

Bussmann series Quik-Spec® Power Module switch elevator disconnect



Catalog symbol:

- PS_

Description:

The Bussmann™ series Quik-Spec® Power Module disconnect switch is an all-in-one elevator disconnect switch available in configurations to meet virtually any single elevator shutdown and disconnect requirement.

Specifications:

Ratings

- Volts - 208, 240, 480, 600 Vac
- Amps - 30, 60, 100, 200, 400
- SCCR - 200 kA RMS

Agency information

- UL® 98 enclosed and dead-front disconnect switch - Guide WIAx, WIAx7 (Canada), File E182262
- cULus, NEMA® 1, UL 50, Listed enclosure cUL per Canadian Standards C22.2, No. 0-M91-CAN/ CSA® C22.2, No. 4-M89 enclosed switch
- U.B.C. and C.B.C. seismic qualified, and I.B.C. approved

Features:

- 30-400 amp 600 Vac 3-phase fused power switch
- 200 kA RMS Short-Circuit Current Rating (SCCR)
- Shunt trip 120 Vac or 24 Vdc option
- Fire safety interface relay
- Fire alarm voltage monitoring relay (to monitor shunt trip voltage)
- Ground lug
- Class J fuse mounting only¹
- Mechanically interlocked auxiliary contacts for hydraulic elevators with battery backup (5 amp 120 Vac rated)

Options:

- Control power transformer with fuses and blocks
- Key to test switch
- Pilot light – “ON”
- Isolated neutral lug²
- NEMA 3R, 4, and 12 enclosures
- Type 1 Surge Protection Device (SPD) - 50 kA surge current capacity

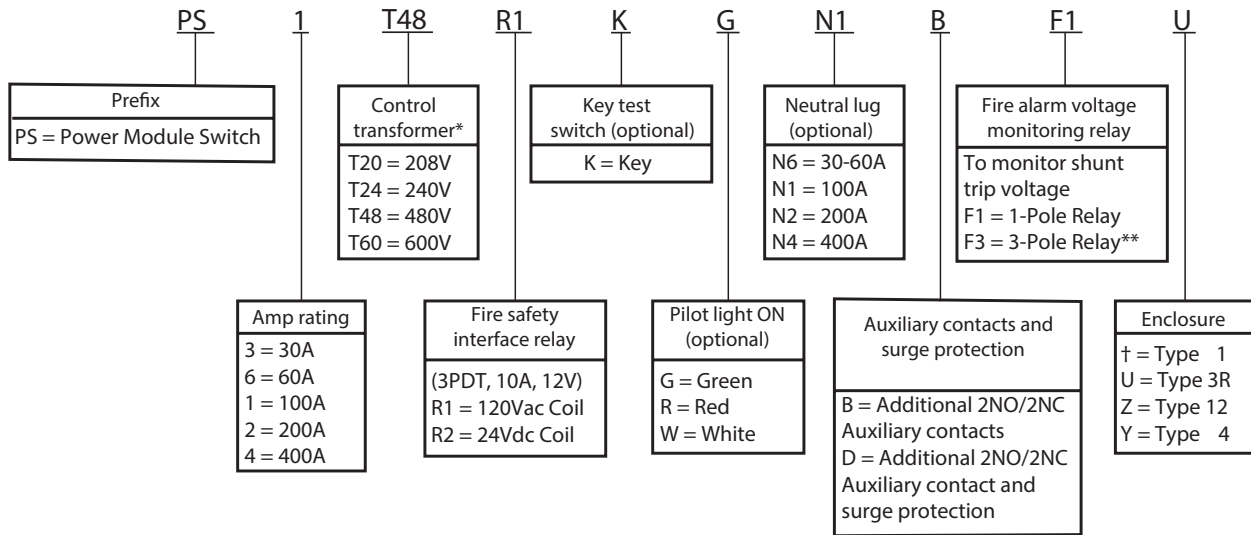
For added protection, use the Bussmann series SAMI™ fuse covers³ to improve electrical safety [OSHA 1910.335(A)(2)(iii)].
[See data sheet no. 1204.](#)

¹ Class J fuses not included.

