



Thermal Unit Selection

For Superseded Devices

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THERMAL UNIT SELECTION TABLES FOR OBSOLETE STARTERS

Controller					Thermal Unit Selection Table Number					Selection Table Number										
					Hand Reset Melting Alloy			Automatic Reset Bimetallic		Hand Reset Melting Alloy			Automatic Reset Bimetallic							
Type of Starter	Class	Type	Series*	Size	Standard Trip	Fast Trip	Slow Trip	Non-Compensated	Compensated	Type of Starter	Class	Type	Series*	Size	Standard Trip	Fast Trip	Slow Trip	Non-Compensated	Compensated	
Manual Starters	2510 2511 2512	B, C	A, B	M0 M1 M1P	1 1 1										17	37	..	
	8925	KB, KC	(All)																	
DC Magnetic Starters	7032 7033	C	(All)	1	2										18	27	..	36	..	
	7135 7136 7735 7736	C, D	..	1, 2	3															
		E	..	3	4											
		F	..	4	5											
		G	..	5	5, 6											
AC Magnetic Starters (Small Enclosure)	8536 8904 (Starter In Own Enclosure)	B	A	0	9	20	..	29	..						19	30	..	7	..	
		C	A, B	1, 1P	9	20	..	29	..											
		D	A	2	10	21	..	31	..											
		E	A	3	11	24	..	32	..											
		F	C	4	12	25	..	33	..											
		G	B, C	5	14	..	..	34	..									
		H	B	6	16	..	..	35	38									
		J	B	7	16	..	..	35	38									
		K	B	8	16	..	..	35	38									
		8993	E	A	3	11	24	..	32											..
	8998 8999 (Model 3 Control Center)	I Line and OMB Motor Starters	F	C	4	12	25	..	33											..
G			B, C	5	14	..	..	34	..									
H			B, C	6	16	..	..	35	38									
J			A, B	7	16	..	..	35	38									
K			A, B	8	16	..	..	35	38									
8998 8999 (Model 4 Control Center)				E	A	3, 3PW	11	24	..	32	..									
				F	C	4, 4PW	12	25	..	33	..									
	G	B, C		5, 5PW	14	..	..	34	..									
	H	B, C		6, 6PW	16	..	..	35	38									
	J	A, B		7	16	..	..	35	38									
	K	A, B		8	16	..	..	35	38									

Controller					Selection Table Number				
Type of Starter	Class	Type	Series*	Size	Standard Trip	Fast Trip	Slow Trip	Non-Compensated	Compensated
AC Magnetic Starters (Large Enclosure)	8536 (Starter Used in Multi-Motor Panel)	A	A, B, C	00	17	..	..	37	..
		B	A	0	18	27	..	36	..
		C	A, B	1, 1YD, 1PW	18	27	..	36	..
		D	A	2, 2YD, 2PW	10	21	..	23	..
		E	A	3, 3YD, 3PW	11	28	..	15	..
		F	C	4, 4YD, 4PW	19	30	..	7	..
		G	B, C	5, 5YD, 5PW	22	..	..	26	..
		H	B	6, 6YD, 6PW	16	..	..	35	38
		J	B	7, 7YD, 7PW	16	..	..	35	38
		K	B	8, 8YD	16	..	..	35	38

*Series letters listed refer to the marking on the nameplate of the basic open type starter. When the starter is supplied in a controller containing other devices, the controller may have a different Series letter marked on the enclosure nameplate. If no series designation appears on the starter nameplate or if the series letter is not listed in the index above, then refer to the index on page 20.

□ Small enclosure tables apply for Class 8904 non-combination and non-reversing starters. For combination and reversing Class 8904 starters refer to the large enclosure selection index.

● For Class 8630 starters divide the delta connected motor full load current by 1.73, and use this quotient to select thermal units.

▲ For Class 8640 starters use the full load current of each motor winding as a basis for thermal unit selection — normally one-half total motor current.

■ Large enclosure tables apply for Class 8904 combination and reversing starters. For non-combination and non-reversing Class 8904 starters refer to small enclosure selection index.

INSTRUCTIONS — See Overload And Short Circuit Protection

SELECTION TABLES 1 THRU 7

TABLE 1

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.32-0.36	B 0.44
0.37-0.41	B 0.51
0.42-0.46	B 0.57
0.47-0.52	B 0.63
0.53-0.59	B 0.71
0.60-0.67	B 0.81
0.68-0.77	B 0.92
0.78-0.85	B 1.03
0.86-0.93	B 1.16
0.94-1.03	B 1.30
1.04-1.17	B 1.45
1.18-1.31	B 1.67
1.32-1.46	B 1.88
1.47-1.65	B 2.10
1.66-1.85	B 2.40
1.86-2.12	B 2.65
2.13-2.36	B 3.00
2.37-2.65	B 3.30
2.66-3.03	B 3.70
3.04-3.48	B 4.15
3.49-4.00	B 4.85
4.01-4.51	B 5.50
4.52-4.96	B 6.25
4.97-5.52	B 6.90
5.53-5.87	B 7.70
5.88-6.47	B 8.20
6.48-7.23	B 9.10
7.24-8.07	B 10.2
8.08-8.95	B 11.5
8.96-9.67	B 12.8
9.68-10.7	B 14
10.8-12.1	B 15.5
12.2-13.6	B 17.5
13.7-15.3	B 19.5
15.4-17.3	B 22
17.4-18.0	B 25
Following Selections For Size 1 and 1P Only	
17.4-19.4	B 25
19.5-22.4	B 28.0
22.5-24.9	B 32
25.0-27.0	B 36
...	B 40
Following Selections For Size 1P Only	
25.0-28.1	B 36
28.2-31.3	B 40
31.4-36.0	B 45

