

80A Explosion Proof Fused Disconnect - 600V Rated - Time Delay Fuse - (3) 80A Fuses - (2) NPT Hubs - IEC EX / ATEX Rated

EPFDS-AEC-80A-3P-3X80A.600V-TD

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



EPFDS-AEC-80A-3P-3X80A.600V-TD Explosion Proof Disconnect Switch/Breaker

Unit Type: Explosion Proof Fused Disconnect

Dimensions: 12" x 18" x 8"

Weight: 130 lb

Rated Voltage: 600 V AC

Configuration: 3-Pole

Amps: 80 A (Maximum)

Fuses: Included

Fuse Type: Time Delay Fuse

Time Delay: 10 Seconds (Minimum) @ 500% Overload

Fuse Qty: (3) 80 A 3P [600 V]

Materials: Copper-Free Aluminum

Hardware Materials: Stainless Steel

Finish: Aluminum Lacquer Paint Finish

Mounting: Wall/Surface Mount

Wire Size: #14-2/0

Hub Qty: 2

Hub Sizes/Locations: (1) 2" NPT @ Top, (1) 0.5" NPT @ Bottom

All grounding shall comply with state and local codes and meet the minimum requirements of the National Electronic Code section 250

Features/Ratings

Class I, Divisions 1 & 2 Groups B,C,D

Class I, Zones 1 & 2 Groups IIB+ H2,IIA

Class II Divisions 1 & 2 Groups E,F,G

Class III

NEMA 3,4,4X,7(B,C,D),9(E,F,G)

CENELEC/ATEX/IEC Ex

Ex d IIB + H2 T5 or T6

Ex tD A21 IP66

Tamb + 60°C

NRTL Listed to UL 1203

Special Orders - Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-214-616-6180

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The EPFDS-AEC-80A-3P-3X80A.600V-TD from Larson Electronics is an Explosion Proof Disconnect Switch that is designed for use in Class I, II and III environments as well as IEC EX / ATEX rated combustible facilities. Equipped with time-delay fuses, this 3-pole unit contains three, 80-amp 600V fuses and two NPT hubs. The explosion proof disconnect offers delayed response to transient surges, making it ideal for addressing pulse currents and temporary overloads associated with motors, HVAC systems, and HID lights in flammable work sites.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO EXPLOSION PROOF ENCLOSURES

The EPFDS-AEC-80A-3P-3X80A.600V-TD ensures active protection of electrical systems in combustible facilities. Rated at 600 V AC, this fused unit contains three, 80-amp 3-pole 600 V time-delay fuses. The fuses feature 10-second time delay at 500% overload. These explosion proof disconnects are not sensitive to electrical pulses, allowing connected systems to utilize more power without activating the fuse. Time-delay fuses (also known as a short-blow fuse or a slow-

blow fuse) can withstand electrical surges for a specific period of time, typically 10-15 seconds. This feature is useful for equipment that relies on high voltage current during startup, such as motors.

Choosing between a time-delay fuse and a fast-acting fuse highly depends on the type of system or device requiring protection, as both protective methods are effective (one is not superior over the other).

Operators are provided access to a copper-free aluminum handle, which can be padlocked in the ON or OFF position. The ATEX-rated explosion proof disconnect is constructed of copper-free aluminum, with stainless steel hardware. For durability, the unit is finished in aluminum lacquer paint and features a NEMA-rated enclosure.

Hubs: For completing electrical connections, two NPT hubs are provided on the enclosure. One 2" NPT hub at the top; and one 0.5" NPT hub at the bottom are available during installation.

Mounting: Operators can mount the explosion proof disconnect on walls or flat surfaces.

Applications: Motors, VFDs, phase converters, HVAC systems, dryers, fluorescent lights, HID lights, metal halide, high pressure sodium, mercury vapor, petroleum refineries, chemical and petrochemical plants, storage areas, and other processing facilities where hazardous substances are handled or stored.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.



Frequently Asked Questions (FAQ)

Links (Click on the below items to view):

- [ATEX Certificate \(European Explosion Proof\)](#)
- [Canadian CEC Certificate \(Commonly referred to as CSA Certificate\)](#)
- [CE Certificate](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 3, Misc](#)
- [IEC Ex Certificate \(International Explosion Proof\)](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [USA NEC Certificate \(Commonly referred to as UL Certificate\)](#)
- [HigResPic1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)