

PIN & SLEEVE DEVICES

Product Selection Guide

North American Watertight

D-153-157	D-148-152	Amps	Volts	Pg. D-73-77	Pg. D-78-82	Pg. D-85-86				Pg. D-85-86	
Fusible Safety Switches	Non-Fusible Safety Switches			Fusible Mech. Interlock	Non-Fusible Mech. Interlock	Plug	Receptacle	Connector	Inlet	Metallic Back Box	Non-Metallic Back Box
N/A	N/A	20	120VAC			PS320P4W	PS320R4W	PS320C4W		PSBB201W	PSBBN201W
			240VAC			PS320P6W	PS320R6W	PS320C6W		PSBB201W	PSBBN201W
			480VAC			PS320P7W	PS320R7W	PS320C7W		PSBB201W	PSBBN201W
			277VAC			PS320P5W	PS320R5W	PS320C5W		PSBB201W	PSBBN201W
			120/240VAC	PS420FMIR12W	PS420MIR12W	PS420P12W	PS420R12W	PS420C12W		PSBB202W	PSBBN202W
			3ø 240VAC	PS420FMIR9W	PS420MIR9W	PS420P9W	PS420R9W	PS420C9W		PSBB202W	PSBBN202W
			3ø 480VAC	PS420FMIR7W	PS420MIR7W	PS420P7W	PS420R7W	PS420C7W		PSBB202W	PSBBN202W
			3ø 600VAC	PS420FMIR5W	PS420MIR5W	PS420P5W	PS420R5W	PS420C5W		PSBB202W	PSBBN202W
			3øY 120/208VAC			PS520P9W	PS520R9W	PS520C9W		PSBB202W	PSBBN202W
			3øY 277/480VAC			PS520P7W	PS520R7W	PS520C7W		PSBB202W	PSBBN202W
			3øY 347/600VAC			PS520P5W	PS520R5W	PS520C5W		PSBB202W	PSBBN202W
PS30FSS	PS30SS	30	120VAC		PS330MIR4W	PS330P4W	PS330R4W	PS330C4W		PSBB301W	PSBBN301W
			240VAC	PS330FMIR6W		PS330P6W	PS330R6W	PS330C6W		PSBB301W	PSBBN301W
			480VAC			PS330P7W	PS330R7W	PS330C7W		PSBB301W	PSBBN301W
			120/240VAC	PS430FMIR12W		PS430P12W	PS430R12W	PS430C12W		PSBB301W	PSBBN301W
			3ø 240VAC	PS430FMIR9W	PS430MIR9W	PS430P9W	PS430R9W	PS430C9W		PSBB301W	PSBBN301W
			3ø 480VAC	PS430FMIR7W	PS430MIR7W	PS430P7W	PS430R7W	PS430C7W		PSBB301W	PSBBN301W
			3ø 600VAC	PS430FMIR5W	PS430MIR5W	PS430P5W	PS430R5W	PS430C5W		PSBB301W	PSBBN301W
			380/440 VAC	PS430FMIR3W	PS430MIR3W	PS430P3W	PS430R3W	PS430C3W		PSBB301W	PSBBN301W
			3øY 120/208VAC	PS530FMIR9W	PS530MIR9W	PS530P9W	PS530R9W	PS530C9W		PSBB301W	PSBBN301W
			3øY 277/480VAC	PS530FMIR7W	PS530MIR7W	PS530P7W	PS530R7W	PS530C7W		PSBB301W	PSBBN301W
