

**General**

All tables are based on the operation of the motor and controller in the same ambient temperature, 40 °C (104 °F) or less. Always be certain the correct thermal units are installed in the starter before operating the motor. Each thermal unit shall be installed such that its catalog number is visible. See page 16-136 for information on installing thermal units. On melting alloy thermal units the ratchet wheel must engage the pawl assembly.

**Selection Procedure**

1. Determine motor data:
  - a. Full load current rating
  - b. Service factor  
**NOTE:** If motor full load current (FLC) is not known, a tentative thermal unit selection could be made, based on horsepower and voltage. Refer to page 16-136.
2. Motor and controller in *same ambient temperature*:
  - a. All starter classes, except Class 8198:
    1. For 1.15 to 1.25 service factor motors use 100% of motor FLC for thermal unit selection.
    2. For 1.0 service factor motors use 90% of motor FLC for thermal unit selection.
  - b. Class 8198 only:
    1. For 1.0 service factor motors use 100% of motor FLC for thermal unit selection.
    2. For 1.15 to 1.25 service factor motors use 110% of motor FLC for thermal unit selection.
3. Motor and controller in *different ambient temperatures*:
  - a. Multiply motor FLC by the multiplier in [Selection of Thermal Units for Special Applications](#), page 16-132. Use the resultant full load current for thermal unit selection.
4. Locate the proper selection table from the index, pages [page 16-133](#) and [page 16-134](#).
  - a. The proper thermal unit number will be found adjacent, to the right of the range of full load currents in which the motor FLC or resultant full load current falls.
5. See [page 16-135](#) for calculation of trip current rating.

**Slow Trip Thermal Unit Selection**

To select Type SB slow trip thermal units, the selection table for a standard Type B thermal unit may be used with the following modifications: For continuous rated motors having service factors of 1.15 to 1.25, select thermal units from the standard Type B table using 93% (102% for Class 8198) of the full load current shown on the motor nameplate and then substitute an SB for the B in the thermal unit type number.

Example: A motor with a full load current of 12 A controlled by an 8536SCG3 would require B22 thermal units for standard trip applications and SB19.5 thermal units for slow trip applications. The SB is selected by multiplying 12 A times 93% for 11.16 A and using this value to select B19.5. Then add the S prefix to arrive at SB19.5.

For continuous rated motors having a service factor of 1.0, select thermal units in the same manner using 84% (93% for Class 8198) of full load current shown on the motor nameplate.

**NOTE:** SB thermal units are used on Size 0, 1, 2, and only some Size 3 applications. Check thermal unit tables for current ranges.

**Table 16.375: Thermal Unit Trip Types**

Melting Alloy	
Type of Trip	Thermal Unit Type
Standard	A
	B
	C
	CC
	DD
Quick	FB
Slow	SB

**Table 16.376: Selection of Thermal Units for Special Applications**

Class of Controller	Continuous Duty Motor Service Factor	Melting Alloy		
		Ambient Temperature of Motor		
		Same as Controller Ambient	Constant 10 °C (18 °F) Higher Than Controller Ambient	Constant 10 °C (18 °F) Lower Than Controller Ambient
			Full Load Current Multiplier	
All Classes, Except 8198	1.15 to 1.25	1.0	0.9	1.05
	1.0	0.9	0.8	0.95
Class 8198	1.15 to 1.25	1.1	1.0	1.15
	1.0	1.0	0.9	1.05

**Thermal Unit Selection**

**NOTE:** For thermal unit selection tables for other devices including obsolete devices, consult the Customer Care Center at 1-888-778-2733.