TABLE 4

Motor Full-Load Current (Amp.)	Thermal Unit Number
15.3-16.7	C 20
16.8-19.8	C 22
19.9-22.8	C 26
22.9-25.8	C 30
25.9-30.4	C 34
30.5-31.9	C 40
32.0-34.2	C 42
34.3-38.8	C 45
38.9-44.2	C 51
44.3-50.2	C 58
50.3-57.1	C 66
57.2-63.2	C 75
63.3-68.6	C 83
68.7-78.6	C 90
78.7-86.9	C 103
87.0-100.	C 114

TABLE 2

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.29-0.33	B 0.44
0.34-0.37	B 0.51
0.38-0.41	B 0.57
0.42-0.47	B 0.63
0.48-0.54	B 0.71
0.55-0.61	B 0.81
0.62-0.68	B 0.92
0.69-0.76	B 1.03
0.77-0.86	B 1.16
0.87-0.97	B 1.30
0.98-1.11	B 1.45
1.12-1.25	B 1.67
1.26-1.40	B 1.88
1.41-1.60	B 2.10
1.61-1.77	B 2.40
1.78-2.00	B 2.65
2.01-2.21	B 3.00
2.22-2.47	B 3.30
2.48-2.78	B 3.70
2.79-3.26	B 4.15
3.27-3.69	B 4.85
3.70-4.16	B 5.50
4.17-4.63	B 6.25
4.64-5.17	B 6.90
5.18-5.51	B 7.70
5.52-6.11	B 8.20
6.12-6.84	B 9.10
6.85-7.71	B 10.2
7.72-8.59	B 11.5
8.60-9.37	B 12.8
9.38-10.3	B 14
10.4-11.6	B 15.5
11.7-13.0	B 17.5
13.1-14.6	B 19.5
14.7-16.6	B 22
16.7-18.7	B 25
18.8-21.3	B 28.0
21.4-24.1	B 32
24.2-25.0	B 36

TABLE 5

Motor Full-Load Current (Amp.)	Thermal Unit Number
38.5-40.7	DD 48
40.8-44.9	DD 51
45.0-49.3	DD 55
49.4-52.8	DD 59
52.9-57.5	DD 63
57.6-62.6	DD 68
62.7-67.6	DD 73
67.7-72.9	DD 79
73.0-79.4	DD 91
79.5-86.4	DD 98
86.5-91.9	DD 105
92.0-100	DD 112
101-109	DD 121
110-119	DD 128
120-131	DD 140
132-139	DD 150
140-150	DD 160

TABLE 7

Motor Full-Load Current (Amp.)	Thermal Unit Number
43.6-48.7	AU 56
48.8-53.7	AU 64
53.8-59.6	AU 72
59.7-66.7	AU 81
66.8-73.9	AU 88
74.0-79.6	AU 99
79.7-88.8	AU 110
88.9-95.6	AU 123
95.7-105	AU 135
106-108	AU 152
109-118	AU 169
119-135	AU 183

TABLE 3

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.31-0.35	B 0.44
0.36-0.39	B 0.51
0.40-0.44	B 0.57
0.45-0.50	B 0.63
0.51-0.58	B 0.71
0.59-0.65	B 0.81
0.66-0.73	B 0.92
0.74-0.82	B 1.03
0.83-0.92	B 1.16
0.93-1.03	B 1.30
1.04-1.19	B 1.45
1.20-1.34	B 1.67
1.35-1.50	B 1.88
1.51-1.67	B 2.10
1.68-1.89	B 2.40
1.90-2.14	B 2.65
2.15-2.36	B 3.00
2.37-2.65	B 3.30
2.66-2.97	B 3.70
2.98-3.47	B 4.15
3.48-3.94	B 4.85
3.95-4.44	B 5.50
4.45-4.94	B 6.25
4.95-5.52	B 6.90
5.53-5.88	B 7.70
5.89-6.52	B 8.20
6.53-7.31	B 9.10
7.32-8.21	B 10.2
8.22-9.18	B 11.5
9.19-9.90	B 12.8
10.0-11.0	B 14
11.1-12.4	B 15.5
12.5-13.9	B 17.5
14.0-15.7	B 19.5
15.8-17.8	B 22
17.9-20.0	B 25
20.1-22.9	B 28.0
23.0-25.0	B 32
Following Selections For Size 2 Only	
23.0-25.7	B 32
25.8-28.6	B 36
28.7-32.2	B 40
32.3-35.8	B 45
35.9-40.1	B 50
40.2-44.4	B 56
44.5-50.0	B 62

TABLE 6

Motor Full-Load Current (Amp.)	Thermal Unit Number
140-156	DD 160
157-166	DD 185
167-180	DD 213
181-189	DD 220
190-209	DD 230
210-225	DD 250
226-238	DD 265
239-263	DD 280
264-300	DD 300