			3øY 347/600VAC		PS530MIR5W	PS530P5W	PS530R5W	PS530C5W		PSBB301W	PSBBN301W
PS60FSS	PS60SS	60	120VAC			PS360P4W	PS360R4W	PS360C4W	PS360B4W	PSBB601W	PSBBN601W
			240VAC	PS360FMIR6W	PS360MIR6W	PS360P6W	PS360R6W	PS360C6W	PS360B6W	PSBB601W	PSBBN601W
			480VAC		PS360MIR7W	PS360P7W	PS360R7W	PS360C7W	PS360B7W	PSBB601W	PSBBN601W
			120/240VAC	PS460FMIR12W	PS460MIR12W	PS460P12W	PS460R12W	PS460C12W	PS460B12W	PSBB601W	PSBBN601W
			3ø 240VAC	PS460FMIR9W	PS460MIR9W	PS460P9W	PS460R9W	PS460C9W	PS460B9W	PSBB601W	PSBBN601W
			3ø 480VAC	PS460FMIR7W	PS460MIR7W	PS460P7W	PS460R7W	PS460C7W	PS460B7W	PSBB601W	PSBBN601W
			3ø 600VAC	PS460FMIR5W	PS460MIR5W	PS460P5W	PS460R5W	PS460C5W	PS460B5W	PSBB601W	PSBBN601W
			3øY 120/208VAC	PS560FMIR9W	PS560MIR9W	PS560P9W	PS560R9W	PS560C9W	PS560B9W	PSBB601W	PSBBN601W
			3øY 277/480VAC	PS560FMIR7W	PS560MIR7W	PS560P7W	PS560R7W	PS560C7W	PS560B7W	PSBB601W	PSBBN601W
			3øY 347/600VAC	PS560FMIR5W	PS560MIR5W	PS560P5W	PS560R5W	PS560C5W	PS560B5W	PSBB601W	PSBBN601W
PS100FSS	PS100SS	100	120VAC		PS3100MIR4W	PS3100P4W	PS3100R4W	PS3100C4W	PS3100B4W	PSBB1001W	
			240VAC		PS3100MIR6W	PS3100P6W	PS3100R6W	PS3100C6W	PS3100B6W	PSBB1001W	
			480VAC		PS3100MIR7W	PS3100P7W	PS3100R7W	PS3100C7W	PS3100B7W	PSBB1001W	
			120/240VAC	PS4100FMIR12W	PS4100MIR12W	PS4100P12W	PS4100R12W	PS4100C12W	PS4100B12W	PSBB1001W	
			3ø 240VAC	PS4100FMIR9W	PS4100MIR9W	PS4100P9W	PS4100R9W	PS4100C9W	PS4100B9W	PSBB1001W	
			3ø 480VAC	PS4100FMIR7W	PS4100MIR7W	PS4100P7W	PS4100R7W	PS4100C7W	PS4100B7W	PSBB1001W	
			3ø 600VAC	PS4100FMIR5W	PS4100MIR5W	PS4100P5W	PS4100R5W	PS4100C5W	PS4100B5W	PSBB1001W	
			3øY 120/208VAC	PS5100FMIR9W	PS5100MIR9W	PS5100P9W	PS5100R9W	PS5100C9W	PS5100B9W	PSBB1001W	
			3øY 277/480VAC	PS5100FMIR7W	PS5100MIR7W	PS5100P7W	PS5100R7W	PS5100C7W	PS5100B7W	PSBB1001W	
			3øY 347/600VAC	PS5100FMIR5W	PS5100MIR5W	PS5100P5W	PS5100R5W	PS5100C5W	PS5100B5W	PSBB1001W	

