TL2D50NZ

LIGHTNING SURGE ARRESTER COMBINATION

1. GENERAL APPLICATIONS

1.1 The protector is for protecting your valued equipment from surges, TOVs, transients, lightning impulses coupled into AC power system via direct or indirect strikes, an on/off or a short circuit in the transmission lines, induced or coupled into TN-C-S low voltage system, single phase 230 Volt 50 Hz or three phase four wire 400/230 Volt 50 Hz, which providing the safety of your personnel, communication equipment, computers and any other electronic equipment.

1.2 The protector is able to protect two types of surge as follows :

1.2.1 Transient (also called " Surge ") such as a discharge current of 8/20 µSec. waveform according to IEC 61643-11-2011 and ANSI / IEEE C62.41.1-2002.

1.2.2 Temporary Over Voltage or TOVs (again also referred to as " Surge ") caused by power frequency electrical system such as switching of the capacitor banks in the electrical system according to ANSI / IEEE C62.41.1-2002.

1.3 Surge Protecting component is using Metal Oxide Varistor (MOV) manufactured by TDK-EPCOS (formerly named SIEMENS) with the approval of UL1449.

1.4 The protector housing is made of nonflammable material (according to UL94V-0 standard) and DIN rail 35 mm. mountable.

1.5 The protector is plug-in module unit with base element type for easy installation and replacement.

1.6 The protector is designed, manufactured and tested according to the standard of IEC 61643-11-2011, ANSI / IEEE C62.41.1-2002.

SPECIAL FEATURES

- TOVs / Transient / Lightning Impulses / Surge Protections
- Designed for TN-C-S system
- For Class I / Class I+II / Cat. C / Cat. C+B application
- Easy installation & maintenance
- Designed according to the standard of ANSI / IEEE C62.41.1-2002, IEC 61643-11-2011,
- STOV® Technology

2. GENERAL DATA

2.1	Protection Mode	All modes (L-N, L-G, L-L, N-G)
2.2	Operating Temperature	- 20 °C ..... + 70 °C
2.3	Humidity Range	12% - 90%
2.3	Isolation Resistance	> 100 MΩ at test 100 Volt (DC)
2.4	Response Time	< 25 nSec
2.5	Status Display	Normal or Fault indicator
2.6	Degree of Protection	IP 20
2.7	AC Load Current	Independent (Un-limited)

3. ELECTRICAL DATA

3.1	IEC / IEEE		Class I / Class I+II / Cat. C / Cat. C+B
3.2	Line Voltage		230 Volt or 400/230 Volt 50 Hz
3.3	Leakage Current		< 5 mA at 230 Volt 50 Hz
3.4	Max. Continuous Operating Voltage	Uc	264 Volt 50 Hz
3.5	Max. Lightning Impulse Current	Iimp	10 kA / Phase (10/350 µSec) MOV
3.6	Max. Discharge Current	Imax	50 kA / Phase (8/20 µSec)
3.7	Nominal Discharge Current	In	15 kA / Phase (8/20 µSec)
3.8	Residual Voltage	Ures	< 1.2 kV at cat. B3/C1
3.9	Clamping Voltage		310 Volt ± 10 % at current > 100 mA 50 Hz
3.10	TOVs Surge Current		> 5 A in 300 mSec 50 Hz
3.11	Let Through Voltage (TOVs)		< 270 Volt at TOVs Surge Current



90 x 36 x 70 mm / 250 g

TL2D50NZ



90 x 108 x 70 mm / 750 g

3TL2D50NZ



90 x 36 x 70 mm / 250 g

T2P5NG



90 x 72 x 70 mm / 500 g

TL2D50NZ (with option : NG2)

4. OPTIONS

Parts Approval STOV Technology

4.1 IC1	=	Indoor Cabinet	for single phase 230 Volt 50 Hz with accessories
4.2 OC1	=	Outdoor Cabinet	
4.3 IC3	=	Indoor Cabinet	for three phase four wire 400/230 Volt 50 Hz with accessories
4.4 OC3	=	Outdoor Cabinet	
4.5 NG2	=	Neutral Ground Model : T2P5NG	Iimp 5 kA at 10/350 µSec, Up < 1.5 kV (1.2/50 µSec at 6 kV) and Response time < 100 nSec.
4.6 RA	=	Remote Alarm	free changeover contact 250 Volt 5 A
4.7 TOVC	=	TOVs Counter	3 Digital display / counts from 5 A + 20 % at one cycle of 50 Hz up

Type of Lightning Surge Arrester Combination		
Model	Max. Lightning Impulse Current (10/350 µSec)	Max. Discharge Current (8/20 µSec)
TL2D50NZ	10 kA	50 kA

Odering format :

Model : TL2D50NZ (with option : __)

Odering example :

Model : 3TL2D50NZ (with option : IC3)

means Max. Lightning Impulse Current 10 kA (10/350 µSec) and Max. Discharge Current 50 kA (8/20 µSec) for three phase four wire 400/230 Volt 50 Hz with indoor cabinet.



Dimension (W x L x H) : 260x250x110mm Weight : 3300g

3TL2D50NZ

(with option : IC3 + NG2)

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