X-Switch motor controllers & disconnect switches

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Туре:



AHDS30SSR



AHDS30SSR (Inside)

Product description

3-pole, 3-phase NEMA 4X, 12 & IP66, IP69K 30A, 60A or 100A, 600V/AC max.

Design features

- Compact NEMA 4X, NEMA 12, IP66 & IP69K rated, stainless steel enclosure is ideal for washdown environments
- NSF Listed for food processing areas
- Sloped enclosure enhances wash down & water run off
- High-visibility red handle can be padlocked to meet OSHA lockout/tagout requirements
- Retained, Tri-Combo screws for easy access
- Mounting feet provide full 1/4" clearance from mounting surface
- Optional breather drain prevents interior condensation buildup
- Expanded silicone gasket for superior ingress protection and easy cleaning
- · Heavy-duty rotary disconnect switches designed for long life
- · Auxiliary contacts are available for PLC or VFD applications
- Enclosure assembly made of 316L stainless steel for increased corrosion resistance

Table 1. Common X-Switch Configurations

Catalog No.	Description	Amp
□ AHDS30SSR	Motor Control Disconnect X-Switch, NEMA 4X	30
AHDS60SSR	Motor Control Disconnect X-Switch, NEMA 4X	60
AHDS100SSR	Motor Control Disconnect X-Switch, NEMA 4X	100
AHDS30RS	Replacement switch	30
AHDS60RS	Replacement switch	60
AHDS100RS	Replacement switch	100
AHDS30RAC	Aux contact - PLC	30
AHDS30RVFD	Aux contact - VFD	30
AHDS60RAC	Aux contact - PLC	60
AHDS60RVFD	Aux contact - VFD	60
AHDS100RAC	Aux contact - PLC	100
AHDS100RVFD	Aux contact - VFD	100
AHDS30CH	X-Switch Conduit Hub, Size 3/4"	For 30A Enclosure
AHDS60CH	X-Switch Conduit Hub, Size 1-1/4"	For 60A Enclosure
AHDS100CH	X-Switch Conduit Hub, Size 2"	For 100A Enclosure
□ AHDSBD	Breather Drain IP69K rated	—
AHDS30RTCASSR	Replacement top cover assembly	For 30A Enclosure
□ AHDS61RTCASSR	Replacement top cover assembly	For 60/100A Enclosure



Compliances, specifications and availability are subject to change without notice.

Technical Data Effective September 2018

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Table 2. Max Horse Power Ratings

Voltage	30A	60A	100A
1Ø 120 VAC	1.5	3	5
1Ø 220 - 240 VAC	5	7.5	15
1Ø 277 VAC	5	7.5	15
1Ø 440 - 480 VAC	7.5	15	30
3Ø 220 - 240 VAC	10	15	25
3Ø 440 - 480 VAC	20	30	50
3Ø 600 VAC	25	40	50

Applications

The X-Switch is designed specifically for industrial manufacturing applications exposed to frequent washdown. It uses a UL 508 motor disconnect "suitable as motor disconnect" to comply with requirements of NEC® 430. The X-Switch is ideal for food processing, storage and service. Applications include meat and poultry processing, dairy, bottling, bakeries, distilleries and commercial kitchens. The X-Switch also ideal for harsh environments such as mining, wastewater treatment, testing labs and heavy industrial manufacturing. The X-Switch enclosure is specially designed to prevent the penetration of external contaminants while delivering dependable motor control. A variety of options including breather drains and auxiliary contacts for PLC & VFD provide for maximum flexibility.

Table 3. Specifications

Device Type	30A , 60A & 100A X-Switch motor controllers & disconnects		
Testing & code compliance	 cULus Listed to UL 508, file no. E135083 NSF evaluated for use in hose-down areas and to NSF/ANSI/3-A Standard 14159-1 Hygiene Requirements for the design of meat and poultry processing equipment 		
Environmental specifications	Flammability: Meets UL 94 requirements; rated 94-5V Protection: Type 4X, 12 & IP66, IP69K		
Electrical specifications	Maximum continuous current: 30A, 60A, 100A Endurance, mechanical: 10,000 cycles minimum Endurance, electrical: 6,000 cycles minimum Short cuircuit current rating (SCCR): Rated up to 65kA RMS symmetrical amps, see chart Motor loads: Horsepower rated per UL 508, see chart #2		
Mechanical Specifications	Terminal accommodation: (30A) #10 AWG; (60A) #6 AWG; (100A) #1/0 AWG Voltage ratings: Permanently marked on device		

Table 4. Materials

Device Type	30A , 60A & 100A X-Switch motor controllers & disconnects	
Enclosure - body	14 gauge type 316L stainless steel	
Mounting feet	11 gauge type 316L stainless steel	
Enclosure handle	Red nylon thermoplastic	
Enclosure - screws	Captivated tri-Combo	
Lock-out/tag-out bracket	Polycarbonate/Polybutylene Cerephthalate (PC/PBT)	
Enclosure gasket	Expanded silicone	

Table 5. Equipment materials

Device Type	30A , 60A & 100A X-Switch motor controllers & disconnects	
Breather drain material	Type 304 stainless steel	
Breather drain gasket	Expanded silicone rubber	

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Short Circuit Current Ratings

when protected with 70A class J fuses

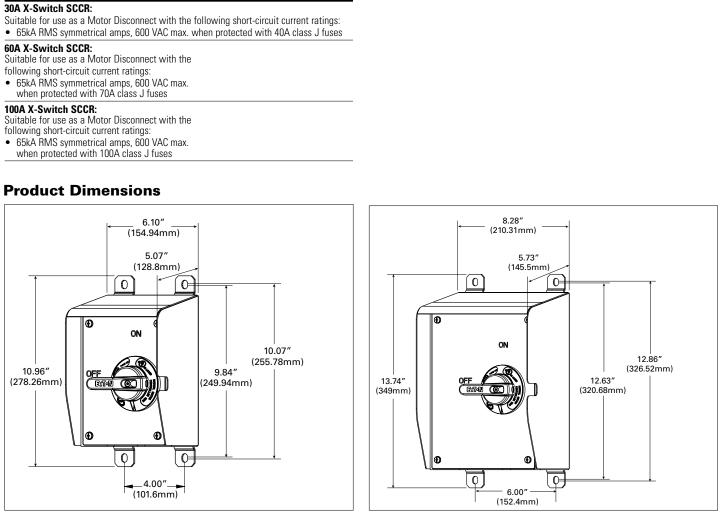


Figure 1. AHDS30SSR Dimensions

Figure 2. AHDS60SSR and AHDS100SSR Dimensions

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Certifications & Compliances

Catalog No.	շանու	NSF
AHDS30SSR	•	•
AHDS60SSR	•	•
AHDS100SSR	•	•
AHDS30RS	•	
AHDS60RS	•	
AHDS100RS	•	
AHDS30RAC	•	
AHDS30RVFD	•	
AHDS60RAC	•	
AHDS60RVFD	•	
AHDS100RAC	•	
AHDS100RVFD	•	
AHDS30CH	•	
AHDS60CH	•	
AHDS100CH	•	
AHDSBD	•	
AHDS30RTCASSR		
AHDS61RTCASSR		
KEY: ₀⊕ ∞ cULus	NSF	NSF

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