SWITCH DISCONNECTS & MANUAL MOTOR CONTROLLERS



P&S Safety Switches and Manual Motor Controllers provide maximum durability and minimum downtime in difficult industrial environments. P&S Fusible Safety Switches were the first with visible indication of a blown fuse, allowing for quick identification and replacement. All safety switches are constructed to provide maximum protection against water, dirt, heat and vibration – and just about anything else you can throw at it. See how P&S switches and controllers can help your plant or facility.



SWITCH DISCONNECTS

Non-Fusible Safety Switches	D-148
Fusible Safety Switches	D-153
Stainless Steel Safety Switches	D-158
Slope Top Stainless Steel Switches	D-161
Non-Metallic Safety Switches	D-164



MANUAL CONTROLLERS

30 Amp	D-167
40 Amp	D-168
60 Amp	D-169
Maintained & Momentary Contact	D-170

SWITCH DISCONNECTS & MANUAL MOTOR CONTROLLERS

Non-Fusible Safety Switches



Non-Fusible Safety Switches UL Listed as “Suitable as Motor Disconnect.”

Here's the first non-metallic NEMA 4X Non-Fusible Safety Switch line UL Listed as “Suitable as Motor Disconnect” — per NEC® Article 430.109(A)(6).

P&S Non-Fusible Safety Switches feature extra-tough components, including an impact-resistant Valox® NEMA 4X enclosure. And an innovative design that delivers safe, sure operation under the worst conditions. These rugged performers are available in capacities from 30 to 100 amps. And when you take a closer look, you'll see even more to like. For example, the fits-anywhere compact design. The adjustable mounting feet that speed installation. Or the no-confusion, at-a-glance ON/OFF status indication. See how P&S Non-Fusible Safety Switches work better for you.

SWITCH DISCONNECTS & MANUAL MOTOR CONTROLLERS

Non-Fusible Safety Switches

A. Compact design fits in most I-beams to provide mounting versatility, easy access, and reduced possibility of impact damage.

B. Nonconductive, watertight, corrosion-, heat-, and impact-resistant thermoplastic enclosure ensures NEMA 4X and 12 ratings. Withstands the harshest industrial environments.

C. Corrosion-resistant, stainless steel captive screws speed installation, minimize risk of lost parts, and withstand abuse.

D. Adjustable mounting feet can be moved to center of unit for instant strut- or pole-mounting without special brackets or harnesses.

E. Durable, stainless steel cover-retaining chain makes installation and maintenance more convenient.

F. Heavy-duty, ergonomic switch handle meets OSHA Lockout/Tagout provisions and provides plenty of grip for sure, easy operation. Black/red color coding and high-visibility ON/OFF markings clearly indicate status from a distance and at any visual angle. Switch entry into the enclosure is offset to the side and sealed to provide enhanced water resistance.

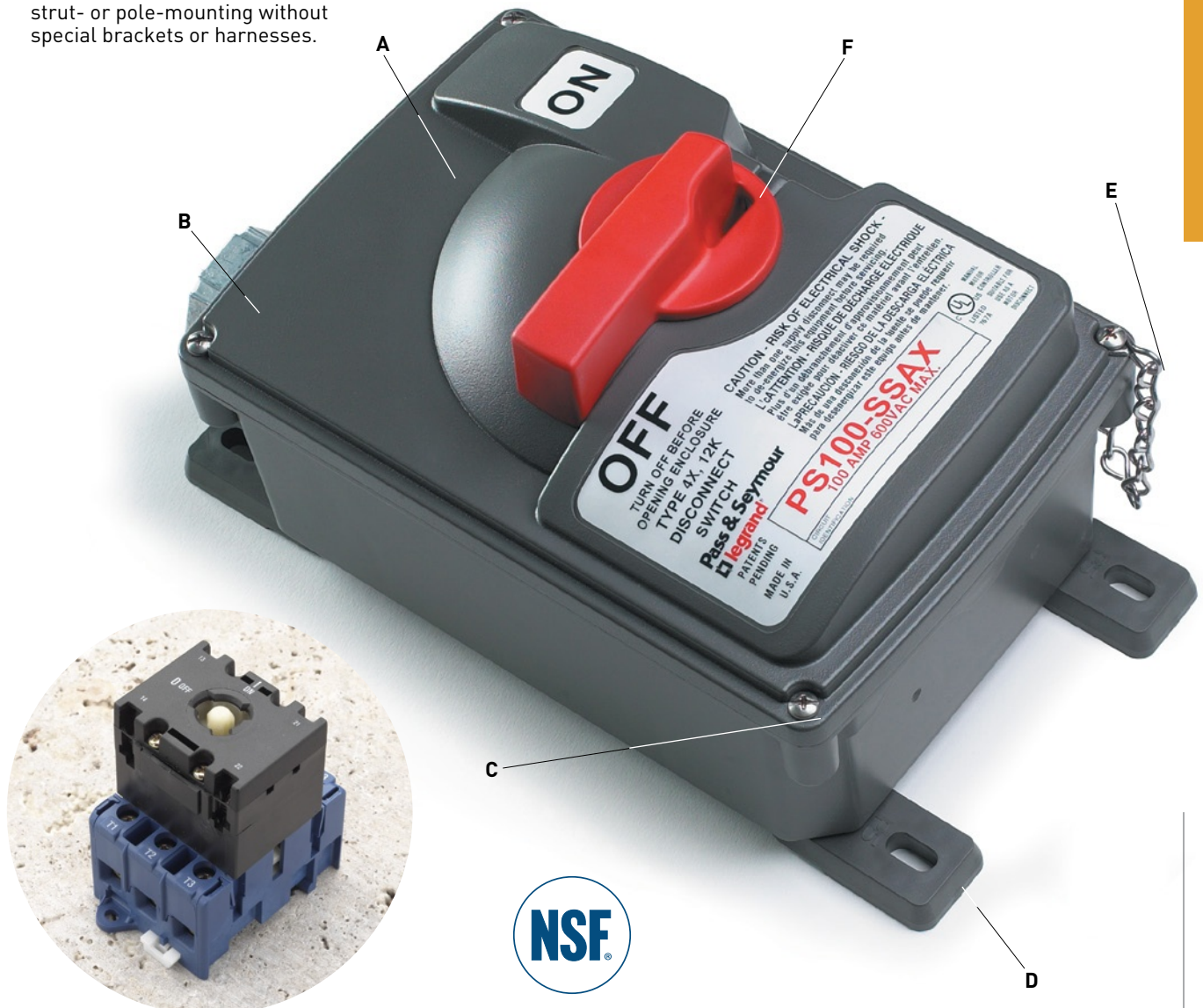
Bottom and top wiring access options. No unnecessary openings to compromise water resistance.

