



Overload Heater Tables

Overload Relays

Electronic Overloads for Circuit Breaker Controllers

Tripping current is 120% of Dial setting. Motors with 1.15-1.25 service factor, set dial to motor FLA Motors with 1.0 service factor, set dial to 0.9 motor FLA.

NEMA Size	FLA Range in Amps	Catalog Number	Breaker Frame & Type
1	0.8 to 1.59	CR324CXD	E Mag. & Thermal Mag.
1	1.6 to 3.19	CR324CXE	E Mag. & Thermal Mag.
1	3.2 to 6.49	CR324CXF	E Mag. & Thermal Mag.
1	6.5 to 12.8	CR324CXG	E Mag. & Thermal Mag.
1	13 to 27	CR324CXH	E Mag. & Thermal Mag.
2	13 to 25.6	CR324DXG	E Mag. & Thermal Mag.
2	26 to 49.9	CR324DXH	E Mag. & Thermal Mag.
2	50 to 100	CR324DXJ	E Mag. & Thermal Mag.
3	17 to 34.9	CR324FXK	E Mag. & Thermal Mag.
3	35 to 64.9	CR324FXL	E Mag. & Thermal Mag.
3	65 to 90	CR324FXM	E Mag. & Thermal Mag.
4	17 to 34.9	CR324FXK	E,F&G Mag. & Thermal Mag.
4	35 to 64.9	CR324FXL	E,F&G Mag. & Thermal Mag.
4	65 to 135	CR324FXM	E,F&G Mag. & Thermal Mag.
5 ①	32 to 64.0	CR324GXN	G Mag. & Thermal Mag.
5 ①	65 to 129.9	CR324GXP	G Mag. & Thermal Mag.
5 ①	130 to 270	CR324GXQ	G Mag. & Thermal Mag.
6 ②	130 to 259.9	CR324HXS	G,K Mag. & Thermal Mag.
6 ②	260 to 540	CR324HXT	K Mag. & Thermal Mag.

① 300:15 CT's

② 800:5 CT's

Overload Relays for Compact 6" Starter CL45A310MJ, NEMA Size 1

FLA Range in Amps	Class 10 Catalog Number	Class 20 Catalog Number	Breaker Frame & Type
0.4-.65	RTN1D		E Mag. & Thermal Mag.
0.65-1.1	RTN1F		E Mag. & Thermal Mag.
1-1.5	RTN1G		E Mag. & Thermal Mag.
1.3-1.9	RTN1H		E Mag. & Thermal Mag.
1.8-2.7	RTN1J		E Mag. & Thermal Mag.
2.5-4.1	RTNIK	RT12K	E Mag. & Thermal Mag.
4.0-6.3	RTNIL	RT12L	E Mag. & Thermal Mag.
5.5-8.5	RTNIM	RT12M	E Mag. & Thermal Mag.
8.0-12	RTNIN	RT12N	E Mag. & Thermal Mag.
10.0-16	RTNIP	RT12P	E Mag. & Thermal Mag.
14.5-18	RTNIS	RT12S	E Mag. & Thermal Mag.
17.5-22	RTNIT	RT12T	E Mag. & Thermal Mag.
21-26	RTNIU	RT12U	E Mag. & Thermal Mag.



Overload Heater Tables

Heaters for Fused Controllers

Size 3 (Standard)

Motor Full-Load Amps 3-Ph., 3-Heater	Heater Number CR123	Maximum Fuse Rating
19.0-19.3	F233B	70
19.4-22.1	F243B	80
22.2-23.4	F270B	80
23.5-27.0	F300B	90
27.1-29.1	F327B	100
29.2-31.8	F357B	110 ^①
31.9-33.9	F395B	125 ^①
34.0-37.6	F430B	125 ^①
37.7-41.9	F487B	150 ^①
42.0-47.7	F567B	175 ^①
47.8-52.1	F614B	175 ^①
52.2-55.8	F658B	200 ^①
55.9-59.7	F719B	200 ^①
59.8-68.1	F772B	200 ^①
68.2-71.5	F848B	200 ^①
71.6-78.2	F914B	200 ^①
78.3-87.5	F104C	200 ^①
87.6-90.0	F114C	200 ^①

Size 4 (Ambient Comp.)

