Class C

Specifications:

Voltage Rating:	600Vac 460Vdc
Interrupting Rating:	200kA @ 600Vac 40kA @ 250Vdc
Amp Range:	2-600A
Approvals:	C22.2 no. 248, IEC269-1&2, CE
Ratings available:	2, 4, 6, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125, 150, 200, 250, 300, 350, 400, 450, 500, 600A

Part number example - CIA-25

Although initially a British design, the Class C fuse was the original Canadian HRC fuse. Introduced at a time when the only choices were low performance one-time or renewable fuses, the Class C fuse was quickly specified by the Canadian pulp, paper, and mining industry, and is still in widespread use in these industries today.

- Provides Type 2 protection for IEC and NEMA control.
- Fully plated parts for low contact resistance and cool running.
- Notched tags for easy fuse replacement. (2-100A)
- Ceramic bodies throughout the range.

Fuse Rating	Primary full load Amps (A)			Fuse Rating	Primary full load Amps (A)	
	From	To			From	To
2	0	0.78		80	41	53
4	.079	1.1		100	53.1	66.6
6	1.11	1.8		125	66.7	83.3
10	1.81	3.5		150	83.4	100
15	3.51	7.0		200	101	133
20	7.1	10.7		250	134	167
25	10.71	14.1		300	168	200
30	14.2	20		350	201	233
40	20.1	26.6		400	234	267
50	26.7	33.3		450	268	300
60	33.4	40		500	301	333
				600	334	400

These tables assume that the secondary side of the transformer is protected at 125% of its full load current. This is usually the case.
Fuses used on the primary side of transformers must be capable of:

- Withstanding the magnetizing inrush to the windings of approximately 12x the normal full load current of the primary for 0.1 sec. without operation or element damage.

- Carrying short-term overloads not exceeding 150% of the normal full load primary current.

The fuse ratings recommended meet these requirements.

Motor Application

Standard motor starting duty is defined as motors having 6 x nominal FLA starting current, maximum 10 second acceleration time and 4 evenly spaced starts per hour in a maximum 32 degree C ambient. If any of these conditions are exceeded, use the Heavy duty column.

The motor data and fuse ratings presented are based on 1800 rpm high efficiency motors. For operating conditions or motor types outside the scope of these tables, please request a copy of our Fusesoft v4.0 fuse selection software or contact our offices with application details.

