

# 415 Volt House Service Cut-out Fuse Links to BS1361: 1971, Confirmed 1986.

**LAWSON Type "ME" and "MF"** fuse-links are for use in single or three phase house service cut-outs or similar installations.

The fuse-links comply with the requirements of the latest 1986 edition of BS1361 for Type II fuse-links including the amendment specifying pre-arcing limits to provide back-up protection for inadequately rated consumer unit protective devices. They also comply with UK Electricity Supply Industry Technical Specification 12-10: 1990, now also published as BS7657: 1993. In addition they meet the requirements of IEC269-3: 1987 and the latest draft of IEC 269-3-1 which together will form the basis of a future BS88: Part 3 and its European equivalent EN60269-3.

In complying with the requirements of BS1361 the fuse-links have time-current characteristics which meet the disconnection times specified in the latest 16th Edition of the IEE Wiring Regulations, now also published as BS7671: 1992.

To cater for increasing fault levels all fuse-links have been ASTA tested to 80kA at 0.15 p.f. rather than the standardized BS1361 requirement of 33kA at 0.3 p.f.


Energy efficiency in Type "ME" and "MF" fuse-links is enhanced by power dissipations substantially below the standardized limits. Not only are the temperature rises lowered in adjacent equipment, thus reducing the risk of contact or joint deterioration and prolonging the life of the installation, but energy consumption is also lowered through a reduction in wasteful watts losses and in addition an economic benefit is obtained from the smaller costs of kWh and max. demand charges.

In addition to the preferred current ratings specified in BS1361, lower current ratings are available in both Type IIa and Type IIb.

The fuse-links meet electromagnetic compatibility (EMC) requirements, since they are not sensitive to normal electromagnetic disturbances and any significant electromagnetic disturbance generated by the fuse-links themselves is limited to the instant of operation and its level is controlled by the requirements of BS1361 and the other applicable standards.

The range has a rated voltage of 415V a.c. and has been certified at a test recovery voltage of at least 110%. The fuse-links are therefore suitable for use on systems with voltages up to 457V a.c. The rated and test voltages also ensure that the range meets all the transitional voltage requirements specified during the stages leading to a harmonized European nominal three phase voltage of 400V a.c.

Fuse-links from this range have been approved by leading authorities including Lloyds Register of Shipping and many Electricity Supply Authorities.

The fuse-links are independently ASTA Certified to the rules of the 1989 Edition of the ASTA 20 Scheme, under which they are Authorised to bear the endorsement "ASTA  CERT" where applicable.

**Lawson Fuses Limited is Independently Approved to BS750, ISO9000 and EN29000**

## Specification

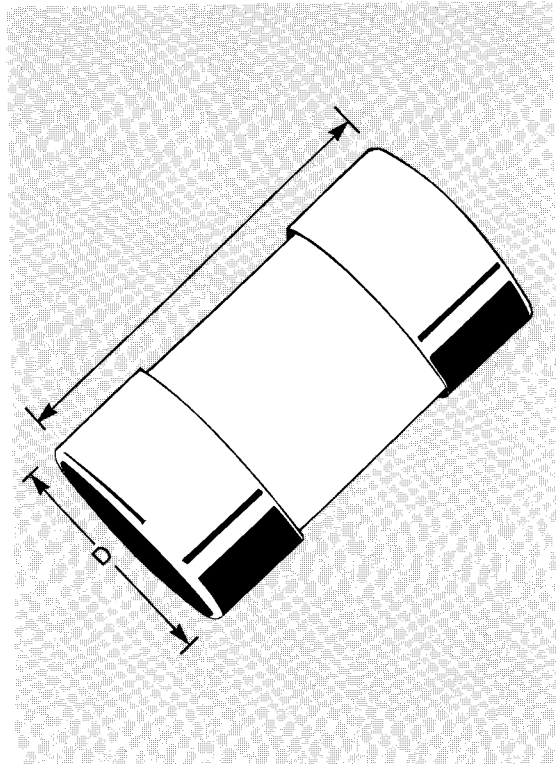
Rated Voltage: 415V a.c.

Fusing Factor: Not exceeding 1.5 (Class Q1)

Rated Breaking Capacities: 33kA at 0.3 p.f. (tested at 80kA at 0.15 p.f.)

### Current Ratings and Principal Dimensions

BS1361 Type	Current Rating (A)	List Reference	Principal Dimensions			
			L		D	
			mm	in	mm	in
IIa	5	ME5	57	2 1/4	22.23	7/8
	10	ME10				
	15	ME15				
	20	ME20				
	25	ME25				
	30	ME30				
	40	ME40				
	45	ME45				
	50	ME50				
	60*	ME60				
	80*	ME80				
IIb	30	MF30	57	2 1/4	30.16	1 3/16
	40	MF40				
	50	MF50				
	60	MF60				
	80*	MF80				
	100*	MF100				



\*BS1361: 1971 preferred current rating

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