SELECTION TABLES 8 THRU 15

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SUPPLEMENTARY

TABLE 8

Motor Full-Load Current (Amp.)			Thermal Unit Number
1 T. U.	2 T. U.	3 T. U.	
0.42-0.46	0.39-0.43	0.38-0.40	A .49
0.47-0.50	0.44-0.47	0.41-0.44	A .54
0.51-0.55	0.48-0.52	0.45-0.49	A .59
0.56-0.62	0.53-0.58	0.50-0.55	A .65
0.63-0.67	0.59-0.64	0.56-0.60	A .71
0.68-0.73	0.65-0.68	0.61-0.65	A .78
0.74-0.81	0.69-0.77	0.66-0.72	A .86
0.82-0.89	0.78-0.84	0.73-0.79	A .95
0.90-0.98	0.85-0.93	0.80-0.88	A 1.02
0.99-1.12	0.94-1.05	0.89-0.98	A 1.16
1.13-1.20	1.06-1.13	0.99-1.07	A 1.25
1.21-1.34	1.14-1.25	1.08-1.17	A 1.39
1.35-1.41	1.26-1.33	1.18-1.25	A 1.54
1.42-1.51	1.34-1.42	1.26-1.33	A 1.63
1.52-1.62	1.43-1.52	1.34-1.44	A 1.75
1.63-1.73	1.53-1.63	1.45-1.53	A 1.86
1.74-1.86	1.64-1.75	1.54-1.65	A 1.99
1.87-2.02	1.76-1.90	1.66-1.79	A 2.15
2.03-2.25	1.91-2.13	1.80-1.99	A 2.31
2.26-2.46	2.14-2.33	2.00-2.18	A 2.57
2.47-2.77	2.34-2.73	2.19-2.45	A 2.81
2.78-2.99	2.74-2.86	2.46-2.65	A 3.61
3.00-3.26	2.87-3.14	2.66-2.90	A 3.95
3.27-3.59	3.15-3.47	2.91-3.19	A 4.32
3.60-3.99	3.48-3.83	3.20-3.56	A 4.79
4.00-4.42	3.84-4.16	3.57-3.83	A 5.30
4.43-4.61	4.17-4.43	3.84-4.08	A 5.78
4.62-5.23	4.44-5.00	4.09-4.64	A 6.20
5.24-5.39	5.01-5.16	4.65-5.00	A 6.99
5.40-5.88	5.17-5.56	5.01-5.36	A 7.65
5.89-6.56	5.57-6.22	5.37-5.87	A 8.38
6.57-7.18	6.23-6.89	5.88-6.43	A 9.25
7.19-7.80	6.90-7.00	6.44-6.79	A 9.85
7.81-9.00	.....	6.80-7.00	A 11.0

TABLE 11

Motor Full-Load Current (Amp.)	Thermal Unit Number
14.4-15.7	C 20
15.8-18.6	C 22
18.7-21.4	C 26
21.5-24.3	C 30
24.4-28.6	C 34
28.7-30.1	C 40
30.2-32.2	C 42
32.3-36.5	C 45
36.6-41.5	C 51
41.6-47.3	C 58
47.4-53.7	C 66
53.8-59.4	C 75
59.5-64.3	C 83
64.4-73.5	C 90
73.6-81.3	C 103
81.4-90.0	C 114

TABLE 14

Motor Full-Load Current (Amp.)	Thermal Unit Number
84.0- 91.4	DD 112
91.5- 99.4	DD 124
99.5-106	DD 128
107-114	DD 140
115-123	DD 150
124-137	DD 160
138-155	DD 185
156-176	DD 220
177-189	DD 250
190-214	DD 265
215-229	DD 300
230-270	DD 320

TABLE 9

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.29- 0.31	B 0.44
0.32- 0.35	B 0.51
0.36- 0.40	B 0.57
0.41- 0.49	B 0.63
0.50- 0.53	B 0.71
0.54- 0.61	B 0.81
0.62- 0.68	B 0.92
0.69- 0.77	B 1.03
0.78- 0.89	B 1.16
0.90- 1.03	B 1.30
1.04- 1.09	B 1.45
1.10- 1.23	B 1.67
1.24- 1.42	B 1.88
1.43- 1.64	B 2.10
1.65- 1.80	B 2.40
1.81- 2.05	B 2.65
2.06- 2.30	B 3.00
2.31- 2.58	B 3.30
2.59- 2.93	B 3.70
2.94- 3.32	B 4.15
3.33- 3.81	B 4.85
3.82- 4.05	B 5.50
4.06- 4.40	B 6.25
4.41- 5.00	B 6.90
5.01- 5.67	B 7.70
5.68- 6.31	B 8.20
6.32- 7.03	B 9.10
7.04- 7.74	B 10.2
7.75- 8.07	B 11.5
8.08- 9.19	B 12.8
9.20- 9.83	B 14
9.84-10.5	B 15.6
10.6-11.3	B 17.5
11.4-12.5	B 19.5
12.6-13.4	B 22
13.5-15.4	B 25
15.5-17.1	B 28.0
Following Selections For Size 1 and 1P Only	
17.2-18.6	B 32
18.7-21.0	B 36
21.1-22.7	B 40
22.8-24.7	B 45
24.8-27.0	B 50
Following Selections For Size 1P Only	
24.8-27.2	B 50
27.3-29.9	B 56
30.0-32.9	B 62
33.0-36.0	B 66

TABLE 12

Motor Full-Load Current (Amp.)	Thermal Unit Number
43.8- 46.3	CC 64.3
46.4- 50.0	CC 68.5
50.1- 54.6	CC 74.6
54.7- 58.4	CC 81.5
58.5- 62.6	CC 87.7
62.7- 68.4	CC 94.0
68.5- 73.3	CC 103
73.4- 78.9	CC 112
79.0- 84.2	CC 121
84.3- 91.9	CC 132
92.0- 99.3	CC 143
99.4-107	CC 156
108-115	CC 167
116-135	CC 180