Top mount auxiliary contact enables additional control functions or signal lights.

Now certified for IP69 applications.

VFD Friendly – auxiliary contacts break before switch contacts break for use with VFD.

Conforms to the requirements of NSF/ANSI/3-A 14159-1 – Hygiene Requirements for the Design of Meat and Poultry Processing Equipment.



SWITCH DISCONNECTS & MANUAL MOTOR CONTROLLERS

Non-Fusible Safety Switches Ordering Information

VOLTAGE	MAXIMUM HORSEPOWER RATING	NON-FUSIBLE SAFETY SWITCH CATALOG #	NON-FUSIBLE SAFETY SWITCH WITH AUXILIARY CONTACT** CATALOG #	NON-FUSIBLE SAFETY SWITCH WITH 3 AUXILIARY CONTACTS**	AUXILIARY CONTACT KIT*	REPLACEMENT SWITCH	REPLACEMENT SWITCH WITH AUXILIARY CONTACT	REPLACEMENT SWITCH WITH 3 AUXILIARY CONTACTS	REPLACEMENT COVER FOR STANDARD SWITCH	REPLACEMENT COVER FOR AUXILIARY TYPE
30 AMPS	600VAC									
120VAC	1 HP	PS30SS	PS30SSAX	PS30SSAX3	AX30	RS30	PS30RSAX	RS30AX3	PS30SSRC	PS30SSAXRC
208VAC	2 HP									
240VAC	5 HP									
277VAC	3 HP									
480VAC	5 HP									
600VAC	5 HP									
3ø 240VAC	10 HP									
3ø 480VAC	20 HP									
3ø 600VAC	25 HP									
60 AMPS	600VAC									
120VAC	3 HP	PS60SS	PS60SSAX	PS60SSAX3	AX60	RS60HP	RS60HPAX		PS60SSRC	PS60SSAXRC
240VAC	10 HP									
277VAC	15 HP									
480VAC	20 HP									
600VAC	30 HP									
3ø 240VAC	25 HP									
3ø 480VAC	50 HP									
3ø 600VAC	50 HP									
100 AMPS	600VAC									
120VAC	5 HP	PS100SS	PS100SSAX	PS100SSAX3	AX60	RS100	RS100AX		PS100SSRC	PS100SSAXRC
240VAC	15 HP									
277VAC	15 HP									
480VAC	30 HP									
600VAC	30 HP									
3ø 240VAC	25 HP									
3ø 480VAC	50 HP									
3ø 600VAC	50 HP									

* For replacement of side mount auxiliary contact on previous design.

**Auxiliary contacts break before switch contacts break for use with VFD.

Mounting Feet Replacement Kit

CATALOG NUMBER	DESCRIPTION
SSMF	Mounting Feet Replacement Kit for PS30SS and PS30SSAX
SSMF2	Mounting Feet Replacement Kit for PS60/100A Switches



RS30



AX30

SWITCH DISCONNECTS & MANUAL MOTOR CONTROLLERS

Non-Fusible Safety Switches Materials of Manufacture Typical/Sample Spec

Typical Specifications

- Manufacturer's Identification PS60SS
- Description: Non-Fusible Safety Switch
- Rating: 60A, 600VAC maximum
- Enclosure Type: NEMA 4X (watertight, hosedown), 12K (dust-tight, falling dirt), IP67/IP69 suitability
- Conduit Location: Top, bottom, or back feed. Units are shipped without holes for conduit. Spot drills for locating hole saw or knockouts are provided for top, bottom, or back feed. End user decides at installation whether top, bottom, or back feed is appropriate. No closure plug kits required. Units are not provided with conduit hubs.

