NEMA Full-voltage Combination Starters
CR340, CR341
Heaters

Class 20 Overload Heaters

For use with single and polyphase motors. For continuous rated motors with a service factor of 1.15 to 1.25, select heaters from the heater table for the motor full-load amperes. This provides a maximum of 125% protection.
For continuous rated motors with 1.0 service factor, multiply the full-load amperes of the motor by 0.90 and use this value to select heaters.

Ordering Information

All heaters listed are packaged in multiples of three. Items of these heaters should be ordered in quantities of three-unit multiples (such as 3, 6, 9, 12, etc.). The minimum order quantity is three.
Example: (For motors with FLA of 9.28)

Size 1 — Class 20 Overload Relay Heaters

Motor Full-Load Amps.

1-Phase 2-Heaters	3-Phase 3-Heaters	Heater Product Number	Max. Fuse Rating	Max. Breaker Rating	TEC/TECL Rating
.46-.51	.41-.45	CR123C054A	3	—	—
.52-.55	.46-.49	CR123C060A	3	15	—
.56-.61	.50-.53	CR123C066A	3	15	—
.62-.65	.54-.59	CR123C071A	3	15	—
.66-.74	.60-.65	CR123C078A	3	15	—
.75-.88	.66-.76	CR123C087A	3	15	3
.89-.97	.77-.84	CR123C097A	3	15	3
.98-1.05	.85-.93	CR123C109A	3	15	3
1.06-1.10	.94-1.04	CR123C118A	3	15	3
1.11-1.24	1.05-1.15	CR123C131A	3	15	3
1.25-1.35	1.16-1.27	CR123C148A	3	15	3
1.36-1.57	1.28-1.39	CR123C163A	3	15	3
1.58-1.71	1.40-1.55	CR123C184A	6	15	3
1.72-1.91	1.56-1.73	CR123C196A	6	15	3
1.92-2.07	1.74-1.89	CR123C220A	6	15	3
2.08-2.26	1.90-2.05	CR123C239A	6	15	3
2.27-2.55	2.06-2.28	CR123C268A	6	15	3
2.56-2.76	2.29-2.47	CR123C301A	6	15	3
2.77-3.19	2.48-2.79	CR123C326A	10	15	7
3.20-3.67	2.80-3.31	CR123C356A	10	15	7
3.68-3.96	3.32-3.70	CR123C379A	10	15	7
3.97-4.60	3.71-4.06	CR123C419A	15	15	7
4.61-4.87	4.07-4.47	CR123C466A	15	15	7
4.88-5.57	4.48-4.95	CR123C526A	15	15	7
5.58-6.15	4.96-5.49	CR123C592A	20	20	7
6.16-6.62	5.50-5.91	CR123C630A	20	20	7
6.63-7.11	5.92-6.47	CR123C695A	25	20	15
7.12-7.92	6.48-7.20	CR123C778A	25	20	15
7.93-9.11	7.21-8.22	CR123C867A	30	30	15
9.12-9.59	8.23-8.72	CR123C955A	30	30	15
9.60-10.7	8.73-9.67	CR123C104B	35	30	15
10.8-12.5	9.68-10.4	CR123C113B	35	30	15
12.6-13.5	10.5-11.0	CR123C125B	40	40	15
13.6-14.3	11.1-12.4	CR123C137B	45	40	15
14.4-15.2	12.5-13.2	CR123C151B	50	50	15, 30
15.3-18.1	13.3-15.4	CR123C163B	60	50	30
18.2-19.7	15.5-17.1	CR123C180B	60	50	30
19.8-20.9	17.2-18.1	CR123C198B	70	50	30
21.0-22.1	18.2-20.0	CR123C214B	70	50	30
22.2-23.9	20.1-21.5	CR123C228B	80	50	30
24.0-25.2	21.6-22.5	CR123C250B	80	70	30
25.3-26.0	22.6-23.9	CR123C273B	80	70	30
26.1-27.0	24.0-26.3	CR123C303B	90	70	30, 50
—	26.4-27.0	CR123C330B	90	70	50

Size 2 — Class 20 Overload Relay Heaters

Motor Full-Load Amps.