TABLE 10

Motor Full-Load Current (Amp.)	Thermal Unit Number
3.48- 3.94	B 4.85
3.95- 4.44	B 5.50
4.45- 4.94	B 6.25
4.95- 5.52	B 6.90
5.53- 5.88	B 7.70
5.89- 6.52	B 8.20
6.53- 7.31	B 9.10
7.32- 8.21	B 10.2
8.22- 9.18	B 11.5
9.19- 9.99	B 12.8
10.0-11.0	B 14
11.1-12.4	B 15.5
12.5-13.9	B 17.5
14.0-15.7	B 19.5
15.8-17.8	B 22
17.9-20.0	B 25
20.1-22.9	B 28.0
23.0-25.8	B 32
25.9-28.6	B 36
28.7-32.2	B 40
32.3-35.8	B 45
35.9-40.1	B 50
40.2-45.0	B 56

TABLE 13

Motor Full-Load Current (Amp.)			Thermal Unit Number
1 T. U.	2 T. U.	3 T. U.	
0.43-0.47	0.41-0.45	0.40-0.41	A .49
0.48-0.51	0.46-0.50	0.42-0.46	A .54
0.52-0.56	0.51-0.55	0.47-0.51	A .59
0.57-0.64	0.56-0.62	0.52-0.57	A .65
0.65-0.69	0.63-0.67	0.58-0.62	A .71
0.70-0.76	0.68-0.72	0.63-0.67	A .78
0.77-0.84	0.73-0.81	0.68-0.75	A .86
0.85-0.91	0.82-0.88	0.76-0.80	A .95
0.92-1.01	0.89-0.97	0.81-0.89	A 1.02
1.02-1.15	0.98-1.08	0.90-1.02	A 1.16
1.16-1.23	1.09-1.18	1.03-1.09	A 1.25
1.24-1.37	1.19-1.32	1.10-1.21	A 1.39
1.38-1.45	1.33-1.40	1.22-1.29	A 1.54
1.46-1.56	1.41-1.48	1.30-1.37	A 1.63
1.57-1.67	1.49-1.60	1.38-1.48	A 1.75
1.68-1.77	1.61-1.72	1.49-1.58	A 1.86
1.78-1.92	1.73-1.84	1.59-1.72	A 1.99
1.93-2.09	1.85-2.00	1.73-1.85	A 2.15
2.10-2.31	2.01-2.22	1.86-2.05	A 2.31
2.32-2.56	2.23-2.45	2.06-2.29	A 2.57
2.57-2.92	2.46-2.82	2.30-2.62	A 2.81
2.93-3.16	2.83-3.08	2.63-2.84	A 3.61
3.17-3.48	3.09-3.39	2.85-3.10	A 3.95
3.49-3.83	3.40-3.75	3.11-3.46	A 4.32
3.84-4.24	3.76-4.16	3.47-3.85	A 4.79
4.25-4.62	4.17-4.51	3.86-4.16	A 5.30
4.63-4.92	4.52-4.83	4.17-4.46	A 5.78
4.93-5.61	4.84-5.49	4.47-5.08	A 6.20
5.62-5.85	5.50-5.67	5.09-5.35	A 6.99
5.86-6.36	5.68-6.16	5.36-5.82	A 7.65
6.37-6.99	6.17-6.75	5.83-6.34	A 8.38
7.00-7.67	6.76-7.00	6.35-6.95	A 9.25
7.68-8.15	.....	6.96-7.00	A 9.85
8.16-9.00	.....	.....	A 11.0

TABLE 15

Motor Full-Load Current (Amp.)	Thermal Unit Number
14.4- 16.1	AU 20
16.2- 18.6	AU 23
18.7- 20.5	AU 26
20.6- 23.4	AU 29
23.5- 26.9	AU 33
27.0- 28.3	AU 38
28.4- 30.8	AU 40
30.9- 35.0	AU 44
35.1- 38.8	AU 50
38.9- 44.3	AU 56
44.4- 49.3	AU 64
49.4- 55.5	AU 72
55.6- 61.0	AU 81
61.1- 68.6	AU 88
68.7- 76.3	AU 99
76.4- 85.5	AU 110
85.6-100.0	AU 123

SELECTION TABLES 16 THRU 23

TABLE 16

Size 6	Size 7	Size 8	Thermal Unit Number
Type H	Type J	Type K	
Current Transformer Ratio			
800/5	1200/5	2000/5	
Motor Full-Load Current (Amp.)			Thermal Unit Number
111-124	166-187	277- 312	B 1.03
125-140	188-211	313- 352	B 1.16
141-155	212-232	353- 388	B 1.30
156-178	233-267	389- 445	B 1.45
179-201	268-301	446- 503	B 1.67
202-224	302-336	504- 561	B 1.88
225-255	337-383	562- 640	B 2.10
256-283	384-425	641- 708	B 2.40
284-310	426-466	709- 777	B 2.65
311-347	467-522	778- 870	B 3.00
348-391	523-587	871- 978	B 3.30
392-437	588-656	979-1093	B 3.70
438-509	657-764	....	B 4.15

TABLE 19

Motor Full-Load Current (Amp.)	Thermal Unit Number
45.5- 48.2	CC 64.3
48.3- 52.2	CC 68.5
52.3- 56.8	CC 74.6
56.9- 61.0	CC 81.5
61.1- 66.0	CC 87.7
66.1- 71.7	CC 94.0
71.8- 76.7	CC 103
76.8- 83.1	CC 112
83.2- 89.2	CC 121
89.3- 96.5	CC 132
96.6-104	CC 143
105 -112	CC 156
113 -121	CC 167
122 -135	CC 180