² Oversized 200% rated neutral option available where required by excessive non-linear loads.

³ Covers available up to 100A.

Catalog number system:



* 100 VA with primary and secondary fusing (120 V secondary).

** For use only with R1 option.

† Type 1 standard, no suffix designator required.

Conductor data:

Lineside molded case switch connection (Al-Cu)						Loadside fuse block connection (Al-Cu)			
Cat. no. prefix	Amps	Conductor range	Torque		Screw head/ style	Conductor range	Torque		Screw head/ style
			Wire size	lb-in (N·m)			Wire size	lb-in (N·m)	
PS3	30	#14-1/0	#14-10	35 (3.9)	Slot HD	#14-2	#14-10	35 (3.9)	Slot HD
			#8	40 (4.5)			#8	40 (4.5)	
			#6-4	45 (5.1)			#6-2	45 (5.1)	
			#3-1/0	50 (5.6)					
PS6	60	#14-1/0	#14-10	35 (3.9)	Slot HD	#14-2	#14-10	35 (3.9)	Slot HD
			#8	40 (4.5)			#8	40 (4.5)	
			#6-4	45 (5.1)			#6-2	45 (5.1)	
			#3-1/0	50 (5.6)					
PS1	100	#14-1/0	#14-1/0	50 (5.6)	Slot HD	#14-1/0	#14-1/0	50 (5.6)	Slot HD
PS2	200	#4-4/0	#4-4/0	120 (13.5)	3/16" hex socket	#4-300kcmil	#4-300kcmil	275 (31.1)	5/16" hex socket
PS4	400	(2) #2-500kcmil	(2) #2-500kcmil	375 (42.4)	5/16" hex socket	(2) 1/0-300kcmil or (1) 750kcmil	(2) 1/0-300kcmil or (1) 750kcmil	500 (56.5)	3/8" hex socket

Conductor data:

Neutral mains connection (Al-Cu)					
Cat. no. prefix	Amps	Conductor range	Torque		
			Wire size	lb-in (N·m)	Screw head/style
PS3	30	#14-2	#14-10	35 (3.9)	Slot HD
			#8	40 (4.5)	
			#6-2	45 (5.1)	
PS6	60	#14-2	#14-10	35 (3.9)	Slot HD
			#8	40 (4.5)	
			#6-2	45 (5.1)	
PS1	100	#14-1/0	#14-1/0	50 (5.6)	Slot HD
PS2	200	#6-250kcmil	#6-250kcmil	275 (31.1)	5/16" hex socket
PS4	400	(2) 1/0-300kcmil or (1) 750kcmil	(2) 1/0-300kcmil or (1) 750kcmil	500 (56.5)	3/8" hex socket

Terminal block data:

Catalog no.	Wire range (Cu)	Torque lb-in (N·m)	Screw head/style
All	#22-#10	5.3-7 (0.6-0.8)	Slot

Switch maximum horsepower ratings:

Ratings are based on three-phase, motor type and time-delay fuses.

Voltage (Vac)	Switch amp rating				
	30A (PS3)	60A (PS6)	100A (PS1)	200A (PS2)	400A (PS4)
208	5	10	15	40	75
240	5	10	20	40	75
480	10	25	40	75	150
600	15	30	50	100	200

The above table can be used for estimating switch amp ratings for motor loads based upon the motor horsepower. For general applications, excluding wound rotor and DC motors, NEC® 430.52 allows sizing at 175% of motor Full Load Amps (FLA) or the next standard size per NEC 240.6. If sizing at 175% will not allow the motor to start, NEC 430.52 will allow the fuses to be sized up to 225% of motor full load amps or the next size down.

NOTE: In sizing the fuses, the motor FLA is per NEC table 430.250, not per motor nameplate information. Inrush currents of motors may vary, consult motor manufacturer data for correct sizing. On elevator applications, motor load plus auxiliary loads need to be considered. Follow elevator manufacturer's recommendation for correct fuse sizing.

Standard shunt trip ratings:

For 30-100 A, 200 A and 400 A Power Module Switches.