**Table 16.377: Thermal Unit Selection**

Starter Type	Class	Controller			Thermal Unit Selection Table Number		
		Type	Series <sup>[1]</sup>	Size	Hand Reset Melting Alloy		
					Standard Trip (20)	Quick Trip (10)	Slow Trip (30)
Manual Starters FHP	2510 2512 8908	F	A	FHP	43 <sup>[2]</sup>	—	—
Manual Starters (Small Enclosure)	2510	M, T	A	M-0 M-1 M-1P	1 1 1	72 72 72	<sup>[3]</sup> <sup>[3]</sup> <sup>[3]</sup>
Manual Starters (Large Enclosure)	2510 2511 2512 8925	M, T	A	M-0 M-1 M-1P	2 2 2	73 73 73	<sup>[3]</sup> <sup>[3]</sup> <sup>[3]</sup>
DC Magnetic Starters EC & M Crane Control Product	7135	C, D	—	1, 2	65	—	<sup>[3]</sup>
	7136	E	—	3	9	—	—
	7735	F	—	4	10	—	—
	7736	G	—	5	12	—	—
		A (8536 only)	B, C	00	17 <sup>[2]</sup>	—	—
AC Magnetic Starters (Small Enclosure)	8536 8904 <sup>[4]</sup> (Starter In Own Enclosure) 8933 8998 8999 (Model 3 Control Center) I-LINE® and QMB Motor Starter Centers	SA	A, B	00	13	—	<sup>[3]</sup>
		SB	A	0	13	74	<sup>[3]</sup>
		SC	A	1	13	74	<sup>[3]</sup>
			A	1P	41	—	<sup>[3]</sup>
		SD	A	2	56	75	<sup>[3]</sup>
		SE	A	3	18	76 <sup>[5]</sup>	134 <sup>[3][5]</sup>
		SF	A	4	54	—	—
		SG	A	5	49	—	—
			B <sup>[6]</sup>	5	59	83	—
		SH	A, B	6	21	—	—
	8998 8999 (Model 4 Control Center)	SC	A	1 Fusible	66	74	—
			A	1 Circuit Breaker	15	74	—
		SD	A	2 Fusible	67	75	—
			A	2 Circuit Breaker	58 <sup>[7]</sup>	75	—
		SE	A	3 Small Enclosure	16	76 <sup>[5]</sup>	134 <sup>[3][5]</sup>
			A	3 Large Enclosure	68 <sup>[7]</sup>	76 <sup>[5]</sup>	133 <sup>[3][5]</sup>
		SF	A	4	61	—	—
		SG	A	5	24	—	—
		SH	A	6	20	—	—
		8998 (Model 5 and Model 6 MCCs)	SC <sup>[8]</sup>	A	1	109	—
SD <sup>[8]</sup>	A		1 COMPAC 6	104	—	—	
	A		2	110	—	—	
SE <sup>[8]</sup>	A		3	111	—	—	
SF <sup>[8]</sup>	A		4	112	—	—	
SG <sup>[8]</sup>	A		5	113	—	—	
	B		5 CT	103	—	—	
SH <sup>[8]</sup>	A	6	114	—	—		
8911	DPSG	C	20-30 A	135	—	—	
		A	40 A	145	—	—	
		A	50 A	146	—	—	

(table continued on the next page)

**NOTE:** For thermal unit selection tables for other devices, including obsolete devices, consult the Customer Care Center at 1-888-778-2733.

[1] Series letters listed refer to the marking on the nameplate of the basic openstyle starter. When the starter comes in a controller containing other devices, the controller may have a different series letter marked on the enclosure nameplate.  
 [2] Type A thermal units for full-load currents lower than those listed in this table are available. For complete information, consult Customer Care Center at 1-888-778-2733.  
 [3] This device will accept Type SB slow trip (Class 30) thermal units. For selection, see page 16-132.  
 [4] 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 selections, index above.  
 [5] **Form Y81** must be specified to use quick trip (Class 10) or slow trip (Class 30) thermal units on Size 3 starters.  
 [6] Divide the motor FLC by 60, and use this quotient to select the appropriate thermal units.  
 [7] Use for autotransformer starters (fusible and circuit breaker).  
 [8] Refers to the Type number of the starter in the MCC, not the Type number of the MCC.

