STFE Elite Series - Active Tracking® Filters with Surge Protection

The SolaHD STF Elite DIN Rail Mount Series combines Active Tracking® technology with UL Listed surge protection to protect against the full spectrum of voltage transients and surges. It continuously tracks the input AC power line responding instantly into action upon detecting extraneous high frequency noise and high voltage transients caused by everyday events such as turning on machinery, motors, or equipment.

The STFE Series attenuates or reduces the amplitude of normal mode noise to a minimum of 90dB that occurs in a frequency range of 100KHz to 50MHz, and common mode noise to a minimum of 60dB that occurs in a frequency range of 5MHz to 50MHz. STFE provides the industry's best IEEE C62.41 Category "A & B" Ringwave protection.

They are built to meet your unique requirements, and are available in hardwired DIN Rail mount, single phase configuration. They are designed for years of trouble free operation and require little or no operator intervention after installation.

Applications

- Control Panels
- Factory Automation Installations
- Point of Use Industrial Equipment
- Programmable Logic Controllers
- Dedicated Industrial and Machine Tools Equipment

Features

- Series connected DIN Rail mounted filter
- Durable metal mount clip
- UL Listed surge current capacity – 45,000 Amps
- Transient protection in all modes (L-N, L-G, and N-G)
- Single phase applications up to 20 Amp
- Operating temperature from -40°C to +50°C
- Screw terminal connections
  - Reliable and convenient screw clamp connections
  - Accept 10-16 AWG wire
  - Meet IP20 specifications for ingress protection
- LED status indication
- Form C contact for remote monitoring
- Five year limited warranty

Certifications and Compliances

- c UL us UL Recognized Component
  - UL 1449, 3rd Edition, Type 4 locations
  - UL 1283
  - CSA C22.2 No. 8
- CE - EN 61643-11:2002
- RoHS Compliant

Related Products

- Power Conditioners
- Uninterruptible Power System
- Power Supplies

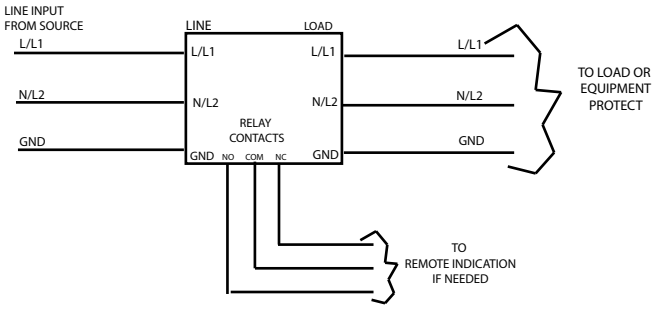
Selection Table

Catalog Number	Input Voltage	
STFE030–10N	120 V	Single Phase 2 Wire + Ground
STFE050–10N	120 V	Single Phase 2 Wire + Ground
STFE100–10N	120 V	Single Phase 2 Wire + Ground
STFE200–10N	120 V	Single Phase 2 Wire + Ground
STFE030–24L	240 V	Single Phase 2 Wire + Ground
STFE050–24L	240 V	Single Phase 2 Wire + Ground
STFE100–24L	240 V	Single Phase 2 Wire + Ground
STFE200–24L	240 V	Single Phase 2 Wire + Ground