TABLE 22

Motor Full-Load Current (Amp.)	Thermal Unit Number
87.4- 92.9	DD 112
93.0-100	DD 121
101 -108	DD 132
109 -119	DD 140
120 -128	DD 150
129 -144	DD 160
145 -163	DD 185
164 -187	DD 220
188 -207	DD 250
208 -229	DD 280
230 -270	DD 300

TABLE 23

Motor Full-Load Current (Amp.)	Thermal Unit Number
6.84- 7.49	AR 9.3
7.50- 8.05	AR 10.2
8.06- 9.10	AR 11.2
9.11- 9.99	AR 12.4
10.0 -11.1	AR 13.6
11.2 -12.7	AR 15.4
12.8 -14.8	AR 17.6
14.9 -16.6	AR 20.5
16.7 -19.3	AR 23
19.4 -21.4	AR 27
21.5 -25.1	AR 30
25.2 -28.3	AR 35
28.4 -31.2	AR 40
31.3 -33.3	AR 44
33.4 -35.5	AR 47
35.6 -38.5	AR 51
38.6 -45.0	AR 55

TABLE 17

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.34-0.38	B 0.44
0.39-0.43	B 0.51
0.44-0.47	B 0.57
0.48-0.53	B 0.63
0.54-0.62	B 0.71
0.63-0.69	B 0.81
0.70-0.78	B 0.92
0.79-0.88	B 1.03
0.89-0.99	B 1.16
1.00-1.10	B 1.30
1.11-1.26	B 1.45
1.27-1.43	B 1.67
1.44-1.59	B 1.88
1.60-1.81	B 2.10
1.82-2.00	B 2.40
2.01-2.28	B 2.65
2.29-2.52	B 3.00
2.53-2.79	B 3.30
2.80-3.15	B 3.70
3.16-3.59	B 4.15
3.60-4.11	B 4.85
4.12-4.71	B 5.50
4.72-5.19	B 6.25
5.20-5.75	B 6.90
5.76-6.06	B 7.70
6.07-6.66	B 8.20
6.67-7.42	B 9.10
7.43-8.22	B 10.2
8.23-9.00	B 11.5

TABLE 20

Motor Full-Load Current (Amp.)	Thermal Unit Number
2.10- 2.30	FB 3.33
2.31- 2.59	FB 3.71
2.60- 2.84	FB 4.1
2.85- 3.04	FB 4.5
3.05- 3.39	FB 4.75
3.40- 3.89	FB 5.3
3.90- 4.31	FB 6.1
4.32- 4.79	FB 6.75
4.80- 5.03	FB 7.45
5.04- 5.28	FB 7.8
5.29- 5.57	FB 8.21
5.58- 5.75	FB 8.6
5.76- 6.15	FB 9.0
6.16- 6.48	FB 9.5
6.49- 6.83	FB 10
6.84- 7.23	FB 10.6
7.24- 7.57	FB 11.2
7.58- 8.32	FB 12.1
8.33- 8.96	FB 13.1
8.97- 9.56	FB 13.9
9.57-10.0	FB 14.8
10.1 -10.7	FB 15.6
10.8 -11.4	FB 16.4
11.5 -12.0	FB 17.6
12.1 -12.7	FB 18.4
12.8 -13.7	FB 19.4
13.8 -14.6	FB 21.1
14.7 -15.3	FB 22.6
15.4 -16.0	FB 23.6
16.1 -18.0	FB 24.8
Following Selections For Size 1 and 1P Only	
16.1 -17.2	FB 24.8
17.3 -18.3	FB 26.7
18.4 -18.9	FB 28.3
19.0 -19.5	FB 29.6
19.6 -20.7	FB 30.5
20.8 -21.7	FB 32.6
21.8 -22.3	FB 34.1
22.4 -23.1	FB 35
23.2 -24.0	FB 36.6
24.1 -27.0	FB 38.3
Following Selections For Size 1P Only	
24.1 -25.3	FB 38.3
25.4 -26.5	FB 40.2
26.6 -27.5	FB 42
27.6 -28.4	FB 44
28.5 -29.9	FB 46
30.0 -31.2	FB 48
31.3 -36.0	FB 50.5

TABLE 18

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.30- 0.32	B 0.44
0.33- 0.37	B 0.51
0.38- 0.42	B 0.57
0.43- 0.50	B 0.63
0.51- 0.57	B 0.71
0.58- 0.64	B 0.81
0.65- 0.72	B 0.92
0.73- 0.81	B 1.03
0.82- 0.94	B 1.16
0.95- 1.08	B 1.30
1.09- 1.15	B 1.45
1.16- 1.30	B 1.67
1.31- 1.50	B 1.88
1.51- 1.73	B 2.10
1.74- 1.89	B 2.40
1.90- 2.12	B 2.65
2.13- 2.39	B 3.00
2.40- 2.68	B 3.30
2.69- 3.04	B 3.70
3.05- 3.43	B 4.15
3.44- 3.95	B 4.85
3.96- 4.23	B 5.50
4.24- 4.50	B 6.25
4.51- 5.15	B 6.90
5.16- 5.83	B 7.70
5.84- 6.56	B 8.20
6.57- 7.28	B 9.10
7.29- 7.99	B 10.2
8.00- 8.32	B 11.5
8.33- 9.47	B 12.8
9.48-10.0	B 14
10.1 -10.9	B 15.5
11.0 -12.0	B 17.5
12.1 -13.2	B 19.5
13.3 -14.3	B 22
14.4 -15.5	B 25
15.6 -18.0	B 28.0
Following Selections For Size 1 Only	
15.6 -17.9	B 28.0
18.0 -20.1	B 32
20.2 -23.1	B 36
23.2 -24.5	B 40
24.6 -27.0	B 45