Thermal Unit Selection

Table 16.378: Thermal Unit Selection

Starter Type	Class	Controller			Thermal Unit Selection Table Number				
		Type	Series <sup>[9]</sup>	Size	Hand Reset Melting Alloy				
					Standard Trip (20)	Quick Trip (10)	Slow Trip (30)		
AC Magnetic Starters (Large Enclosure)	8198	G, S	—	—	5	—	[10]		
	8536 (Starter Used in Multi-Motor Panel)	A (8536 only)	B, C	00	14 [11]	—	—		
	8538 8904 <sup>[12]</sup>	SA	A, B	00	53	—	[10]		
	8539 8906	SB, NB	A	0	15	78	[10]		
	8606 8907	SC, NC	A	1	15	78	[10]		
	8630 [13]	8920	SD, ND	A	2	58	79	[10]	
	8640 [14]	8922	SE, NE	A	3	16	80 [15]	133 [15][10]	
	9089 8924	SF, NF	A	4	61	—	—		
	8647 8925	SG	A	5	24	—	—		
	8650 8930		B [16]	5	59	83	—		
	8736 8738 8739	8941	SH	A, B	6	20	—	[10]	
	AC Magnetic Starters (Large Enclosure)	8810 8811 8812	CB, DB, SB, UB	A	0	15	78	[10]	
			CC, DC, SC, UC	A	1	15	78	[10]	
			CD, DD, SD, UD	A	2	58	79	[10]	
			CE, DE, SE, UE	A	3	16	80 [15]	133 [15][10]	
			CF, DF, SF, UF	A	4	61	—	—	
			CG, DG, SG, UG	A	5	24	—	—	
		8940 WELL-GUARD™ Control	WELL-GUARD™ Control	CH, DH, SH, UH	A	6	20	—	[10]
				WC, XC	A	1	13	78	—
				WD, XD, MD, RD, VD	A	2	56	79	—
				WE, XE, ME, RE, VE	A	3	18	80 [15]	—
		8911	DPSO	PF, WF, XF, MF, RF, VF, PE	A	4	54	—	—
					C	20–30 A	136	—	—
	A				40 A	147	—	—	
	AC Magnetic Part-Winding	8998 (Model 5 and Model 6 MCCs)	SC [17]	A	1	127	—	—	
				A	2	128	—	—	
				A	3	129	—	—	
				A	4	105	—	—	
A				5	115	—	—		
B [16]				5 CT	116	—	—		
Separately Mounted Overload Relays	9065	C	A	1 (25 A)	44	82	[10]		
		F	B	4 (133 A)	19	—	—		
		G	A	5 (266 A)	22	—	—		
		MEO	A	(32 A)	86	—	—		
		S	A	1 (26 A)	59	83	[10]		
				2 (45 A)	69	84	[10]		
				3 (86 A)	34	—	—		
				4 (133 A)	28	—	—		
		T	A	2 (45 A)	31	—	[10]		
		U	—	—	3 (86 A)	40	—	—	

**NOTE:** For thermal unit selection tables for other devices including obsolete devices, consult the Customer Care Center at 1-888-778-2733.

[9] Series letters listed refer to the marking on the nameplate of the basic openstyle starter. When the starter comes in a controller containing other devices, the controller may have a different series letter marked on the enclosure nameplate.

[10] This device will accept Type SB slow trip (Class 30) thermal units. For selection, see page 16-132.

[11] Type A thermal units for full-load currents lower than those listed in this table are available. For complete information, consult Customer Care Center at 1-888-778-2733.

[12] Large enclosure tables apply for **Class 8904** combination and reversing starters. For non-combination and non-reversing **Class 8904** starters refer to small enclosure selections, page 16-133.

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

[14] For **Class 8640** and **Class 8940** starters (MD, PD, ME, PE, MF, PF, MG and PG), use the full-load current of each motor winding as a basis for thermal unit selection—normally one-half the total motor current.

[15] **Form Y81** must be specified to use quick trip (Class 10) or slow trip (Class 30) thermal units on Size 3 starters.

[16] Divide the motor FLC by 60, and use this quotient to select the appropriate thermal units.

[17] Refers to the Type number of the starter in the MCC, not the Type number of the MCC.

### Calculation of the Trip Current Rating

**Trip Current Rating**—The trip current rating is a nominal value that approximates the minimum current to trip an overload relay in an ambient temperature, outside of the enclosure, of 40 °C (104 °F). In all selection tables except Class 8198, the trip current rating is 1.25 times the minimum full load current shown for the thermal unit selected. For Class 8198, the trip current rating is 1.15 times the minimum full load current. This applies to bimetallic overload relays with the trip adjustment set at 100 percent.

#### Calculation Procedure

1. Use the selection table for the specific controller involved.
2. Find the minimum motor full load current listed for the thermal unit in question.
3. Multiply that current by 1.25 (1.15 for Class 8198). The result is the trip current rating.

**Example 1:** Determine the thermal unit selection and trip current rating for thermal units in a Class 8536 Type SCG3 Size 1 magnetic starter used to control a three-phase, 1.15 service factor motor with a full load current of 17.0 Amperes, where the motor and controller are both located in a 40°C (104°F) ambient temperature.

1. From Table 13 the proper selection is B32.
2. The minimum motor full load current is 16.0 Amperes.
3. Trip current rating is  $16.0 \times 1.25 = 20.0$  Amperes.