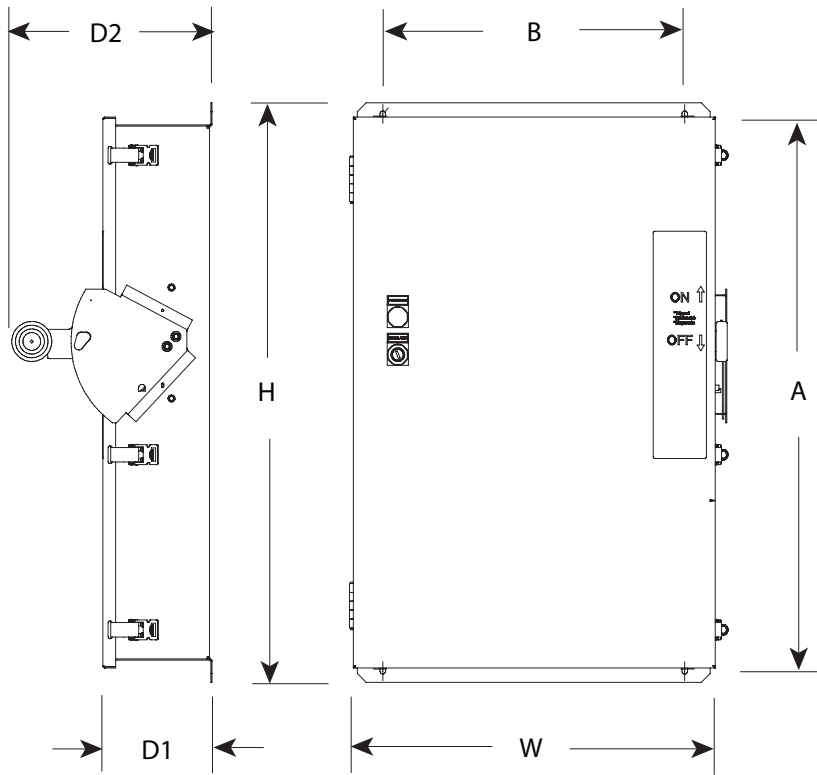
Voltage	Max inrush	Max ontime*	Momentary inrush
120 Vac, 60 Hz	4 amps	1.5 cycles	140 VA

* Will handle up to 447 VA inrush.

Dimensions — in (mm):

Catalog no. prefix	Amps	H	W	D1	D2	A	B
PS3	30						
PS6	60	29.6 (752)	17.3 (439)	6.9 (165)	11.2 (284)	28.4 (721)	10 (254)
PS1	100						
PS2	200	32.6 (828)	21.3 (541)	7.0 (178)	11.3 (287)	31.1 (790)	17 (432)
PS4*	400	54.6 (1387)	26.5 (673)	7.5 (190)	12.7 (323)	53.3 (1354)	22 (559)

* PS4 dimensions shown are for NEMA 1 enclosure only. Contact factory for availability of other enclosure ratings.



Power module switch shipping weights*

Switch catalog number family	Weight — lbs. (kgs)
PS1	58 (26.3)
PS2	76 (34.5)
PS3	58 (26.3)
PS4	198 (89.8)
PS6	58 (26.3)

* Weights for each catalog number family are average.

OPTIONS R1 & F1

Line Voltage

100 VA

120V

FU1 25A

NOFA

NOFAN

KEY TEST

OPTION K

CR

SHUNT TRIP

PL

PILOT LIGHT OPTION

N

Line

Load

Mech. Interlock Aux. Contact

Shunt Trip

Frequency: 60 Hz

Inrush: 570VA

NC

COM

AUXILIARY SWITCH LOGIC					
MAIN SWITCH POSITION	OPTION A NO	OPTION A NC	OPTION B NO	OPTION B NC	OPTION A **
CLOSED	O	C	O	C	O
TRIPPED	C	C	O	C	O
OPEN	C	O	C	O	C

* AUXILIARY SWITCH LOGIC WHEN BLUE WIRE WITH "+" MARKER IS REMOVED FROM NC TERMINAL

WHERE LOCAL AUTHORITIES HAVING JURISDICTION PERMIT, FIELD REMOVAL OF THE BLUE WIRE IDENTIFIED BY "+" MARKER WILL CHANGE THE OPTION A SWITCH LOGIC. SEE THE AUXILIARY SWITCH LOGIC TABLE. REMOVAL HAS THE EFFECT OF DISABLING THE BATTERY LOWERING DEVICE WHEN THE SWITCH IS IN THE TRIPLED POSITION. FIELD INSTALLER MUST ENSURE THIS MEETS ALL LOCAL CODES BEFORE REMOVAL.

