## Quik-Spec Power Module Panel

## All-in-one elevator disconnect



## Product description:

The Quik-Spect${ }^{\text {TM }}$ Power Module Panel (PMP) is an all-in-one multi-elevator disconnect switch available in configurations to meet virtually any shutdown and disconnect requirement.

## Features and options:

- 400-800 amp bus MLO and/or main fused switch*
- 200kA RMS short-circuit current rating
- Feeder switches 30-200 amp, 600Vac with Class J clips ${ }^{1}$


## - Copper bus

Optional features:

- Control power transformer with fuses and blocks
- Fire safety interface relay
- Key to test switch
- Pilot light - "ON"
- Isolated neutral lug²
- Mechanically interlocked auxiliary contact for hydraulic elevators with battery backup ( 5 amp 120Vac rated)
- Fire alarm voltage monitoring relay (to monitor shunt trip voltage)
- NEMA 3R enclosures available (consult factory)
- Phase failure and undervoltage relay available (consult factory)
- For added safety, use the Bussmann SAMI ${ }^{T M}$ fuse covers to improve maintenance personnel protection [OSHA 1910.335(A)(2)(ii)] ${ }^{3}$


## Agency information:

- UL 67 enclosed and dead-front switches
* Contact Bussmann for applications greater than 800 amps .

1Class J fuses not included.
2Oversized 200\% rated neutral option available where required by excessive non-linear loads.
3 Through 100A.

## Bussmann

| Panel components |  |
| :---: | :---: |
|  | Voltage/amp ratings |
| Component 1 (required) |  |
| Control power transformer (CPT) Std. 100VA with PRI \& SEC Fuse ( 120 V secondary) | 208Vac 240 Vac 480 Vac 600 Vac |
| Component 2 (required) |  |
| Fire safety interface Relay (3PDT, 10 amp , 120V) | 24 Vdc Coil <br> 120 Vac Coil |
| Component 3 (optional) |  |
| Key to test switch | 120Vac |
| Component 4 (optional) |  |
| Pilot light - "ON" | red green white |
| Component 5 (optional) |  |
| Isolated neutral lug (full capacity) ${ }^{2}$ | $\begin{gathered} 30-60 \mathrm{~A} \\ 100 \mathrm{~A} \\ 200 \mathrm{~A} \end{gathered}$ |
| Component 6 (required) |  |
| Mechanically interlocked auxiliary contact for hydraulic elevators with battery back-up ( 5 amp 120 Vac rated) | 1 NO \& 1 NC |
| Component 7 (optional) |  |
| Fire alarm voltage monitoring relay (To monitor shunt trip voltage) | Single-pole |
| Class J fuses not included. <br> "Oversized 200\% rated neutral option available where req non-linear loads. ${ }^{\text {B Through 100A. }}$ | ired by excessive |


| Power module panel <br> Ratings (Amps) (Panelboard bus) | Catalog number |
| :---: | :---: |
| 400 | PMP-400 |
| 600 | PMP-600 |
| 800 | PMP-800 |


| Voltage | Max inrush | Max ontime ${ }^{1}$ | Momentary inrush |
| :---: | :---: | :---: | :---: |
| 120Vac, 60Hz | 4 amps | 1.5 cycles | 140VA |

## Module switch options, X dimensions and lug data

| Switch Amp rating | Mounting | " $\mathrm{X}^{\prime \prime}$ units | Conductors per phase | Terminal wire range |
| :---: | :---: | :---: | :---: | :---: |
| 600V - branch switch unit ${ }^{1}$ |  |  |  |  |
| 30 | Horizontal | 6X | 1 | \#14-1/0 Al or Cu |
| 30-30 | Horizontal | 6X | 1 | \#14-1/0 Al or Cu |
| 60 | Horizontal | 6X | 1 | \#14-1/0 Al or Cu |
| 60-60 | Horizontal | 6X | 1 | \#14-1/0 Al or Cu |
| 100 | Horizontal | 6X | 1 | \#14-1/0 Al or Cu |
| 100-100 | Horizontal | 6X | 1 | \#14-1/0 Al or Cu |
| 200 | Horizontal | 6X | 1 | \#4-300 kcmil Al or Cu |
| 200-200 | Horizontal | 6X | 1 | \#4-300 kcmil Al or Cu |
| 600V - main fused switch |  |  |  |  |
| 400 | Horizontal | 1X | 1 or 2 | (1) $250-750 \mathrm{kcmil}$ (2) $3 / 0-250 \mathrm{kcmil} \mathrm{Al}$ or Cu |
| 600 | Horizontal | 3X | 1 or 2 | (1) \#4-600kcmil (2) $1 / 0-250 \mathrm{kcmil} \mathrm{Al}$ or Cu |
| 800 | Vertical | 9X | 1 or 2 | (1) 250-750kcmil (2) 3/0-250 kcmil Al or Cu |

${ }^{1}$ May mix switch amps 30 to 200A: 30/60, 30/100, 30/200, etc.

