



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 μ Sec. waveform according to IEC 61643-11-2011.
 - 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 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 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 and ANSI / IEEE C62.41.1-2002.

T2P-T3 series SURGE PROTECTOR

SPECIAL FEATURES

- TOVs / Transient / Lightning Impulses / Surge Protections
- Designed for TN-C-S system
- For Class II / Category B /
วสท. ยี่ห้อ 1 / Type C application
- Easy installation & maintenance
- Designed according to the standard of IEC 61643-11-2011 and
ANS/IEEE C62.41.1-2002
- Innovative **STOV**® Technology

2. GENERAL DATA

2.1 Protection Mode	All modes (L-N, L-G, N-G, L-L)
2.2 Operating Temperature	- 20 C° + 70 C°
2.3 Isolation Resistance	> 100 M Ω 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 / วสท. / VDE	Class II / Cat. B / วสท. ยี่ห้อ 1 / Type C
3.2 Line Voltage	230 Volt or 400/230 Volt 50 Hz
3.3 Max. Continuous Operating Voltage U _c	264 Volt 50 Hz
3.4 Nominal Discharge Current I _n	10 kA (8/20 μ Sec)
3.5 Max. Discharge Current I _{max}	15 kA...65 kA (8/20 μ Sec) see model
3.6 Residual Voltage U _{res}	< 1.1 kV at cat. B3/C1
3.7 Clamping Voltage	315 Volt \pm 15 % at current > 100 mA 50 Hz
3.8 TOVs Surge Current	> 5 A in 300 mSec 50 Hz
3.9 Let Through Voltage (TOVs)	< 270 Volt at TOVs Surge Current

4. OPTIONS



4.1	IC1 = Indoor Cabinet	IP1 = Indoor Plate	ID1 = on DIN RAIL
	for single phase two wire 230 Volt 50 Hz with accessories		
4.2	IC3 = Indoor Cabinet	IP3 = Indoor Plate	ID3 = on DIN RAIL
	for three phase four wire 400/230 Volt 50 Hz with accessories		
4.3	RA = Remote Alarm	free changeover contact 250 Volt 5 A	
4.4	NG2 = Neutral Ground Model : T2P5NG	limp 5 kA at 10/350 μ Sec, Up < 1.5 kV (1.2/50 μ Sec at 6 kV) and Response time < 100 nSec	
4.5	TOVC = TOVs Counter	3 digits display / counts from 5 A \pm 20% at one cycle of 50 Hz up	

Surge Protector Model	Max. Discharge Current (8/20 μ Sec)
T2P15T3	15 kA
T2P25T3	25 kA
T2P40T3	40 kA
T2P50T3	50 kA
T2P65T3	65 kA

Ordering format :

Model : **T2P40T3** (with option : __ + __)

Ordering example :

Model : **T2P40T3** (with option : IC1 + RA)
means Surge Protector 40 kA (8/20 μ Sec)
for single phase 230 Volt 50 Hz with indoor
cabinet and remote alarm.

