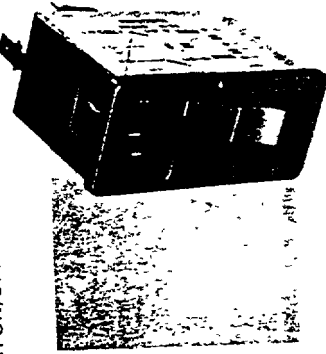


# MAINS INPUT FILTERS

WF290 SERIES  
OUTLINES AND DIMENSIONS

## MAINS INPUT FILTERS WITH ON/OFF SWITCH AND FUSE HOLDER



**Description**  
The WF290 series is based on the WF 120 mains input filter and incorporates a two pole 6 amp on/off switch and a fuseholder. The body has a snap-in mounting. The space saving combination of IEC 320 power inlet, switch and fuse permits the designer to mount the power inlet components in one shielded block away from sensitive areas of the equipment and close away with the need to run leads from the back panel of an equipment to a switch on the front panel.  
The WF290Z is a version fitted with a varistor for surge voltage protection. For varistor data see page 7.  
The WF290B is a version for medical equipments see page 8 for additional data.

### Electrical Data and Ratings

Type Reference	Rated Current (A r.m.s.)	Leakage Current ( $\mu$ A max)	Terminations		C <sub>x</sub> $\mu$ F	C <sub>y</sub> pF	L <sub>1</sub> mH	R M $\Omega$ (mm)
			Input	Output**				
WF290 2/05	2	500	IEC 320	6.3 x 0.8mm/	0.015	2200	2.0	1
WF290Z 2/05	2	500	(CEE 22)	2 x 2.8 x 0.8mm	0.015	2200	2.0	1
WF290B 2/05	2	5	Power Inlet	Universal	0.015	2200	0.5	1
WF290 6/05	6	500			0.015	2200	0.5	1
WF290Z 6/05	6	5			0.015	2200	0.5	1

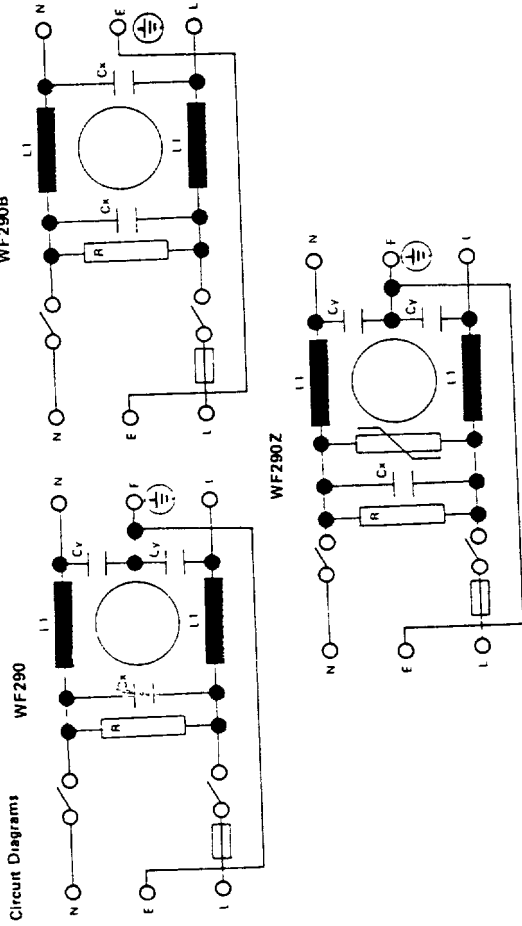
\*\* Alternative terminations available - see ordering information on page 14

**Rated Current**  
as above table for temperature range -25°C to +45°C  
Derate 1/2 linearly from rated current at +45°C to zero at +85°C

**Operating Temperature:** -25°C to +85°C  
**Climatic Category:** 25/85/56  
**Voltage Proof:** 2700Vd.c. line to earth and neutral to earth for 2 secs see page 7

**Varistor Data:**

### Circuit Diagrams

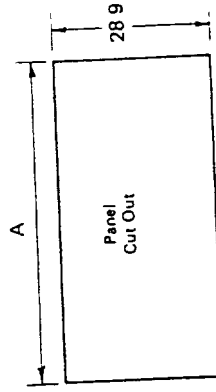
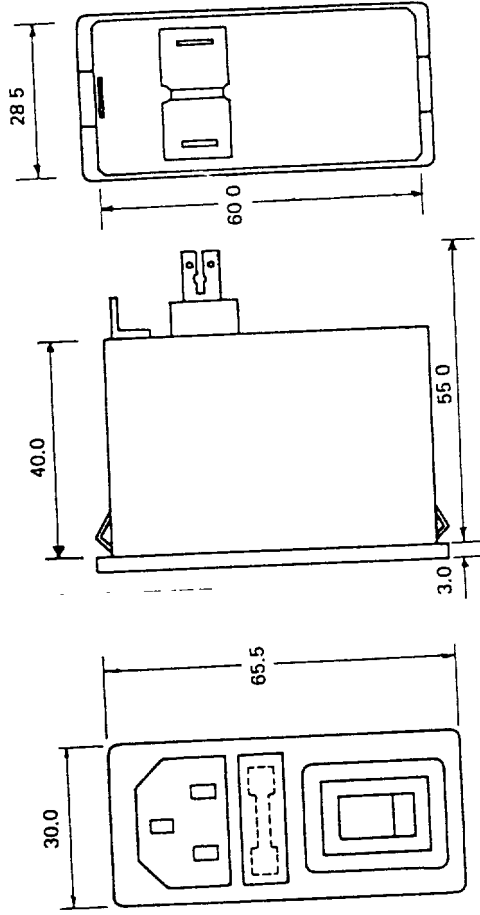


### Performance Curves

WF290 2/05 & WF290Z 2/05 see WF 120 3/05 page 9  
WF290 6/05 & WF290Z 6/05 see WF 120 6/05 page 9  
WF290B 2/05 see WF 120B 3/05 page 8  
WF290B 6/05 see WF 120B 6/05 page 8

**Fuses**  
Size 5mm x 20mm  
Fuses should be ordered separately

### Outline Drawings and Dimensions



All dimensions in mm

### Panel Cut-Out Details

Panel Thickness	DIM A
1.2 to 1.5mm	61mm
2.0mm to 2.5mm	61.5mm

### Ordering Information

WF290  
Filter Type

Blank = Standard  
B = Medical  
E = Earthline Choke  
Z = Surge Suppression

Termination  
01 = Solder Tag  
04 = 4.8 x 0.8mm Push-on  
05 = 6.3 x 0.8/2.8 x 0.8mm Universal  
10 = 6.3 x 0.8mm Push on

Example shown is a WF290E 2/05 earth line choke version with 2A rating and universal terminations