ NEMA 1 Industrial
> Enclosure Standard

## FEATURES/BENEFITS:

$>$ Fused switch - provides high current limitation and short circuit withstand
> Padlockable handle - allows panel to be locked with switch in the off position ensuring load side power isolation during servicing
$>$ Shunt trip - allows for remote tripping of the main line power prior to the application of water in elevator
> Sprinkler system applications

Ferraz Shawmut's Engineered Switches offer modular industrial control panels featuring a fusible shunt trip to allow for remote disconnection. An array of available options allows for maximum functionality to be built into a single compact panel.

Panels built for elevator applications feature control transformers (fusing both primary and secondary sides), a fire safety interface relay with a fire alarm voltage monitoring relay and mechanically interlocked auxiliary contacts.

Use of Ferraz Shawmut's Amp-Trap $200{ }^{\circledR}$ AJT Class J fuses permits easy selectivity coordination, while providing the panel and its components with superior current limitation and the ability to withstand high fault conditions. AJT fuses provide added system reliability since no maintenance or periodic testing is required as with other electromechanical overcurrent devices.

## OPTIONAL FEATURES:

> Industrial Control circuit transformer
> Primary (208, 240, 480 or 600 VAC)
$>$ Fire safety relay for control interface (3PDT Relay, choice of Coil Voltage: 120 VAC, 24 VDC or 24VAC)
$>$ Oil-tight Key Switch to test 2 position selector switch.
$>$ Oil-tight Power enabled power light (choice of colors: Red, Green, White or Yellow)
$>$ Isolated neutral lug - 100\%. Oversized 200\% for excessive Non-Linear loads.
$>$ Auxiliary and Alarm Contacts are both Form C contacts. The Auxiliary contacts change state when the switch is in the on position. Alarm contacts change state when the switch is in the tripped position. The Alarm contact is located in place of the second auxiliary contact.
$>$ NEMA 12, 3R, 4 or 4X enclosure available.
Ratings
$>600$ VAC: $30 \mathrm{~A}, 60 \mathrm{~A}$,
$>$
100A, $200 \mathrm{~A} \& 400 \mathrm{~A}$
$>$
Withstand rating:
200kA I.R.


## FUSIBLE SHUNT TRIP

## DISCONNECT SWITCHES

## An example of an Engineered Switch Catalog number

 is listed below with the ordering process detail.
## ES2T20R1KRN2A2

Select fusible shunt trip switch:

|  | Fusible Shunt Trip Switch Maximum Horsepower Ratings based on Motor Load |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 30 AMP |  |  | 60 AMP |  |  | 100 AMP |  |  | 200 AMP |  |  | 400 AMP |  |  |
|  | FLA \% | 150 | 175 | 225 | 150 | 175 | 225 | 150 | 175 | 225 | 150 | 175 | 225 | 150 | 175 | 225 |
|  | 208 VAC 39 | 5 | 5 | 3 | 10 | 10 | 10 | 20 | 15 | 15 | 40 | 40 | 30 | 75 | 75 | 60 |
| ¢ | 240 VAC 39 | 5 | 5 | 5 | 10 | 10 | 10 | 20 | 20 | 15 | 50 | 40 | 30 | 125 | 75 | 75 |
| $\stackrel{ }{5}$ | 480 VAC $3 \Phi$ | 10 | 10 | 10 | 30 | 25 | 20 | 50 | 40 | 30 | 100 | 75 | 75 | 250 | 150 | 50 |
| $\bigcirc$ | 600 VAC 39 | 15 | 15 | 10 | 30 | 30 | 25 | 60 | 50 | 40 | 125 | 100 | 100 | 250 | 200 | 200 |


| Ampacity Rating <br> 30 | Catalog Number <br> ES3 |
| :---: | :---: |
| 60 | ES6 |
| 100 | ES1 |
| 200 | ES2 |
| 400 | ES4 |

Select options:

| Option No. | Description | Catalog No. |
| :---: | :--- | :---: |
| $\mathbf{1}$ | Control Transformer |  |
|  | 208VAC to 120VAC | T20 |
|  | 240VAC to 120VAC | T24 |
|  | 480VAC to 120VAC | T48 |
|  | 600VAC to 120VAC | T60 |
| $\mathbf{2}$ | Fire Safoty Relay 3PDT |  |
|  | with Voltage Monitoring | R1 |
|  | 120VAC coil | R2 |
|  | 24VDC coil | R3 |
| $\mathbf{3}$ | 24VAC coil |  |
|  | Keyswitch | K |
| $\mathbf{4}$ | Key to test switch, 120V, with legend plate | Pilot light - power enabled |
|  | Red | R |
|  | Green | G |
|  | White | W |
|  | Yellow | Y |
| $\mathbf{5}$ | Isolated Neutral Lug |  |
|  | 30-60A (for 200\% oversize use N1) | N6 |
|  | 100A (for 200\% oversize use N2) | N1 |
|  | 200A (for 200\% oversize use N4) | N2 |
|  | 400A (for 200\% oversize use two N4) | N4 |
| $\mathbf{6}$ | Mechanical Interlocked Auxiliary Contacts |  |
|  | 1Form C auxiliary contact | A |
|  | 2 Form C auxiliary contacts | B |
|  | 1 Form C auxiliary contacts |  |
|  | and 1 Form C auxiliary alarm contact | C |
| $\mathbf{7}$ | Enclosure options |  |
|  | NEMA 1 standard | - |
|  | NEMA 12 | 2 |
|  | NEMA 3R | 3 |
|  | NEMA 4 | NEMA 4X |

Horsepower values in the above table are intended for estimating the size of the switch only. For light duty applications size switch for a minimum of 1.5 times the motors full load amps. Medium or General duty applications size for a minimum of 1.75 times the full load amps of the motor. For Heavy Duty applications use a maximum of 2.25 times the full load amps of the motor.


Notes:

1. Options must be selected in above order for part number to be valid.
2. Elevator panels must include a control transformer, fire safety relay with voltage monitoring and mechanical interlocked auxiliary contact.
3. Options 1,2 , and 6 are required. Options $3,4,5$, and 7 are optional.

## FUSIBLE SHUNT TRIP SWITCH

## 120 VAC Fire Safety Control Interface



FUSIBLE SHUNT TRIP SWITCH

## 24 VDC Fire Safety Control Interface