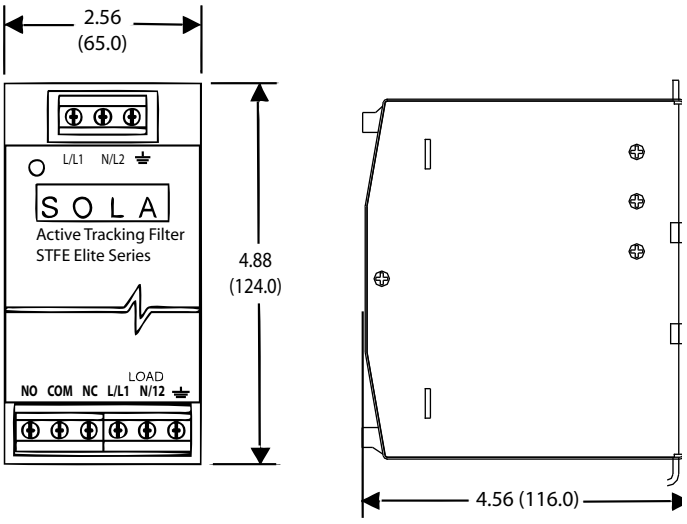
STFE Specifications

Description	STFEXXX–10N	STFEXXX–24L
Input Voltage	120 V (0-150 Vrms)	240 V (0-275 Vrms)
Line Frequency	47 - 63 Hz	
Response Time	< .5 ns normal mode, <5 ns common mode	
Enclosure	Fully Enclosed Metal Housing	
Fusing	Reference Fuse/Circuit Breaker Chart	
Status Indication	Green LED “OK”/Form C Contact/10 Amps @ 250 Vac or 5 Amps @ 100 Vdc	
Connection/Mounting Type	DIN Rail Mount	
Operating Temperature	-40°C to +50°C at full load Derate Linearly to 60% at +70ºC	
Weight – lbs (kg)	1.7 lbs (0.70 kg)	
Dimensions – in (mm) (H x W x D)	4.88 x 2.56 x 4.56 (124.0 x 65.0 x 116.0)	
Operating Humidity	0% to 95% Non-condensing	
Peak Surge Current Capability	Per Phase	30,000 Amps
	Line to Neutral	20,000 Amps
	Line to Ground	10,000 Amps
	Neutral to Ground	10,000 Amps
Load Surge Current Rating	10m Sec	5 x Nominal
	1 sec	3 x Nominal
	10 sec	2 x Nominal
Frequency Response		
Normal Mode (Forward–Reverse)	100 kHz to 50 MHz	90 dB Max
Common Mode (Forward–Reverse)	5 MHz to 50 MHz	60 dB Max
Transient Reduction (IEEE C62.41)	Typical Category A Ringwave (6 kV, 200A, 100 kHz)	< 60 V Peak
	Typical Category B Ringwave (6 kV, 500A, 100 kHz)	<100 V Peak UL 1449
Warranty	5 year limited warranty	

Connection Diagram



Dimensional Diagram - in. (mm)



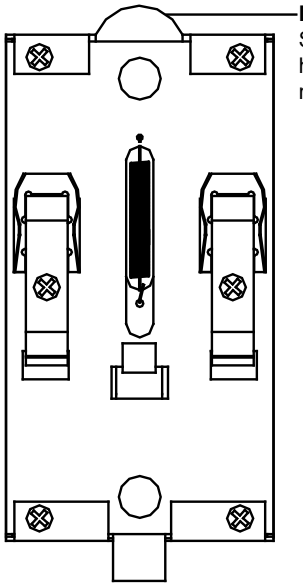
Wiring Specifications

Catalog Number	Amps	Min Wire Size * (AWG Suggested)	Fuse/Circuit Breaker Ampacity	
			Suggest	Max
Single–Phase Models (120 Vac)				
STFE030–10N	3.0	24	3A	3.75A
STFE050–10N	5.0	22	5A	6.25A
STFE100–10N	10.0	20	10A	12.5A
STFE200–10N	20.0	12	20A	25A
Single–Phase Models (240 Vac)				
STFE030–24L	3.0	24	3A	3.75A
STFE050–24L	5.0	22	5A	6.25A
STFE100–24L	10.0	20	10A	12.5A
STFE200–24L	20.0	12	20A	25A

* 16 AWG wire or larger may be required by code dependent upon the application.

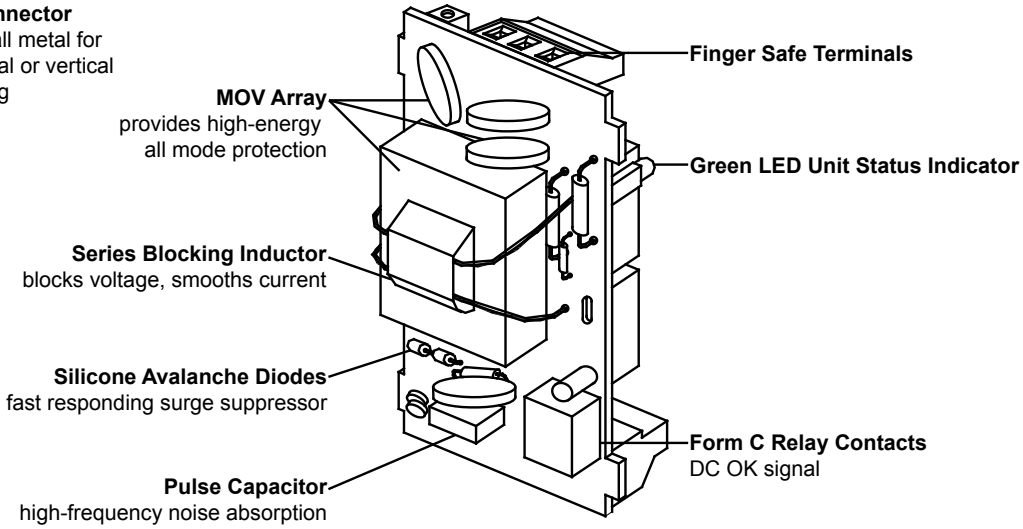
Internal Diagram

Rear View



DIN Connector
Strong all metal for horizontal or vertical mounting

Internal View of Components



LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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