Main lugs terminal data standard mechanical lugs

| $\begin{aligned} & \text { Main amp } \\ & \text { rating } \end{aligned}$ | Conductors per phase | Min. wire bending space (inches) ${ }^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Terminal wire range | A | B | C |
| 400 | 1 | $3 / 0-750 \mathrm{kcmil} \mathrm{Al}$ or Cu | 14.00 | 10.625 | 7.00 |
|  | 2 | $3 / 0-250 \mathrm{kcmil}$ Al or Cu |  |  |  |
| 600 | 2 | \#4-500 kcmil Al or Cu | 14.00 | 10.625 | 7.00 |
| 800 | 4 | \#2-600kcmil Al or Cu | 18.00 | 10.625 | 7.00 |

Top


Standard panel box dimension with available panel space

| Dimensions (inches) |  |  |
| :--- | :---: | :---: |
| Amps | $\mathbf{H ~ x ~ W ~ \mathbf { ~ x ~ D ~ }}$ | " $\mathbf{X " ~}^{\text {units }}{ }^{3}$ |
| 400 | $57 \times 40 \times 10.4$ | 18 X |
| 600 | $73.5 \times 44 \times 10.4$ | $30 X$ |
| 800 | $90 \times 44 \times 10.4$ | $40 X$ |
| Where $\times$ Units exceed panel space, use feed-through lugs and second enclosure. |  |  |

## Feed-through lugs

| Amps | " X " Space |
| :--- | :---: |
| 400 | $3 X$ |
| 600 | $3 X$ |
| 800 | $7 X$ |

Wire bending space per NEC ${ }^{\circledR}$ Table 312.6(A)
Accessory control enclosure

## ACE <br> 6X

[^0] four switch units.


[^1]
## Typical control with wiring options for fire safety interface (option R1)



Note: Contacts for FR are shown in de-energized postion.

## Legend

N.O.F.A. Normally Open Fire Alarm contacts supplied from the fire alarm system to initiate the shunt trip.

Shunt Trip Solenoid for remote trip of switch, which is activated by the closing of the fire alarm contacts or key test switch.
Option R1 Fire Safety Interface Relay that is operated at 120Vac from secondary of transformer. No additional power needed.
CR Control Relay used to isolate the N.O.F.A. contacts from the duty of the shunt trip.
FR Fire Alarm Voltage Monitoring Relay used to monitor presence of voltage in switch from a remote location (Fire Alarm Control Panel).
PL Pilot Light to visually indicate presence of voltage on outside of switch enclosure.
CPT Control Power Transformer used to step down line voltage to 120 Vac to power shunt trip coil.
SW Aux. Normally closed contact when switch is closed. Opens as power switch opens.
Key Test Key-to-Test switch used to operate shunt trip from the outside of switch enclosure. Can be used for trouble-shooting and inspection.
Mechanically Interlocked Auxiliary Contact - Contact used to disconnect secondary source of power.

- Terminal block connection point.
- Pre-wired connection point.


## Typical control with wiring options for fire safety interface (option R2)



## To connect the battery lowering for hydraulic elevator, connect to points NC and COM.

Note: Contacts for mechanically interlocked auxiliary contact are shown in the energized position.

## Legend

N.O.F.A. Normally Open Fire Alarm contacts supplied from the fire alarm system to initiate the shunt trip.

Shunt Trip Solenoid for remote trip of switch, which is activated by the closing of the fire alarm contacts or key test switch.
Option R2 Fire Safety Interface Relay that is operated at 24Vdc from fire alarm system. May require an additional power source to be needed.

CR Control Relay used to isolate the N.O.F.A. contacts from the duty of the shunt trip.
FR Fire Alarm Voltage Monitoring Relay used to monitor presence of voltage in switch from a remote location (i.e., Fire Alarm Control Panel).
PL Pilot Light to visually indicate presence of voltage on outside of switch enclosure.
CPT Control Power Transformer used to step down line voltage to 120 Vac to power shunt trip coil.
SW Aux. Normally closed contact when switch is closed. Opens as power switch opens.
Key Test Key-to-Test switch used to operate shunt trip from the outside of switch enclosure. Can be used for trouble-shooting and inspection.
Mechanically Interlocked Auxiliary Contact Contact used to disconnect secondary source of power.
■ Terminal block connection point.

- Pre-wired connection point.

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\end{tabular}


[^0]:    Each ACE will handle individual control power transformers and isolation relays for up to

[^1]:    * MLO standard, x-space does not affect brand x-space available.
    ** One ACE unit per four shunt trip module switches.
    *** See table.