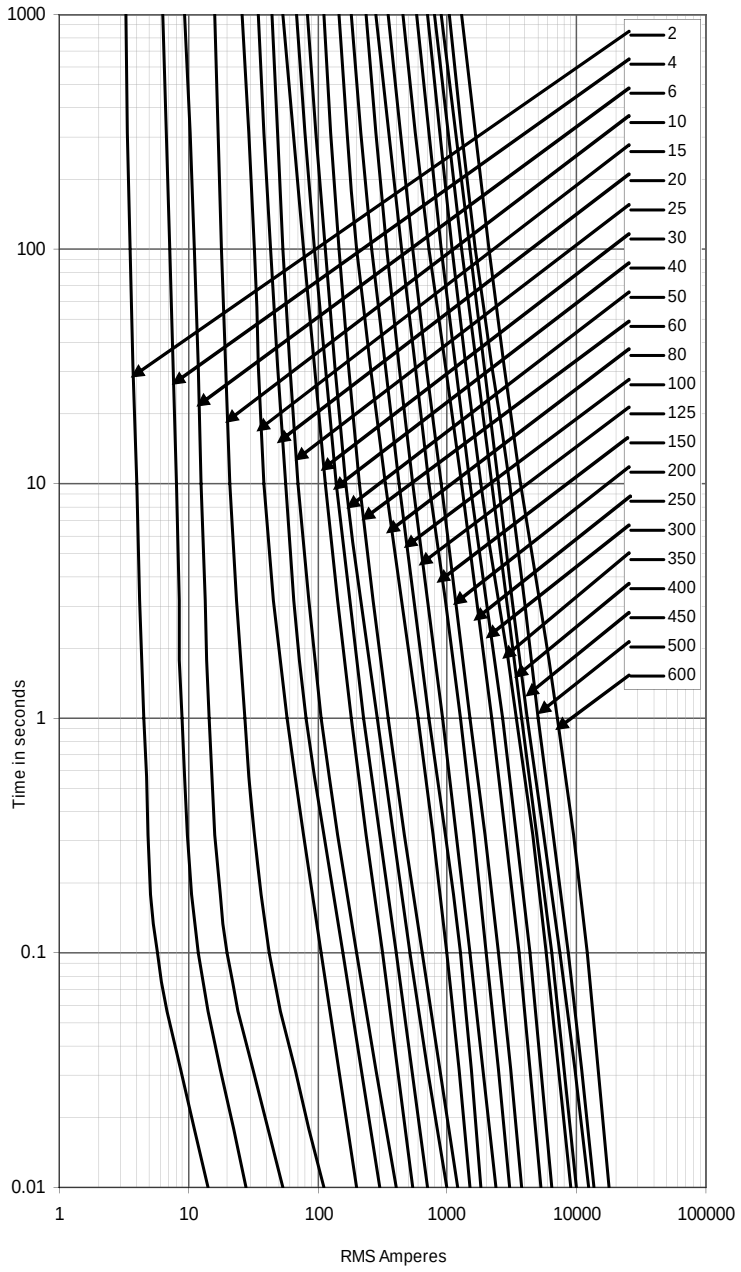
How to use motor tables

- Select voltage range.
- Select standard (STD) or heavy duty column column.
- Read off amp rating of fuse opposite appropriate motor HP size and under appropriate column.

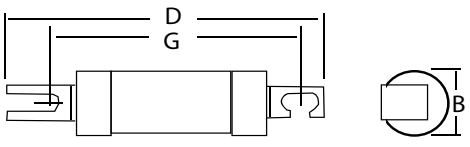
Motor Selection table for Class C fuses

575/600Vac				460/480Vac				230/240Vac			
Motor data		Fuse rating		Motor data		Fuse rating		Motor data		Fuse rating	
HP	FLA	Overload type		HP	FLA	Overload type		HP	FLA	Overload type	
		STD	HEAVY			STD	HEAVY			STD	HEAVY
3/4	1.1	4	4	3/4	1.4	6	6	3/4	2.8	10	10
1	1.4	6	6	1	1.8	6	6	1	3.6	15	15
1.5	2.1	6	6	1.5	2.6	10	10	1.5	5.2	15	15
2	2.7	10	10	2	3.4	10	15	2	6.8	20	20
3	3.9	15	15	3	4.8	15	15	3	9.6	25	25
5	6.1	15	20	5	7.6	20	20	5	15.2	30	40
7.5	9	20	25	7.5	11	25	30	7.5	22	40	50
10	11	25	30	10	14	30	30	10	28	60	60
15	17	30	40	15	21	40	50	15	42	80	80
20	22	40	50	20	27	50	60	20	54	100	100
25	27	50	60	25	34	80	80	25	68	125	125
30	32	60	80	30	40	80	80	30	80	125	150
40	41	80	80	40	52	100	100	40	104	150	200
50	52	80	100	50	65	100	125	50	130	200	250
60	62	100	125	60	77	125	125	60	154	250	250
75	77	125	125	75	96	150	150	75	192	250	300
100	99	150	150	100	124	200	200	100	248	300	350
125	125	200	200	125	156	250	250	125	312	400	450
150	144	200	250	150	180	250	300	150	360	450	500
200	192	250	300	200	240	300	350	200	480	500	600
250	237	300	350	250	296	350	400	250	-	-	-
300	284	350	400	300	354	400	450	300	-	-	-
350	328	400	450	350	410	450	500	350	-	-	-
400	374	450	500	400	467	500	600	400	-	-	-

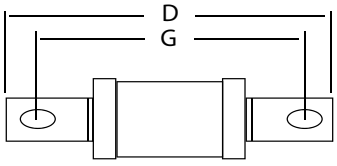
Melt Time Current Characteristics



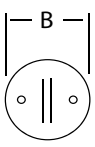
General Specifications					
Part Number	Amps	Total A2s	Dimensions G	D	B
CIA	2	6.5	73	90	26
	4	20			
	6	70			
	10	320			
	15	740			
	20	1400			
	25	2000			
	30	6300			
CIS	40	10K	73	90	26
	50	17K			
	60	28K			
CCP	80	45K	93	111	35
	100	64K			
CFP	125	95K	93	11	35
	150	180K			
	200	280K			
CM	250	600K	133	210	61
	300	900K			
	350	1.7M			
	400	2.1M			
CLM	450	2.6M	133	210	
	500	3.2M			
	600	5.4M			
CC	80	45K	111	136	35
	100	64K			
CF	125	95K	111	136	35
	150	180K			
	200	280K			
CMF	250	600K	111	136	61
	300	900K			
	350	1.7M			
	400	2.1M			

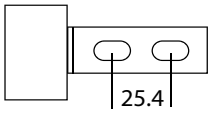


CIA, CIS, CCP, CFP



CC, CF, CMF





CM, CLM