**Protection Level** is the relationship between trip current rating and full load current. Protection level, in percent, is the trip current rating divided by the motor full load current times 100. In Example 1 the protection level for the B32 thermal unit is:  $20.0/17.0 \times 100 = 118\%$ .

National Electrical Code, Section 430-32, allows a maximum protection level of 125% for the motor in the above example.

**Minimum Trip Current** (also called ultimate current) may vary from the trip current rating value, since ratings are established under standardized test conditions. Factors which influence variations include: the number of thermal units installed, enclosure size, proximity to heat producing devices, size of conductors installed, ambient (room) temperature, and others.

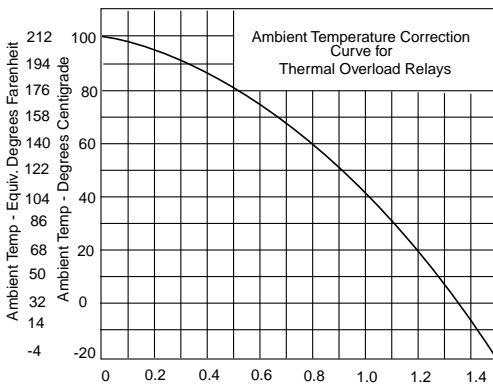
Except for ambient temperature-compensated overload relays, an ambient temperature higher than 40°C would lower the trip current, and a lower temperature would increase it. This variation is not a factor in selecting thermal units for the average application, since most motor ratings are based on an ambient temperature of 40 °C, and motor capacity varies with temperature in about the same proportion as the change in trip current. Temperature-compensated relays maintain a nearly constant trip current over a wide range of ambient temperature, and are intended for use where the relay, because of its location, cannot sense changes in the motor ambient temperature.

### Calculation of the Trip Current for Ambient Temperatures Other Than 40 °C

For a controller ambient temperature other than 40 °C (104 °F) trip current can be calculated by applying a correction factor from the curve in Figure 1. The approximate trip current for a particular ambient temperature is the product of (1) the multiplier M corresponding to the temperature and (2) the 40 °C trip current rating.

**NOTE:** Ambient temperature is the temperature surrounding the starter enclosure. Normal temperature rise inside the enclosure has been taken into account in preparing the thermal unit selection tables.

**Example 2:** Determine the trip current for the motor and controller in Example 1, except the controller is in a 30 °C (86 °F) ambient temperature. From the curve in Figure 1 the multiplier M is 1.1 at 30 °C. The approximate trip current is  $16.0 \times 1.25 \times 1.1 = 22$  A.



### Approximate Thermal Unit Selection Based On Horsepower and Voltage

**General**—Thermal units selected using approximate full-load currents from Table 16.379 will provide a trip current between 101% and 125% of full-load current for many 4-pole, single speed, normal torque, 60 Hz motors. Since full-load current rating of different makes and types of motors vary so widely, these selections may not be suitable.

Thermal units should be selected on the basis of motor nameplate full-load current and service factor. Thermal unit sizes originally selected on an approximate basis should always be rechecked and corrected at the time of installation if required.

**How to use Table 16.379:**

- Locate the motor horsepower and voltage.
- Determine the approximate full-load current from Table 16.379.
- Use the approximate full-load current in place of actual nameplate full-load current and follow the Selection Procedure on page 16-132.

**Table 16.379: Use This Table Only When the Motor Full-Load Current Is Not Known**

Motor Horsepower	Motor Full-Load Current					
	Three Ø			Single Ø		
	200 V	230 V	460 V	575 V	115 V	230 V
1/6	—	—	—	—	4.4	2.2
1/4	—	—	—	—	5.8	2.9
1/3	—	—	—	—	7.2	3.6
1/2	2.5	2.2	1.1	0.9	9.8	4.9
3/4	3.7	3.2	1.6	1.3	13.8	6.9
1	4.8	4.2	2.1	1.7	16	8
1-1/2	6.9	6.0	3.0	2.4	20	10
2	7.8	6.8	3.4	2.7	24	12
3	11.0	9.6	4.8	3.9	34	17
5	17.5	15.2	7.6	6.1	56	28
7-1/2	25.3	22	11	9	80	40
10	32.2	28	14	11	—	50
15	48.3	42	21	17	—	—
20	62.1	54	27	22	—	—
25	78.2	68	34	27	—	—
30	92	80	40	32	—	—
40	120	104	52	41	—	—
50	150	130	65	52	—	—
60	177	154	77	62	—	—
75	221	192	96	77	—	—
100	285	248	124	99	—	—
125	359	312	156	125	—	—
150	414	360	180	144	—	—
200	552	480	240	192	—	—

**NOTE:** These currents should not be used for selection of fuses, circuit breakers or wire sizes. See NEC tables 430-248 through 430-250. For motors rated 208-220 volts, use 230 V column. For motors rated 440 to 550 volts, use 460 and 575 V columns, respectively.