TABLE 21

Motor Full-Load Current (Amp.)	Thermal Unit Number
10.6-10.8	FB 14.8
10.9-11.5	FB 15.6
11.6-12.4	FB 16.4
12.5-13.1	FB 17.6
13.2-13.6	FB 18.4
13.7-15.3	FB 19.4
15.4-15.7	FB 21.1
15.8-16.4	FB 22.6
16.5-17.9	FB 23.6
18.0-19.1	FB 24.8
19.2-20.7	FB 26.7
20.8-21.9	FB 28.3
22.0-22.4	FB 29.6
22.5-23.6	FB 30.5
23.7-24.2	FB 32.6
24.3-25.7	FB 34.1
25.8-26.9	FB 35
27.0-27.9	FB 36.6
28.0-29.1	FB 38.3
29.2-30.7	FB 40.2
30.8-31.8	FB 42
31.9-33.5	FB 44
33.6-35.1	FB 46
35.2-36.7	FB 48
36.8-38.3	FB 50.5
38.4-40.2	FB 52.5
40.3-45.0	FB 55.5

SELECTION TABLES 24 THRU 30

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TABLE 24

Motor Full-Load Current (Amp.)	Thermal Unit Number
20.5-21.6	FB 26.7
21.7-23.1	FB 28.3
23.2-24.6	FB 29.6
24.7-26.2	FB 30.5
26.3-27.9	FB 32.6
28.0-29.7	FB 34.1
29.8-33.1	FB 38.3
33.2-35.4	FB 40.2
35.5-37.7	FB 42
37.8-40.1	FB 44
40.2-42.6	FB 46
42.7-45.4	FB 48
45.5-47.6	FB 50.5
47.7-50.1	FB 52.5
50.2-52.0	FB 55.5
52.1-54.5	FB 58
54.6-57.1	FB 60
57.2-62.7	FB 63.5
62.8-70.7	FB 69
70.8-78.5	FB 77
78.6-90.0	FB 84

TABLE 25

Motor Full-Load Current (Amp.)	Thermal Unit Number
21.0- 22.3	FB 26.7
22.4- 23.9	FB 28.3
24.0- 25.7	FB 29.6
25.8- 27.3	FB 30.5
27.4- 29.3	FB 32.6
29.4- 31.3	FB 34.1
31.4- 33.9	FB 38.3
34.0- 36.1	FB 40.2
36.2- 38.7	FB 42
38.8- 41.2	FB 44
41.3- 44.1	FB 46
44.2- 46.9	FB 48
47.0- 50.2	FB 50.5
50.3- 53.3	FB 52.5
53.4- 57.1	FB 55.5
57.2- 61.1	FB 58
61.2- 65.7	FB 60
65.8- 74.5	FB 63.5
74.6- 86.4	FB 69
86.5- 97.5	FB 77
97.6-105	FB 84
106 -116	FB 92
117 -135	FB 105

TABLE 26

Motor Full-Load Current (Amp.)	Thermal Unit Number
84.8-98.3	AF 123
98.4-112	AF 135
113 -130	AF 150
131 -140	AF 159
141 -163	AF 168
164 -180	AF 188
181 -203	AF 205
204 -216	AF 220
217 -231	AF 240
232 -270	AF 260

TABLE 27

Motor Full-Load Current (Amp.)	Thermal Unit Number
2.19- 2.44	FB 3.33
2.45- 2.71	FB 3.71
2.72- 2.99	FB 4.1
3.00- 3.16	FB 4.5
3.17- 3.54	FB 4.75
3.55- 4.06	FB 5.3
4.07- 4.51	FB 6.1
4.52- 4.99	FB 6.75
5.00- 5.23	FB 7.45
5.24- 5.51	FB 7.8
5.52- 5.82	FB 8.21
5.83- 6.08	FB 8.6
6.09- 6.45	FB 9.0
6.46- 6.75	FB 9.5
6.76- 7.17	FB 10
7.18- 7.53	FB 10.6
7.54- 7.86	FB 11.2
7.87- 8.64	FB 12.1
8.65- 9.28	FB 13.1
9.29- 9.83	FB 13.9
9.84-10.5	FB 14.8
10.6 -11.1	FB 15.6
11.2 -12.0	FB 16.4
12.1 -12.4	FB 17.6
12.5 -13.2	FB 18.4
13.3 -14.2	FB 19.4
14.3 -15.1	FB 21.1
15.2 -15.9	FB 22.6
16.0 -18.0	FB 23.6
Following Selections For Size 1 and 1P Only	
16.0 -16.7	FB 23.6
16.8 -17.9	FB 24.8
18.0 -18.9	FB 26.7
19.0 -19.7	FB 28.3
19.8 -20.1	FB 29.6
20.2 -21.4	FB 30.5
21.5 -22.4	FB 32.6
22.5 -23.0	FB 34.1
23.1 -27.0	FB 35
Following Selections For Size 1P Only	
22.5 -24.8	FB 34.1
24.9 -26.1	FB 38.3
26.2 -27.3	FB 40.2
27.4 -28.5	FB 42
28.6 -29.5	FB 44
29.6 -31.0	FB 46
31.1 -36.0	FB 48