NOTE: CONTACTS FOR FR ARE SHOWN IN DE-ENERGIZED POSITION, **COMMON CONNECTION WITHOUT OPTION B, CONNECTION FOR WHEN A SUPERVISORY SIGNAL IS REQUIRED WHEN THE MAIN SWITCH IS IN THE OPEN POSITION, OR WHEN THE MAIN SWITCH IS CLOSED AND CONTROL POWER IS LOST.

TO MONITOR THE VOLTAGE THE CONTROL WIRING TO MEET NFPA 72-2002 SECTION 6.15.4.4

The diagram illustrates the wiring for fire release (FR) contacts. It shows two main sections: 'VOLTAGE MONITORING' and 'FACP VOLTAGE MONITORING'. In the 'VOLTAGE MONITORING' section, there is a normally closed contact labeled 'FR' and a common contact labeled 'FR'. In the 'FACP VOLTAGE MONITORING' section, there is a normally open contact labeled 'NC FR', a common contact labeled 'COM FR', and a normally closed contact labeled 'NO FR'. A resistor labeled '**EOL' is connected between the common 'FR' contact and the 'COM FR' contact. The 'VOLTAGE MONITORING' contacts are connected to a common line that also branches to the 'NC FR' and 'COM FR' contacts. The 'NO FR' contact is connected to a common line that also branches to the 'COM FR' contact.

MECHANICAL INTERLOCK AUXILIARY CONTACT

TO CONNECT THE BATTERY LOWERING FOR HYDRAULIC LOWERING, CONNECT TO POINTS NC AND COM.

NOTE: MECHANICALLY INTERLOCKED AUXILIARY CONTACTS ARE SHOWN FOR THE MAIN SWITCH IN CLOSED POSITION.
REQUIRED FOR HYDRAULIC ELEVATORS WITH AUTO RECALL AND LOWERING TO MEET NEC 2005 SECTION 620.9 (c)

VOLTAGE MONITORING WITH OPTIONS F1 & B

WHEN OPTION B IS PRESENT, THIS CIRCUIT CAN BE USED TO MAINTAIN A NORMAL STATUS SIGNAL TO THE FACP.

NC FR

COM FR

NO FR

COM (B)

NO (B)

JUMPER, ORANGE, FACTORY INSTALLED

TYPICAL EOL RESISTOR CONNECTION

TO FACP

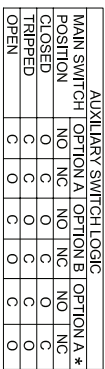
CONTACTS SHOWN FOR MAIN SWITCH OPEN, NORMAL STATUS

WHEN OPTION B IS PRESENT, IT IS FACTORY BONDED TO COM FR WITH AN ORANGE COLORED JUMPER TO BYPASS THE VOLTAGE SUPERVISORY SIGNAL WHEN THE SWITCH IS MOVED TO THE "OFF" POSITION. FIELD CONNECTION OF EOL RESISTOR IS REQUIRED BETWEEN NC FR AND NC B FOR THIS FEATURE TO FUNCTION. IF A SUPERVISORY SIGNAL IS REQUIRED WHEN THE SWITCH IS TURNED TO THE OFF POSITION, THE EOL RESISTOR MAY BE CONNECTED BETWEEN COM FR AND NC FR. REMOVAL OF THE JUMPER IS ALLOWED IF THE AUTHORITY HAVING JURISDICTION DOES NOT REQUIRE THIS FUNCTIONALITY.

