Square Body

690V High-Speed Full Range

$\frac{E_2}{E_1}$ x (0.92 + 0.004t) ≤ 1.6

Where
E_1 = Voltage drop across fuse after 5 seconds
E_2 = Voltage drop across fuse after 2 hours
t = Air temperature at start of test (°C)

Mechanical Characteristics

The 690V High-Speed Full Range fuses are blade type fuses according to DIN 43 620. These fuses are for mounting in open fuse bases. The fuses have tags for fuse handle (puller) and for clip-on microswitch.

Rated Frequency

The characteristics and data given in this publication are valid for frequencies between 45 and 62 Hz.
No derating of maximum working voltage and maximum permissible load current between 45 and 1000 Hz is necessary. For other frequencies please see our technical bulletin.
The High-Speed Full Range fuse contains no magnetic end plates and the fuses can thus be used up to 1000 Hz. However, the published data has to be adjusted below 45 Hz and beyond 62 Hz. Please contact Bussmann for application assistance.

DC Operation

The 690V High-Speed Full Range fuses can be used in circuits where DC-faults may occur. The maximum allowable DC-voltage will depend on the nature of the short circuit together with the di/dt of the prospective DC-fault current. Please contact Bussmann for additional information and application assistance.

Protection Class

These fuses are especially designed to give both short circuit and overload protection and thus combining the performance of aR and gG. In general terms this is often referred to as full range protection, gR.

Accessories

Microswitch
For these 690V High-Speed Full Range fuses, two different microswitches are available:

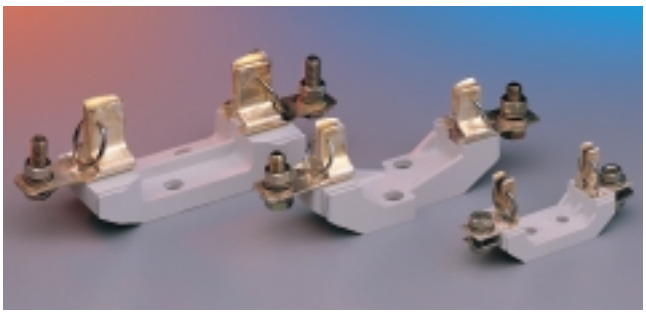
170H0236 (6,3 x 0,8 mm lugs)
170H0238 (2,8 x 0,5 mm lugs)

The microswitches have one normally open, and one normally closed contact. Ratings are 2A, 250VAC.

Fuse Puller
170D0029 or 630

Fuse Bases
The 690V High-Speed Full Range fuses have been thermally tested in the appropriate fuse bases, according to guidelines in IEC 60269 Part 1. The recommended bases have full amperage capacity under IEC conditions.

In order to avoid overheating or damage to fuse or fuse base in the actual application, please refer to Bussmann´s technical bulletin for guidelines on selecting the rated current of the fuse.



The fuse bases are rated 690V.

Order number	Body Size	Type
170H3040:	DIN 00	Single Pole
170H3041:	DIN 1	Single Pole
170H3042:	DIN 2	Single Pole
170H3043:	DIN 3	Single Pole
170H3044:	DIN 00	Triple Pole
170H3045:	DIN 1	Triple Pole
170H3046:	DIN 2	Triple Pole
170H3047:	DIN 3	Triple Pole