1-Phase 2-Heaters	3-Phase 3-Heaters	Heater Product Number	Max. Fuse Rating	Max Breaker Rating	TEC/TECL Rating
5.98-6.48	5.48-5.85	CR123C630A	20	—	—
6.49-7.27	5.86-6.47	CR123C695A	20	—	—
7.28-8.16	6.48-7.35	CR123C778A	25	—	—
8.17-9.03	7.36-8.06	CR123C867A	30	—	—
9.04-9.52	8.07-9.03	CR123C955A	30	—	—
9.53-10.4	9.04-9.61	CR123C104B	35	30	15
10.5-11.6	9.62-10.5	CR123C113B	35	30	15
11.7-12.9	10.6-11.6	CR123C125B	40	40	15
13.0-13.8	11.7-12.5	CR123C137B	45	40	15
13.9-15.0	12.6-13.6	CR123C151B	50	50	15
15.1-17.7	13.7-16.7	CR123C163B	60	50	30
17.8-20.1	16.8-17.9	CR123C180B	60	50	30
20.2-21.9	18.0-18.7	CR123C198B	70	70	30
22.0-23.7	18.8-20.4	CR123C214B	80	70	30
23.8-25.1	20.5-22.7	CR123C228B	80	70	30
25.2-27.8	22.8-24.7	CR123C250B	90	70	30
27.9-28.4	24.8-26.3	CR123C273B	90	70	30
28.5-31.9	26.4-29.5	CR123C303B	100	100	30, 50
32.0-35.3	29.6-32.5	CR123C330B	100	100	50
35.4-40.9	32.6-36.7	CR123C366B	100	100	50
41.0-45.0	36.8-41.9	CR123C400B	100	100	50
—	42.0-43.2	CR123C440B	100	100	50
—	43.3-45.0	CR123C460B	100	100	—

Size 3 — Standard Or Ambient Compensated Class 20 Overload Relay Heaters

Motor Full-Load Amps.

3-Phase 3-Heaters	Heater Product Number	Max. Fuse Rating	Max. Breaker Rating	TEC/TECL Rating
17.4-18.4	CR123F233B	70	70	30
18.5-21.1	CR123F243B	80	70	30
21.2-22.1	CR123F270B	80	70	30
22.2-26.1	CR123F300B	90	70	30
26.2-28.0	CR123F327B	100	100	50
28.1-31.3	CR123F357B	100	100	50
31.4-33.3	CR123F395B	100	100	50
33.4-34.3	CR123F430B	100	100	50
34.4-40.9	CR123F487B	100	100	50
41.0-44.7	CR123F567B	100	100	50, 100
44.8-51.0	CR123F614B	100	125	100
51.1-52.0	CR123F658B	100	125	100
52.1-55.4	CR123F719B	100	125	100
55.5-63.3	CR123F772B	100	150	100
63.4-66.1	CR123F848B	100	150	100
66.2-73.5	CR123F914B	100	150	100
73.6-82.2	CR123F104C	100	150	100
82.3-90.0	CR123F114C	100	150	100

Size 4 — Class 20 Overload Relay Heaters

Motor Full-Load Amps.

3-Phase 3-Heaters	Heater Product Number	Max. Fuse Rating	Max. Breaker Rating	TEC/TECL Rating
28.8-31.1	CR123F357B	110	100	50
31.2-33.3	CR123F395B	125	100	50
33.4-35.6	CR123F430B	125	100	50
35.7-42.6	CR123F487B	150	100	50, 100
42.7-45.2	CR123F567B	175	125	50, 100
45.3-51.1	CR123F614B	175	150	100
51.2-53.9	CR123F658B	200	150	100
54.0-56.9	CR123F719B	200	150	100
57.0-65.2	CR123F772B	200	175	100
65.3-68.6	CR123F848B	200	200	100
68.7-74.0	CR123F914B	200	200	100
74.1-86.0	CR123F104C	200	200	100, 150
86.1-90.7	CR123F114C	200	225	150
90.8-103	CR123F118C	200	225	150
104-109	CR123F133C	200	225	150
110-119	CR123F149C	200	225	150
120-131	CR123F161C	200	225	150
132-135	CR123F174C	200	225	150

For additional information and pricing, reference the Control Catalog, GEP-1260P, or go to www.geelectrical.com