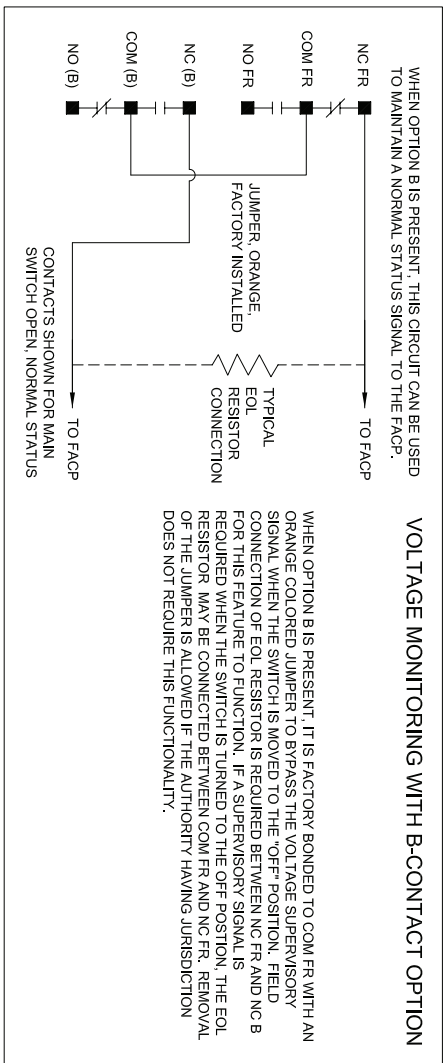
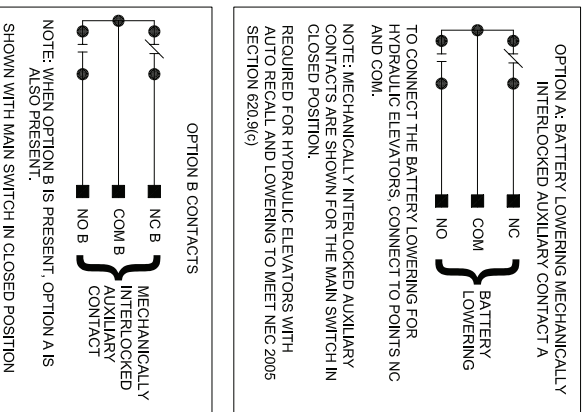
WHEN OPTED B IS PRESENT, IT IS FACTORY BOILED TO COM FR WITH AN ORANGE COLORED JUMPER TO BYPASS THE VOLTAGE SUPERVISORY SIGNAL, WHEN THE SWITCH IS MOVED TO THE "OFF" POSITION, FIELD CONNECTION OF EOL RESISTOR IS REQUIRED BETWEEN NC FR AND NC B. FOR THIS FEATURE TO FUNCTION, IF A SUPERVISORY SIGNAL IS REQUIRED WHEN THE SWITCH IS TURNED TO THE OFF POSITION, THE EOL RESISTOR MAY BE CONNECTED BETWEEN COM FR AND NC FR. REMOVAL OF THE JUMPER IS ALLOWED IF THE AUTHORITY HAVING JURISDICTION DOES NOT REQUIRE THIS FUNCTIONALITY.

