



Premier ProtectorTM

A complete range of Filters with
Transient Voltage Protection

TECHNICAL DETAILS

TRANSIENT VOLTAGE PROTECTION

Varistor Technical Data

For Filters 1 to 6 Amp

Varistor, Zinc oxide type; energy absorption 21 Joules** (current impulse defined in IEC 60-2 Section 6). Varistor voltage: 430Vdc (measured at 1mA); clamping voltage 710V at 10A.

For Filters 10 to 16 Amp

Varistor, Zinc oxide type; energy absorption 43 Joules** (current impulse defined in IEC 60-2 Section 6). Varistor voltage: 430Vdc (measured at 1mA); clamping voltage 710V at 25A.

LEAKAGE CURRENTS

** (unless stated otherwise)

Leakage currents are measured in accordance with IEC348 (BS4743) and are given as leakage current per line.

In normal single phase use, the leakage current will be that for one line.

For other voltages and frequencies, leakage current is directly proportional to voltage and frequency: 1mA leakage at 250V, 50Hz is equivalent to:

$$1\text{mA} \times \frac{120}{250} \times \frac{60}{50} = 0.576\text{mA}$$

at 120V, 60Hz.

CURRENT RATING

Current ratings are given for ambient temperatures up to 40°C.

For temperatures above 40°C, derate I^2 linearly to zero at 85°C using the formula:

$$I_{ta} = I_{\text{rated}} \sqrt{\frac{85 - t_a}{45}}$$

The t_a is measured in °C. For other ratings or specifications, please contact our engineering department.