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SINGLE PHASE TRANSFORMER PRIMARY FUSE/MCB PROTECTION

SUGGESTED PRIMARY FUSE VALUES

For the standard range of single phase transformers we suggest a type 'T' characteristic fuse rated at approximately 2 x Full Load Current.

SUGGESTED PRIMARY MCB VALUES

We suggest the following equation for the sizing of mcb's for use on the primary side of transformers:

RATING = <u>
15 x FULL LOAD CURRENT</u> <u>
MINIMUM INSTANTANEOUS TRIPPING COEFFICIENT OF MCB</u>

	230V RANGE	400V RANGE
VA	FUSE TYPE T	FUSE TYPE T
	(AMPS)	(AMPS)
50	0.500	0.315
100	0.800	0.500
150	1.25	0.800
200	2.00	1.25
250	3.15	1.60
350	4.00	2.50
500	6.30	3.15
750	8.00	5.00
1000	10.0	6.30
2000	16.0	8.00
2500	20.0	10.0
3000	25.0	16.0
4000	32.0	20.0
5000	40.0	25.0
6000	50.0	32.0

APPROX SUGGESTED INPUT VA TYPE D MCB FLC VOLTS (AMPS) RATING (AMPS) 230 0.28 50 400 0.16 1 230 0.51 100 400 0.30 1 230 0.75 1 150 400 0.43 1 230 0.99 2 200 400 0.57 1 230 1.47 2 300 400 2 0.84 230 1.94 4 400 400 2 1.12 230 2.40 4 500 2 400 1.38 230 6 3.59 750 400 2.07 4 10 230 4.75 1000 400 2.73 4 230 6.92 10 1500 400 3.98 6 230 9.16 16 2000 400 5.26 10 230 11.4 20 2500 400 6.56 10 230 13.6 20 3000 400 7.83 16 230 18.1 32 4000 400 10.4 16 230 22.6 40 5000 400 13.0 20 230 40 27.1 6000 25 400 15.6

Inrush Current Note

When a transformer is first energised, a transient current much larger than the normal full load current flows for a short period. Because of this inrush current, special consideration is required when selecting protective devices for the primary side.

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