Motor Full-Load Amps 3-Ph., 3-Heater	Heater Number CR123	Maximum Fuse Rating
28.8-32.0	F357B	110
32.1-34.2	F395B	125
34.3-36.7	F430B	125
36.8-43.9	F487B	150
44.0-46.6	F567B	175
46.7-52.6	F614B	175
52.7-55.6	F658B	200
55.7-58.7	F719B	225 ^①
58.8-67.1	F772B	225 ^①
67.2-70.6	F848B	250 ^①
70.7-76.3	F914B	275 ^①
76.4-88.7	F104C	300 ^①
88.8-93.4	F114C	350 ^①
93.5-105	F118C	350 ^①
106-114	F133C	400 ^①
115-128	F149C	400 ^①
129-131	F161C	400 ^①
132-135	F174C	400 ^①

Size 3 (Ambient Comp.)

Motor Full-Load Amps 3-Ph., 3-Heater	Heater Number CR123	Maximum Fuse Rating
17.8-18.4	F233B	70
18.5-21.1	F243B	80
21.2-22.1	F270B	80
22.2-26.1	F300B	90
26.2-28.0	F327B	100
28.1-31.3	F357B	110 ^①
31.4-33.3	F395B	125 ^①
33.4-34.3	F430B	125 ^①
34.4-40.9	F487B	150 ^①
41.0-44.7	F567B	150 ^①
44.8-51.0	F614B	175 ^①
51.1-52.0	F658B	200 ^①
52.1-55.4	F719B	200 ^①
55.5-63.3	F772B	200 ^①
63.4-66.1	F848B	200 ^①
66.2-73.5	F914B	200 ^①
73.6-82.2	F104C	200 ^①
82.3-90.0	F114C	200 ^①

Size 5 – 300:15CT (Standard and Ambient Comp.)

Motor Full-Load Amps 3-Ph., 3-Heater	Heater Number CR123	Maximum Fuse Rating
109-118	C592A	600
119-128	C630A	600
129-138	C695A	600
139-155	C778A	600
156-168	C867A	600
169-184	C955A	600
185-200	C104B	600
201-221	C113B	600
222-237	C125B	600
238-262	C137B	600
263-270	C151B	600

Electronic Overload Table for Fusible Controllers

Tripping current is 120% of Dial setting. Motors with 1.15-1.25 service factor, set dial to motor FLA. Motors with 1.0 service factor, set dial to 0.9 motor FLA.

Size 4 (Standard)

Motor Full-Load Amps 3-Ph., 3-Heater	Heater Number CR123	Maximum Fuse Rating
27.1-32.2	F357B	110
32.3-34.0	F395B	125
34.1-36.8	F430B	125
36.9-44.6	F487B	150
44.7-48.4	F567B	175
48.5-53.9	F614B	175
54.0-57.4	F658B	200
57.5-60.0	F719B	225 ^①
60.1-69.5	F772B	225 ^①
69.6-71.7	F848B	250 ^①
71.8-79.9	F914B	275 ^①
80.0-92.3	F104C	300 ^①
92.4-97.0	F114C	350 ^①
97.1-108	F118C	400 ^①
109-118	F133C	400 ^①
119-131	F149C	400 ^①
132-135	F161C	400 ^①

NEMA Size	FLA Range in Amps	Catalog Number	Max. Fuse in Amps	
1	0.8 to 1.59	CR324CXD	Class R 30	Class J 60
1	1.6 to 3.19	CR324CXE		
1	3.2 to 6.49	CR324CXF		
1	6.5 to 12.8	CR324CXG		
1	13 to 27	CR324CXH		
2	13 to 25.6	CR324DXG	60	100
2	26 to 49.9	CR324DXH		
2	50 to 100	CR324DXJ		
3	17 to 34.9	CR324FXK	100	200
3	35 to 64.9	CR324FXL		
3	65 to 90	CR324FXM		
4	17 to 34.9	CR324FXK	200	400
4	35 to 64.9	CR324FXL		
4	65 to 135	CR324FXM		
5 ①	32 to 64.0	CR324GXN	400	600
5 ①	65 to 129.9	CR324GXP		
5 ①	130 to 270	CR324GXQ		
6 ②	130 to 259.9	CR324HXS	600	Class L 1200
6 ②	260 to 540	CR324HXT		

① 300:15 CT's

② 800:5 CT's

① See Table 1 (page J-17) for maximum fuse and short-circuit rating.