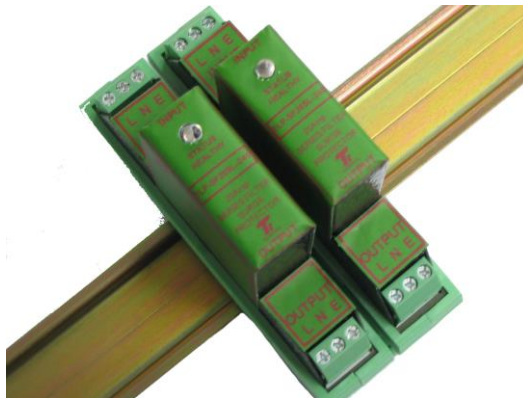


## MODEL:- TLP-SF20SL-xxxV

Transtech Lightning Protector Single Phase **20Amp**, 3 Mode with LED & RELAY covering CAT B - A



### GENERAL DESCRIPTION

The TLP-SF20SL-xxx is a range of single phase series connected 20Amp lightning and transient protector that provides protection for electrical / electronic equipment connected to single phase distribution systems. The TLP-SF20SL-xxx are true 3 mode series connected protection devices with a specifically designed low pass filter and high level of kA rating in all 3 modes. The TLP-SF20SL-xxx series offers a DIN style format to match the profile of most MCB's. An option of have a relay output is available.

### Also available with a relay output – Model TLP-SF20RI-240V (see figure below)

**For mains supply of greater than 100A adequate HRC fuse or MCB protection must be installed prior to the TLP-SFxxx**

### FEATURES

- ◆ Compact design – space saving
- ◆ Low “let thru” voltage
- ◆ Designed and manufactured to ISO 9001
- ◆ Internally protected – automatic reset
- ◆ Local status indication by coloured LED's
- ◆ Remote status indication relay output
- ◆ High Energy/low dissipation designed pcb's
- ◆ CE Marking / C-tick N 2909
- ◆ Full 3 mode protection
- ◆ DIN 43880 compliant
- ◆ **Independently Tested and passed IEC 61643-1:2005**
- ◆ **Designed to meet AS/NZS 1768:2007**

**NOTE: This device must be installed by a Qualified Electrician.**

### TECHNICAL DATA

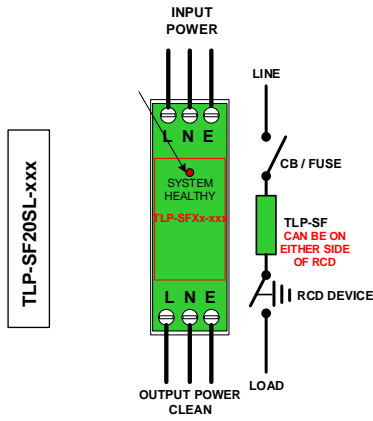
Normal Working voltage	see table 2 below
Maximum working voltage	275VAC rms (phase to neutral)
Working Freq.	40 - 60Hz
Peak let thru volts	see table 2 below
Maximum mains current	20A (40Amp and 63Amp available)
	Must be fuse protected over 100A Mains
	see table 2 below
Imax	Less than 25nS
Response time	Optional SPCO (1 amp @240Vac)
Relay Contacts	Automatic
Surge Reset	

### SPECIAL FEATURES

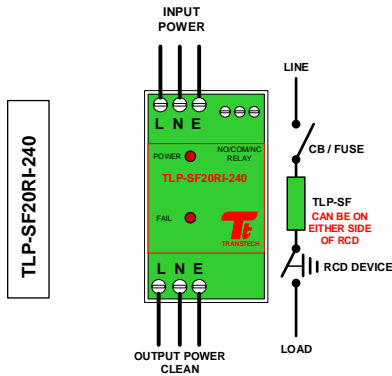
Indication	LED Power ON
OPTIONS	
<b>Relay Output</b>	Available on <b>TLP-SF20RI-xxx</b>

### GENERAL SPECIFICATION

Operating Temp	-40 to +70 Deg C
Terminals	4mm <sup>2</sup> solid max / 10mm <sup>2</sup> flex max
Remote Terminals	-
Indicators	LED
Housing Material	Mild Steel (Powder coated)
Dimensions	see table 3 below
Weight	see table 3 below
Mounting	DIN 43880 Standard DIN Rail



SCHEMATIC DIAGRAM

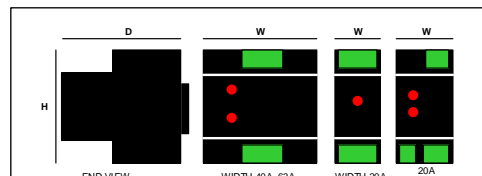


SCHEMATIC DIAGRAM

Model	Working Voltage		Frequency.	Imax	In	Let Thru V	Response Time	Cut Off Freq.
	Line - Neutral	1 Pulse						
TLP-SF20SL-12VDC	12V	10kA	DCV	20kA	15x8/20us	<48	25nS	-3dB
TLP-SF20SL-24V	24V	10kA	40-60HZ	20kA	10kA	<48	25nS	-3dB
TLP-SF20SL-30V	30V	10kA	40-60HZ	20kA	10kA	<60	25nS	-3dB
TLP-SF20SL-30VDC	30V	10kA	DCV	20kA	10kA	<60	25nS	-3dB
TLP-SF20SL-110VDC	110V	36kA	DCV	54kA	<275	<275	25nS	-3dB
TLP-SF20SL-120V	120V	36kA	40-60Hz	54kA	<710	<710	25nS	-3dB
TLP-SF20SL-240V	240V	36kA	40-60HZ	54kA	<710	<710	25nS	-3dB
TLP-SF20RI-240V	240V	48kA	40-60HZ	72kA	<710	<710	25nS	-3dB

**Other Voltages available please contact factory**

**TABLE No 2**



**TABLE 3**

MODEL	WIDTH	HIGH	DEEP	WEIGHT
TLP-SF20SL	25 mm	110 mm	90 mm	0.12kg
TLP-SF20RI	48 mm	110 mm	90 mm	0.19kg
TLP-SF40-1P	115 mm	110 mm	90 mm	1.0kg
TLP-SF63-1P	135 mm	110 mm	90 mm	1.0kg