

Type B100, Single- and Three-Phase Starters

Table 38-9. Heater Selection

Motor Full Load Current	Max. Fuse Amps	Catalog Number	Price U.S. \$	Motor Full Load Current	Max. Fuse Amps	Catalog Number	Price U.S. \$
Single-Phase Enclosed Starters ①			Three-Phase Enclosed Starters ②				
.28 – .29	1	FH03		.25 – .26	1	FH03	
.30 – .33	1	FH04		.27 – .29	1	FH04	
.34 – .36	1	FH05		.30 – .32	1	FH05	
.37 – .40	1	FH06		.33 – .35	1	FH06	
.41 – .45	1	FH07		.36 – .39	1	FH07	
.46 – .50	1	FH08		.40 – .44	1	FH08	
.51 – .56	1	FH09		.45 – .49	1	FH09	
.57 – .63	2	FH10		.50 – .55	1	FH10	
.64 – .70	2	FH11		.56 – .61	2	FH11	
.71 – .78	2	FH12		.62 – .68	2	FH12	
.79 – .86	2	FH13		.69 – .75	2	FH13	
.87 – .95	3	FH14		.78 – .83	2	FH14	
.96 – 1.04	3	FH15		.84 – .91	3	FH15	
1.05 – 1.14	3	FH16		.92 – 1.00	3	FH16	
1.15 – 1.25	4	FH17		1.01 – 1.10	3	FH17	
1.26 – 1.39	4	FH18		1.11 – 1.22	4	FH18	
1.40 – 1.54	5	FH19		1.23 – 1.35	4	FH19	
1.55 – 1.71	5	FH20		1.36 – 1.50	5	FH20	
1.72 – 1.89	6	FH21		1.51 – 1.66	5	FH21	
1.90 – 2.10	7	FH22		1.67 – 1.84	6	FH22	
2.11 – 2.32	8	FH23		1.85 – 2.03	7	FH23	
2.33 – 2.54	8	FH24		2.04 – 2.23	7	FH24	
2.55 – 2.79	9	FH25		2.24 – 2.45	8	FH25	
2.80 – 3.07	10	FH26		2.46 – 2.69	9	FH26	
3.08 – 3.36	10	FH27		2.70 – 2.95	10	FH27	
3.37 – 3.68	10	FH28		2.96 – 3.23	10	FH28	
3.69 – 4.03	10	FH29		3.24 – 3.53	10	FH29	
4.04 – 4.40	15	FH30		3.54 – 3.85	10	FH30	
4.41 – 4.81	15	FH31		3.86 – 4.22	10	FH31	
4.82 – 5.26	15	FH32		4.23 – 4.61	15	FH32	
5.27 – 5.74	15	FH33		4.62 – 5.03	15	FH33	
5.75 – 6.26	20	FH34		5.04 – 5.49	15	FH34	
6.27 – 6.83	20	FH35		5.50 – 5.99	20	FH35	
6.84 – 7.45	25	FH36		6.00 – 6.53	20	FH36	
7.46 – 8.11	25	FH37		6.54 – 7.11	25	FH37	
8.12 – 8.81	30	FH38		7.12 – 7.73	25	FH38	
8.82 – 9.58	30	FH39		7.74 – 8.40	25	FH39	
9.59 – 10.40	35	FH40		8.41 – 9.12	30	FH40	
10.41 – 11.30	35	FH41		9.13 – 9.89	35	FH41	
11.40 – 12.20	40	FH42		9.90 – 10.70	35	FH42	
12.30 – 13.50	45	FH43		10.80 – 11.80	40	FH43	
13.60 – 14.90	50	FH44		11.90 – 13.00	45	FH44	
15.00 – 16.00	50	FH45		13.10 – 14.00	50	FH45	
16.10 – 17.10	60	FH46		14.10 – 15.00	50	FH46	
17.20 – 18.30	60	FH47		15.10 – 16.10	50	FH47	
18.40 – 19.70	70	FH48		16.20 – 17.30	60	FH48	
19.80 – 21.20	70	FH49		17.40 – 18.60	60	FH49	
21.30 – 22.80	80	FH50		18.70 – 20.00	70	FH50	
22.90 – 24.50	88	FH51		20.10 – 21.50	70	FH51	
24.60 – 26.40	90	FH52		21.60 – 23.20	80	FH52	
26.50 – 28.50	90	FH53		23.30 – 25.00	80	FH53	
28.60 – 30.80	100	FH54		25.10 – 26.80	90	FH54	
30.90 – 33.30	110	FH55					
33.40 – 36.00	125	FH56					
36.10 – 38.90	125	FH57					

① Single-Phase Starters require two overload heaters.
 ② Three-Phase Starters require three overload heaters.

Note: FH Series heaters are for Type B100 manual motor starters. Heater element selection is based on motor nameplate's listed full load amperes. Trip rating of this series of elements is 125% of minimum motor full load amperes listed for the element.

When motor and overload relay are in the same ambient and the service factor of the motor is 1.15 to 1.25, select heaters from the heater selection table. If the service factor is 1.0 or less (including zero), or a maximum of 115% protection is desired, select a heater one size smaller than indicated for the amperage range required.