STABIL AC LINE SURGE PROTECTOR





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 C62.41-1991.
 - 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 Metal Oxide Varistor (MOV), surge protecting component, is manufactured by TDK-EPCOS (formerly named SIEMENS) with the approval of UL1449 and CSA.
- 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 designed, manufactured and tested according to the standard of IEC 61643-11-2011, ANSI / IEEE C62.41.1-2002 and วสท. EIT 2007-53.

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 Power and Fault LED indicator

2.6 AC Load Current Independent (Un-limited)

3. ELECTRICAL DATA

3.1 Line Voltage 230 Volt or 400/230 Volt 50 Hz

3.2 Max. Continuous Operating Voltage 280 Volt 50 Hz

3.3 Leakage Current < 5 mA at 230 Volt 50 Hz (exclude indicator display)

3.4 Surge Capability 40 kA / Phase at 8/20 μ Sec 3.5 Let Through Voltage (Transient) < 1.5 kV at category B3/C1 > 5 A in 20 mSec. 50 Hz

3.7 Let Through Voltage (TOVs)
450 Volt (Due to TOVs Surge Current)

4. OPTIONS

4.1 IE	B1	=	Indoor Box	for single phase 230 Volt 50 Hz with accessories
4.2 0)B1	=	Outdoor Box	and 1 unit of protector is included.
4.3 IE	33	=	Indoor Box	for three phase four wire 400/230 Volt 50 Hz with
4.4 0)B3	=	Outdoor Box	accessories and 3 units of protector are included
4.5 S	M	=	Single MOV	one unit of MOV at Max. Transient Surge Current
4.6 TOVO	OVC	=	TOVs Surge C	current Counter Model : TOVC
			3 digits display	y / counts from 5 A ± 20% at one cycle of 50 Hz up

ne Surge Protector
Surge Capability (8/20 µSec)
40 kA

Odering format:

Model : _____ (with option : __+__+__)

Odering example :

Model: TC3M40W (with option: IB1+SM+TOVC)

means Surge Protector 40 kA for single phase 230 Volt 50 Hz with indoor box and single MOV and TOVs surge current counter

TC3M40W



Model: TC3M40W Size: 52 x 90 x 71 mm.



Model: TC3M40W (with option: IB1)
Size: 260 x 250 x 110 mm.



Model : TC3M40W (with option : IB1+TOVC $\label{eq:Size} Size : 260 \times 250 \times 110 \text{ mm}.$



Model: TC3M40W (with option: IB3+TOVC) Size: 350 x 260 x 150 mm.







