

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 μ Sec. 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
3.6 TOVs Surge Current	> 5 A in 20 mSec. 50 Hz
3.7 Let Through Voltage (TOVs)	< 450 Volt (Due to TOVs Surge Current)

4. OPTIONS

4.1 IB1 = Indoor Box	for single phase 230 Volt 50 Hz with accessories and 1 unit of protector is included.
4.2 OB1 = Outdoor Box	
4.3 IB3 = Indoor Box	for three phase four wire 400/230 Volt 50 Hz with accessories and 3 units of protector are included.
4.4 OB3 = Outdoor Box	
4.5 SM = Single MOV	one unit of MOV at Max.Transient Surge Current
4.6 TOVC = TOVs Surge Current Counter Model : TOVC	3 digits display / counts from 5 A \pm 20% at one cycle of 50 Hz up

Type of AC Line Surge Protector	
Model	Surge Capability (8/20 μ Sec)
TC3M40W	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)

Size : 260 x 250 x 110 mm.



Model : TC3M40W (with option : IB3+TOVC)

Size : 350 x 260 x 150 mm.



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