FACP - FIRE ALARM CONTROL PANEL
NOFA - NORMALLY OPEN FIRE ALARM CONTROL INPUT
NOFA - NORMALLY OPEN FIRE ALARM CONTACTS SUPPLIED FROM THE FIRE ALARM SYSTEM TO INITIATE THE SHUNT TRIP
SHUNT TRIP - FUSED CIRCUIT FOR REMOTE TRIP OF SWITCH, WHICH IS ACTIVATED BY THE CLOSING OF THE FIRE ALARM CONTACTS OR KEY TEST SWITCH
SHUNT TRIP - FUSED CIRCUIT FOR REMOTE TRIP OF SWITCH, WHICH IS ACTIVATED BY THE CLOSING OF THE FIRE ALARM CONTACTS OR KEY TEST SWITCH
OF CONTROL RELAY USED TO ISOLATE THE V.O.F FROM THE TRANSFORMER, NO ADDITIONAL POWER NEEDED.
RP - FIRE ALARM VOLTAGE MONITORING RELAY USED TO MONITOR THE STATUS OF CONTROL VOLTAGE FROM A REMOTE LOCATION (i.e. FIRE ALARM CONTROL PANEL).
POT - PILOT LIGHT TO VISUALLY INDICATE PRESENCE OF VOLTAGE ON OUTSIDE OF SWITCH ENCLOSURE
POT - PILOT LIGHT TO VISUALLY INDICATE PRESENCE OF VOLTAGE ON OUTSIDE OF SWITCH ENCLOSURE
PT - CONTROL POWER TRANSFORMER USED TO STEP DOWN LINE VOLTAGE TO 120VAC TO POWER SHUNT TRIP COIL
SW AUX - OPTION A OR B, 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 DISABLE BATTERY LOWERING DEVICE.
- TERMINAL BLOCK CONNECTION POINT.
- PRE-WIRED CONNECTION POINTS.

OPTIONS R1 & F3



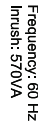
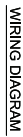
* AUXILIARY SWITCH LOGIC WHEN BLUE W
WITH "+" MARKER IS REMOVED FROM NC
TERMINAL



LEGEND:

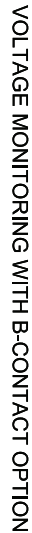
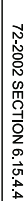
- FACP - FIRE ALARM CONTROL PANEL
- NOFAP - **NORMALLY OPEN FIRE ALARM CONTROL INPUT**
- SHUNT TRIP - SENSORED FOR REMOTE TRIP OF SWITCH WHICH IS ACTIVATED BY THE CLOSING OF THE FIRE ALARM CONTACTS OR KEY TEST SWITCH.
- OPTION R1 - FIRE ALARM INTERFACE RELAY THAT IS OPERATED AT 120VAC FROM SECONDARY OF TRANSFORMER. NO ADDITIONAL POWER NEEDED.
- CR - CONTROL RELAY USED TO ISOLATE THE N.O.F.A. CONTACTS FROM THE STATUS OF THE SHUNT TRIP
- FR - FIRE ALARM VOLTAGE MONITORING RELAY USED TO MONITOR THE STATUS OF CONTROL VOLTAGE FROM A REMOTE LOCATION (i.e. FIRE ALARM CONTROL PANEL).
- PL - PILOT LIGHT TO VISUALLY INDICATE PRESENCE OF VOLTAGE ON OUTSIDE OF SWITCH ENCLOSURE.
- OPT - CONTROL POWER TRANSFORMER USED TO STEP DOWN LINE VOLTAGE TO 120VAC TO POWER SHUNT TRIP COIL.
- SW AUX. - OPTION A OR B. 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 DISABLE BATTERY LOWERING DEVICE.
- TERMINAL BLOCK CONNECTION POINT.
- PRE-WIRED CONNECTION POINTS.

OPTION R2 & F1



* AUXILIARY SWITCH LOGIC WHEN BLUE WIRE WITH "+" MARKER IS REMOVED FROM NC TERMINAL

WHERE LOCAL AUTHORITIES HAVING JURISDICTION PERMIT, FIELD REMOVAL OF THE BLUE WIRE IDENTIFIED BY "*" MARKER WILL CHANGE THE OPTION A SWITCH LOGIC. SEE THE AUXILIARY SWITCH-LOGIC TABLE. REMOVAL HAS THE EFFECT OF DISABLING THE BATTERY LOWERING DEVICE WHEN THE SWITCH IS IN THE TRIPPED POSITION, FIELD INSTALLER MUST ENSURE THIS MEETS ALL LOCAL CODES BEFORE REMOVAL.