MATERIALS

Enclosure Cover	Valox 357®
Enclosure Base	Valox 357®
Enclosure Gasket	Neoprene
Switch Handle	Valox 357®
Switch Handle Seal	Neoprene
Switch Key	10% Glass-Filled Nylon
Mounting Feet	Valox 357®
Mounting Feet Screws	300 Series Stainless Steel
Enclosure Assembly Screws	300 Series Stainless Steel
Enclosure Assembly Inserts	Brass (60 and 100 amp units only)
Grounding Plate	Galvanized Steel
Cover Chain	300 Series Stainless Steel

PERFORMANCE

Electrical:

Dielectric Voltage Withstand	3000V minimum
Maximum Working Voltage	600V RMS
Current Interrupting	Listed for current interrupting at full-rated current and voltage
Short Circuit Withstand Rating	For use on circuit capable of delivering not more than (see chart below) RMS amps at 600VAC
Operations	Mechanical: 15,000 cycles Electrical: 10,000 cycles
Auxiliary Contacts (optional)	10A @ 600VAC 1 N.O. & 1 N.C.

Mechanical:

Impact Resistance	Per UL746C
Terminal Identification	Per UL and CSA
Product Identification	Identification and rating on external and internal labels
Mounting	External adjustable feet with five (5) positions Can be mounted directly to channel or strut (no washers required)

Environmental:

Moisture Resistance	Per UL50, section 35, NEMA Enclosure Type 4X (watertight, hosedown) Per UL50, section 35, NEMA Enclosure Type 12 (dusttight, falling dirt) • IP66/67/69
Flammability	UL94 5VA and VO Classification
Operating Temperature	Maximum continuous: +60°C • Minimum continuous: -50°C without impact
UV Resistance	All enclosure materials are UV stable

Interrupting Ratings — RMS Symmetrical Amperes

Short Circuit Ratings: Suitable for use on circuits capable of delivering not more than (see chart below for cat. no. and application) RMS symmetrical amperes, 600VAC maximum.

CATALOG NUMBER	kA	FUSE/BREAKER	MAX SIZE
PS30SS (AX)	10	RK1	—
	65	Class J	40A
PS60SS (AX) PS100SS (AX)	10	RK1	—
	65	GE Circuit Breaker Class J	100A

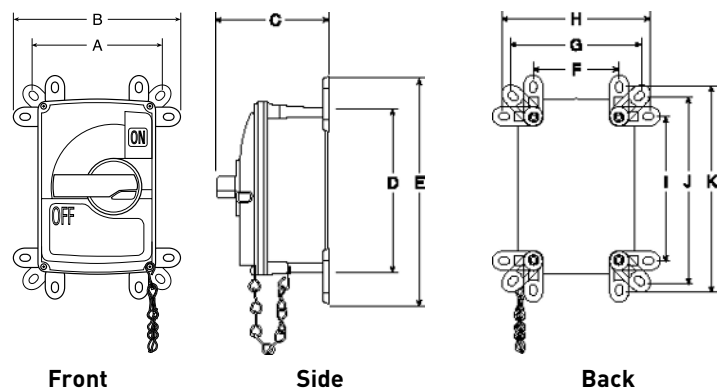
SWITCH DISCONNECTS & MANUAL MOTOR CONTROLLERS

Non-Fusible Safety Switches Dimensions

Non-Fusible Safety Switches Dimensions

Amps	A	B	C	D	E	F	G	H	I	J	K
30	5.75	7.38	4.88	7.19	9.69	3.75	5.75	6.56	6.13	8.06	8.88
60	7.19	9.13	6.31	9.63	12.38	4.75	7.19	8.13	8.00	10.38	11.38
100	7.19	9.13	6.31	9.63	12.38	4.75	7.19	8.13	8.00	10.38	11.38

All measurements shown in inches.



[See dimensions above.]