TABLE 28

Motor Full-Load Current (Amp.)	Thermal Unit Number
21.4-22.6	FB 26.7
22.7-24.0	FB 28.3
24.1-25.7	FB 29.6
25.8-27.3	FB 30.5
27.4-29.0	FB 32.6
29.1-31.1	FB 34.1
31.2-34.7	FB 38.3
34.8-37.0	FB 40.2
37.1-39.4	FB 42
39.5-42.1	FB 44
42.2-44.4	FB 46
44.5-47.4	FB 48
47.5-49.6	FB 50.5
49.7-52.0	FB 52.5
52.1-54.3	FB 55.5
54.4-56.9	FB 58
57.0-59.3	FB 60
59.4-65.3	FB 63.5
65.4-74.4	FB 69
74.5-81.2	FB 77
81.3-90.0	FB 84

TABLE 30

Motor Full-Load Current (Amp.)	Thermal Unit Number
21.6- 23.1	FB 26.7
23.2- 24.7	FB 28.3
24.8- 26.7	FB 29.6
26.8- 28.3	FB 30.5
28.4- 30.1	FB 32.6
30.2- 32.3	FB 34.1
32.4- 34.9	FB 38.3
35.0- 37.3	FB 40.2
37.4- 39.9	FB 42
40.0- 42.6	FB 44
42.7- 45.5	FB 46
45.6- 48.3	FB 48
48.4- 51.9	FB 50.5
52.0- 55.1	FB 52.5
55.2- 58.9	FB 55.5
59.0- 63.1	FB 58
63.2- 67.9	FB 60
68.0- 77.1	FB 63.5
77.2- 88.7	FB 69
88.8- 99.9	FB 77
100 -109	FB 84
110 -119	FB 92
120 -135	FB 105

TABLE 29

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.30- 0.32	AR .45
0.33- 0.36	AR .49
0.37- 0.39	AR .54
0.40- 0.43	AR .59
0.44- 0.48	AR .65
0.49- 0.52	AR .71
0.53- 0.58	AR .78
0.59- 0.66	AR .86
0.67- 0.74	AR .95
0.75- 0.81	AR 1.05
0.82- 0.88	AR 1.15
0.89- 0.97	AR 1.26
0.98- 1.08	AR 1.39
1.09- 1.18	AR 1.53
1.19- 1.31	AR 1.68
1.32- 1.43	AR 1.85
1.44- 1.58	AR 2.04
1.59- 1.74	AR 2.24
1.75- 1.91	AR 2.46
1.92- 2.11	AR 2.71
2.12- 2.31	AR 2.98
2.32- 2.56	AR 3.28
2.57- 2.81	AR 3.62
2.82- 3.09	AR 3.98
3.10- 3.39	AR 4.37
3.40- 3.73	AR 4.80
3.74- 4.10	AR 5.3
4.11- 4.51	AR 5.8
4.52- 5.04	AR 6.4
5.05- 5.44	AR 7.0
5.45- 5.97	AR 7.7
5.98- 6.57	AR 8.5
6.58- 7.23	AR 9.3
7.24- 7.95	AR 10.2
7.96- 8.76	AR 11.2
8.77- 9.37	AR 12.4
9.38-10.4	AR 13.6
10.5 -11.8	AR 15.4
11.9 -13.3	AR 17.6
13.4 -14.7	AR 20.5
14.8 -17.3	AR 23
17.4 -18.0	AR 27
Following Selections For Size 1 and 1P Only	
16.6 -18.4	AR 27
18.5 -20.2	AR 30
20.3 -22.4	AR 35
22.5 -24.7	AR 40
24.8 -27.0	AR 44
Following Selections For Size 1P Only	
24.9 -26.2	AR 47
26.3 -27.1	AR 51
27.2 -28.4	AR 55
28.5 -28.9	AR 60
29.0 -30.1	AR 66
30.2 -36.0	AR 72



TABLE 31

Motor Full-Load Current (Amp.)	Thermal Unit Number
6.54-7.17	AR 9.3
7.18-7.87	AR 10.2
7.88-8.72	AR 11.2
8.73-9.56	AR 12.4
9.57-10.6	AR 13.6
10.7-12.1	AR 15.4
12.2-14.2	AR 17.6
14.3-15.7	AR 20.5
15.8-18.5	AR 23
18.6-20.3	AR 27
20.4-23.6	AR 30
23.7-26.8	AR 35
26.9-29.4	AR 40
29.5-31.1	AR 44
31.2-33.8	AR 47
33.9-36.0	AR 51
36.1-38.7	AR 55
38.8-45.0	AR 60

TABLE 32

Motor Full-Load Current (Amp.)	Thermal Unit Number
13.6-15.5	AU 20
15.6-17.4	AU 23
17.5-19.4	AU 26
19.5-22.1	AU 29
22.2-25.1	AU 33
25.2-26.5	AU 38
26.6-28.8	AU 40
28.9-32.7	AU 44
32.8-36.1	AU 50
36.2-40.8	AU 56
40.9-45.3	AU 64
45.4-51.0	AU 72
51.1-56.8	AU 81
56.9-63.9	AU 88
64.0-71.1	AU 99
71.2-79.5	AU 110
79.6-90.0	AU 123

TABLE 33

Motor Full-Load Current (Amp.)	Thermal Unit Number
42.2-47.0	AU 56
47.1-52.0	AU 64
52.1-57.5	AU 72
57.6-64.9	AU 81
65.0-72.0	AU 88
72.1-77.3	AU 99
77.4-85.5	AU 110
85.6-94.8	AU 123
92.0-100	AU 135
101-109	AU 152
109-116	AU 183
117-135	AU 198