WHEN OPTIO B IS PRESENT, IT IS FACTORY BOUNDED TO COM FR WITH AN ORANGE COLORED JUMPER TO BYPASS THE VOLTAGE SUPERVISORY SIGNAL, WHEN THE SWITCH IS MOVED TO THE 'OFF' POSITION, FIELD CONNECTION OF EOL RESISTOR IS REQUIRED BETWEEN NC FR AND NC B FOR THIS FEATURE TO FUNCTION, IF A SUPERVISORY SIGNAL IS REQUIRED WHEN THE SWITCH IS TURNED TO THE OFF POSITION, THE EOL RESISTOR MAY BE CONNECTED BETWEEN COM FR AND NC FR, REMOVAL OF THE JUMPER IS ALLOWED IF THE AUTHORITY HAVING JURISDICTION DOES NOT REQUIRE THIS FUNCTIONALITY.

LEGEND:

FACP - FIRE ALARM CONTROL PANEL
NORMALLY OPEN FIRE ALARM

NOFAIN - NORMALLY OPEN FIRE ALARM CONTROL INPUT.
NOFA - NORMALLY OPEN FIRE ALARM CONTACTS SUBROUTINE

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 ALARM INTERFACE RELAY THAT IS OPERATED AT 120VAC FROM SECONDARY OF TRANSFORMER. NO ADDITIONAL POWER NEEDED. CONTROL RELAY USED TO ISOLATE THE NO C/A CONTACTS FROM THE DUTY OF THE CIRCUIT TRIP

CR - CONTROL RELAY USED TO ISOLATE THE N.C.F.A. CONTROLS FROM THE BODY OF THE SHUNT TRIP.

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 120VAC TO POWER SHUNT TRIP COIL.

KEY TEST - KEY-TO-TEST SWITCH USED TO OPERATE SHUNT TRIP FROM THE OUTSIDE OF SWITCH ENCLOSURE CAN BE USED FOR TROUBLESHOOTING AND INSPECTION

MECHANICALLY INTERLOCKED AUXILIARY CONTACT - CONTACT USED TO DISABLE BATTERY LOWERING DEVICE.

- TERMINAL BLOCK CONNECTION POINT.

- PRE-WIRED CONNECTION POINTS.

NOTE: TERMINAL 1 IS NOT PRESENT WHEN OPTION K IS ABSENT.

Integrated surge protection for the Bussmann series power module switch

Feature:

Optional Surge Protective Device

Function:

Over-voltage transient surge suppression for additional system protection.

Benefit:

Eaton's Bussmann series Quik-Spec Power Module disconnect switch offers a fully integrated surge protection solution that is designed to comply with NEC 620.51. Along with meeting code requirements, the integration of this surge protection device yields additional benefits such as:

- **Space efficiency:** An integrated SPD opens up space previously taken by a separate SPD unit.
- **Simplified installation:** Eliminates the time and labor required to install a separate SPD unit.
- **Reduced material costs:** Integrated SPDs can lower the overall material costs by reducing the need for extra enclosures, conduits, and wiring.
- **Enhanced protection:** Shorter wire leads result in lower let-through voltages, offering better protection for sensitive electronic equipment.
- **Aesthetics:** Integrated SPDs units provide a cleaner, more organized appearance within electrical panels.



Surge protective device specifications

Description	Ratings
Surge current capacity per phase	50 kA
Nominal discharge current (I_n)	20 kA for 240S, 208Y, 480Y, 240D and 480D 10 kA for 600Y and 600D
Short-circuit current rating (SCCR)	200 kA
SPD type	Type 1 (can also be used in Type 2 applications)
System voltages available (Vac)	
Single split-phase	120/240
Three-phase wye	120/208, 277/480, 347/600
Three-phase delta	240, 480, 600
Protection modes	
Single split-phase and three-phase wye	L-N, L-L
Three-phase delta	L-G, L-L
Maximum continuous operating voltage (MCOV)	
240V straight and 208V wye	150 L-N, 300 L-L
480V wye	320 L-N, 640 L-G
600V wye	420 L-N, 840 L-G
240V delta	300 L-G, 300 L-L
480V delta	640 L-G, 640 L-L
600V delta	840 L-G, 840 L-L
Input power frequency	50/60 Hz
Enclosure rating	NEMA® 4
Operating temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Operating humidity	5–95%, noncondensing
Operating altitude	Up to 16,000 ft (5000 m)
Agency certification and approvals	UL 1449 5th Edition
Warranty	2 years

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