



## BS88-1 or 6:1988, IEC 269-1



ASTA **20** Certified

### A.C. Performance

Current Rating	(A) 2-80
Voltage Rating ac	(V) up to 440
Breaking Capacity ac	(kA) 80

### Breaking Capacity (AC)

The standard ratings are ASTA 20 certified to 80kA, 415 Volt\*, to BS 88: Part 1 or Part 6: 1988 (IEC 269-1).

\*SS types are certified at 16.5kA, 240 Volt, and the NS32M40 and ES63M80 at 80kA, 415 Volt.

### Offset blade tag: Type SS

Current rating	Part Number	Max voltage rating ac
2A	SS2	240
4A	SS4	240
6A	SS6	240
10A	SS10	240
16A	SS16	240
20A	SS20	240

### Offset blade tag: Type NS

Current rating	Part Number	Max voltage rating ac
2A	NS2	415
4A	NS4	415
6A	NS6	415
10A	NS10	415
16A	NS16	415
20A	NS20	415
25A	NS25	415
32A	NS32	415
32M40A	NS32M40	415

### Offset blade tag: Type ES

Current rating	Part Number	Max voltage rating ac
40A	ES40	440
50A	ES50	440
63A	ES63	440
63M80A	ES63M80	415

### Discrimination

'SAFECLIP' fuse links will discriminate with each other at fault levels up to their rated a.c. performance when the ratio between 'major' and 'minor' current ratings is 2:1 (See Application Notes.)

### Application Notes

#### Short circuit energy limitation and discrimination

The designers of electrical equipment such as switches and contactors have to prove their products under the worst possible conditions (ie. At maximum breaking capacity, at 110% rated voltage, very low power factor, and with faults initiated at the most onerous points on the voltage wave), and they require relevant data from the fuse link manufacturer.

However, in service the short circuit fault conditions are usually less exacting than those produced in proving tests. In particular, the circuits are usually three-phase with relatively high power factor. In practice, therefore, the I<sup>2</sup>t values of 'SAFECLIP' fuse links are significantly less than those tabulated and they will discriminate with each other if the ratio between 'major' and 'minor' fuse links in series is 2:1. Where 'SAFECLIP' fuse links are used as the minor rating in series with a 'RED SPOT' range fuse link as the major rating then discrimination at 415/240 Volts will generally be achieved with a ratio of 1.6:1.

### Offset blade tag: Safeclip

Type	Rating	A	B	D	E	G	H
SS	2 - 20	25.00	14.50	51.00	11.00	0.80	3.60
NS	2 - 32M40	35.50	14.50	62.00	11.00	0.80	3.60
ES	40 - 63M80	39.00	17.50	69.00	15.00	1.25	3.60

### Dimensions in mm