TABLE 34

Motor Full-Load Current (Amp.)	Thermal Unit Number
85.7-99.3	AF 135
99.4-114	AF 150
115-127	AF 159
128-147	AF 168
148-164	AF 188
165-187	AF 205
188-198	AF 220
199-213	AF 240
214-236	A- 260
237-270	AF 288

TABLE 35

Size 6	Size 7	Size 8	Thermal Unit Number
Type H	Type J	Type K	
Current Transformer Ratio			Thermal Unit Number
800/5	1200/5	2000/5	
Motor-Full Load Current (Amp.)			
91-100	136-150	227-251	AR 1.05
101-110	151-165	252-276	AR 1.15
111-121	166-183	277-305	AR 1.26
122-134	184-202	306-337	AR 1.39
135-149	203-224	338-373	AR 1.53
150-178	225-257	374-445	AR 1.68
179-195	268-293	446-489	AR 1.85
196-212	294-319	490-532	AR 2.04
213-232	320-349	533-582	AR 2.24
233-254	350-381	583-636	AR 2.46
255-278	382-418	637-697	AR 2.71
279-306	419-459	698-766	AR 2.98
307-339	460-509	767-849	AR 3.28
340-376	510-565	850-942	AR 3.62
377-402	566-604	943-1007	AR 3.98
403-453	605-679	1008-1133	AR 4.37
454-502	680-753	....	AR 4.80

TABLE 37

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.36-0.39	AR .45
0.40-0.42	AR .49
0.43-0.46	AR .54
0.47-0.51	AR .59
0.52-0.56	AR .65
0.57-0.62	AR .71
0.63-0.68	AR .78
0.69-0.75	AR .86
0.76-0.83	AR .95
0.84-0.91	AR 1.05
0.92-1.00	AR 1.15
1.01-1.10	AR 1.26
1.11-1.21	AR 1.39
1.22-1.33	AR 1.53
1.34-1.47	AR 1.68
1.48-1.62	AR 1.85
1.63-1.78	AR 2.04
1.79-1.96	AR 2.24
1.97-2.16	AR 2.46
2.17-2.37	AR 2.71
2.38-2.61	AR 2.98
2.62-2.89	AR 3.28
2.90-3.17	AR 3.62
3.18-3.49	AR 3.98
3.50-3.88	AR 4.37
3.84-4.23	AR 4.80
4.24-4.62	AR 5.3
4.63-5.11	AR 5.8
5.12-5.59	AR 6.4
5.60-6.15	AR 7.0
6.16-6.79	AR 7.7
6.80-7.43	AR 8.5
7.44-8.14	AR 9.3
8.15-8.95	AR 10.2
8.96-10.0	AR 11.2

TABLE 38

Size 6	Size 7	Size 8	Thermal Unit Number
Type H	Type J	Type K	
Series B, C			Thermal Unit Number
Series A, B			
Series A, B			
Current Transformer Ratio			Thermal Unit Number
800/5	1200/5	2000/5	
Motor Full-Load Current (Amp.)			
107-117	161-177	268-295	AR 1.26
118-130	178-196	296-327	AR 1.39
131-145	197-217	328-363	AR 1.53
146-169	218-253	364-423	AR 1.68
170-185	254-277	424-463	AR 1.85
186-201	278-301	464-503	AR 2.04
202-217	302-325	504-543	AR 2.24
218-236	326-354	544-591	AR 2.46
237-253	355-381	592-635	AR 2.71
254-279	382-419	636-699	AR 2.98
280-311	420-467	700-779	AR 3.28
312-353	468-529	780-883	AR 3.62
354-396	530-594	884-991	AR 3.98
397-442	595-664	992-1107	AR 4.37
443-492	665-738	1108-1231	AR 4.80
493-540	739-810	....	AR 5.30

TABLE 36

Motor Full-Load Current (Amp.)	Thermal Unit Number
0.33-0.35	AR .45
0.36-0.39	AR .49
0.40-0.42	AR .54
0.43-0.46	AR .59
0.47-0.51	AR .65
0.52-0.56	AR .71
0.57-0.62	AR .78
0.63-0.68	AR .86
0.69-0.75	AR .95
0.76-0.83	AR 1.05
0.84-0.91	AR 1.15
0.92-1.00	AR 1.26
1.01-1.10	AR 1.39
1.11-1.21	AR 1.53
1.22-1.33	AR 1.68
1.34-1.47	AR 1.85
1.48-1.62	AR 2.04
1.63-1.77	AR 2.24
1.78-1.96	AR 2.46
1.97-2.16	AR 2.71
2.17-2.37	AR 2.98
2.38-2.62	AR 3.28
2.63-2.88	AR 3.62
2.89-3.17	AR 3.98
3.18-3.48	AR 4.37
3.49-3.83	AR 4.80
3.84-4.20	AR 5.3
4.21-4.61	AR 5.8
4.62-5.07	AR 6.4
5.08-5.57	AR 7.0
5.58-6.13	AR 7.7
6.14-6.83	AR 8.5
6.84-7.41	AR 9.3
7.42-8.05	AR 10.2
8.06-8.98	AR 11.2
8.99-9.93	AR 12.4
9.94-10.9	AR 13.6
11.0-12.4	AR 15.4
12.5-14.3	AR 17.6
14.4-15.8	AR 20.5
15.9-18.0	AR 23
Following Selections For Size 1 and 1P Only	
15.9-17.9	AR 23
18.0-19.9	AR 27
20.0-22.4	AR 30
22.5-25.6	AR 35
25.7-27.0	AR 40
Following Selections For Size 1P Only	
22.5-24.8	AR 35
24.9-29.7	AR 40

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