

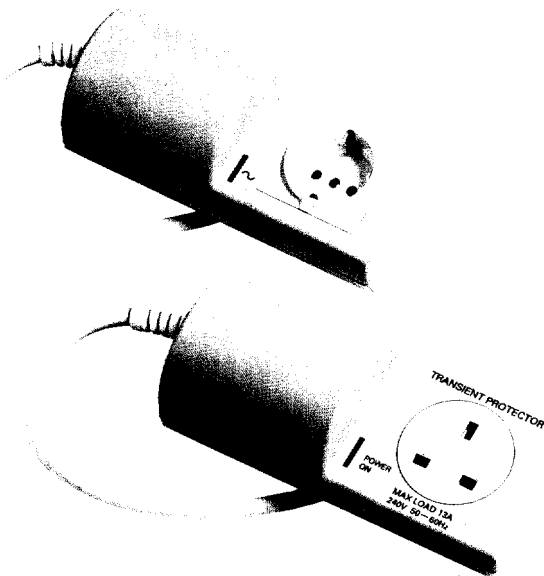
MAINS TRANSIENT PROTECTOR

CURRENT RATINGS:
3 AMP, 7 AMP, 13 AMP.
OPERATING VOLTAGE:
220-265V, (50-60 Hz RMS)

Designed as a High Performance Filter socket which is easily connected 'In-line', to a wide variety of sensitive electrical equipment, in order to provide a very high level of protection against the hazards of voltage transients and mains borne interference.

Power fluctuation problems can arise from electrical equipment being switched on or off, lifts starting, to lightning strikes and radio transmissions.

In a fraction of a second damage to hardware or loss of software can occur.



The Phase Two Mains Transient Protector is the affordable route to protection from such damage, whatever the working environment. It dramatically reduces the impact of fast transient pulses on the mains supply and provides effective insertion loss performance.

TYPICAL APPLICATIONS

- Office Equipment
- Computers
- Audio/Video Equipment
- Laboratory Equipment
- Industrial Electronics Equipment
- Telecom Equipment

COMMERCIAL ADVANTAGES

- Protects expensive and sensitive equipment
- Very high filter performance for minimal cost
- Increased system reliability and efficiency

- Equipment/system downtime reduced
- Operating and service costs reduced
- Simple 'In-line' installation

540-419

TECHNICAL ADVANTAGES

■ TRANSIENT PERFORMANCE

The unit has a maximum transient energy absorption of 10KW, with a response time as quick as 0.12 nano seconds.

The rise time of the output pulse is integrated to 10 times the input pulse which means the equipments own power supply is completely protected.

■ SATURATION

Magnetic Core Saturation of the MTP would not occur until three times the maximum rated current is applied. Therefore when connected to equipment drawing the full rated capacity, the filter performs as efficiently as at lower currents.

■ HIGH FREQUENCY PERFORMANCE

Is enhanced on the live and neutral lines by the use of a ferrite loaded mains cable, which naturally gives very good high frequency rejection down the earth line.

■ CASE CONSTRUCTION

Aesthetically pleasing compact modern design. The Phase Two MTP is made in a high impact UL 94V0 flame retardant grey plastic housing. If volumes are required customers can have facia with own screen printed design.

The MTP has a 'power on' indication light, and comes complete with a plug and fitting instructions.

■ VERSATILITY

Many International socket outlets are available including UK, German, French, USA etc.

Alternatively specific equipment match is possible irrespective of the local plug or socket type.

A 'trailing socket' can be connected to the MTP outlet and provide cost effective transient protection to a number of pieces of equipment up to the rated capacity of the unit.

STANDARDS

All Phase Two Electronics filters are designed in accordance with BS613 for filter design and the latest requirements regarding Health and Safety, particularly EN 60950 creepage and clearance and BS.6204 earth leakage current criteria.

REGULATIONS

Manufacturers of electrical/electronic products are recommended to comply with Radio Frequency Interference (R.F.I) regulations in the recently issued E.E.C. Harmonisation Programme and from January 1st 1992 all electrical/electronic products made or sold in the United Kingdom must by law meet specific performance criteria with regard to Electro Magnetic Compatibility (EMC). The range of MAINS TRANSIENT PROTECTORS is designed to help our customers comply and to give a compactness and performance superior to other suppliers.

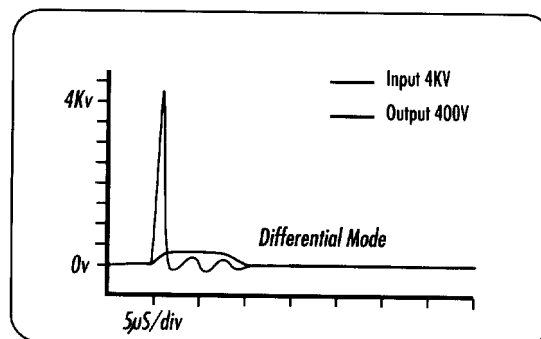


SPECIFICATION

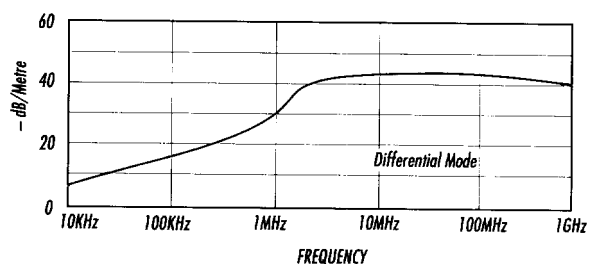
Operating Voltage	220 - 265V AC
Max Load Current	13A
Line Frequency	50 - 60 Hz RMS
Typical Attenuation	15dB @ 100KHz
rising to	30dB @ 1MHz
Core Saturation	3x Nominal Operating Current
Transient Response Time	0.12 Nano - seconds (nS)
Max Transient Absorption	10KW
Pulse Integration	10:1
Case Construction	UL94VO Flame Retardent Plastic
Colour	Grey
Cable Lead	RFI Enhanced
Cable Length	1.25 m
Standards In Accordance with	EN 60950, BS 613
Dimensions	170mm x 65mm x 75mm
Earth Leakage per line	2.2 mA

PERFORMANCE CHARACTERISTICS

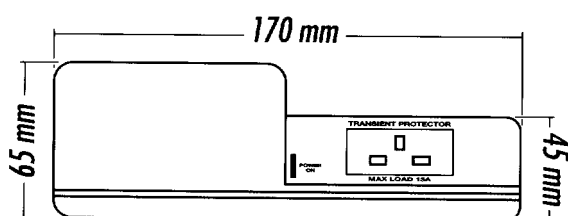
TRANSIENT RESPONSE



INSERTION LOSS



DIMENSIONS



ORDERING CODES

P2E/ * / * /MT / ***

AMP RATING ● (013 = 13A)
 VOLTAGE ● A = 110V B = 220V C = 240V
 PRODUCT TYPE ●
 TYPE OF SOCKET / PLUG CONNECTION ●
 D = GERMANY E = SPAIN F = FRANCE
 G = GREAT BRITAIN U = UNITED STATES

E.G. P2E / 013 / C / MT / G

In addition to the standard range of filters, Phase Two Electronics specialise in the design and manufacture of filters to suit your specific design requirements.

Due to continuous development Phase Two Electronics reserve the right to amend any information contained within this data sheet without prior notice.



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