### Mounting of the Thermal Units

Always be certain the correct thermal units are installed in the starter before operating the motor. Thermal units should always be mounted so that their type designation can be read from the front of the starter (see Figure 1). Melting alloy thermal units should be mounted so that the tooth of the pawl assembly can engage the teeth of the ratchet wheel when the reset button is pushed.

Mounting surfaces of starter and thermal units should be clean and care should be taken to insure that thermal unit mounting screws are fastened securely.



Figure 1

**Thermal Unit Selection Tables**

**Thermal Unit Table 1**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
0.33-0.36	0.29-0.32	B 0.44
0.37-0.40	0.33-0.36	B 0.51
0.41-0.45	0.37-0.39	B 0.57
0.46-0.52	0.40-0.47	B 0.63
0.53-0.59	0.48-0.56	B 0.71
0.60-0.66	0.57-0.63	B 0.81
0.67-0.73	0.64-0.69	B 0.92
0.74-0.81	0.70-0.77	B 1.03
0.82-0.91	0.78-0.86	B 1.16
0.92-1.02	0.87-0.96	B 1.30
1.03-1.14	0.97-1.11	B 1.45
1.15-1.29	1.12-1.23	B 1.67
1.20-1.42	1.24-1.37	B 1.88
1.43-1.64	1.38-1.55	B 2.10
1.65-1.80	1.56-1.75	B 2.40
1.81-2.10	1.76-1.92	B 2.65
2.11-2.30	1.93-2.16	B 3.00
2.31-2.61	2.17-2.50	B 3.30
2.62-2.99	2.51-2.81	B 3.70
3.00-3.37	2.82-3.16	B 4.15
3.38-3.94	3.17-3.40	B 4.85
3.95-4.24	3.41-3.76	B 5.50
4.25-4.54	3.77-4.00	B 6.25
4.55-5.29	4.01-4.68	B 6.90
5.30-5.73	4.69-5.18	B 7.70
5.74-6.35	5.19-5.51	B 8.20
6.36-7.08	5.52-6.19	B 9.10
7.09-7.83	6.20-7.12	B 10.2
7.84-8.47	7.13-8.15	B 11.5
8.48-9.83	8.16-8.60	B 12.8
9.84-10.5	8.61-9.21	B 14.0
10.6-11.4	9.22-10.1	B 15.5
11.5-12.8	10.2-11.2	B 17.5
12.9-13.9	11.3-12.0	B 19.5
14.0-16.1	—	B 22.0
16.2-18.0	—	B 25.0
Following Selections for Size M-1 & M-1P Only.		
—	11.3-12.1	B 19.5
—	12.2-13.6	B 22.0
16.2-17.6	13.7-15.3	B 25.0
17.7-20.6	15.4-17.3	B 28.0
20.7-23.1	17.4-19.1	B 32.0
23.2-26.0	19.2-21.7	B 36.0
—	21.8-24.2	B 40.0
—	24.3-26.0	B 45.0
Following Selections for Size M-1P Only		
23.2-27.1	—	B 36.0
27.2-29.2	—	B 40.0
29.3-33.0	—	B 45.0
33.1-36.0	—	B 50.0

**Thermal Unit Table 2**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
0.35-0.38	0.30-0.32	B 0.44
0.39-0.43	0.33-0.37	B 0.51
0.44-0.48	0.38-0.39	B 0.57
0.49-0.56	0.40-0.48	B 0.63
0.57-0.63	0.49-0.57	B 0.71
0.64-0.71	0.58-0.64	B 0.81
0.72-0.78	0.65-0.70	B 0.92
0.79-0.88	0.71-0.78	B 1.03
0.89-0.99	0.79-0.87	B 1.16
1.00-1.15	0.88-0.98	B 1.30
1.16-1.23	0.99-1.13	B 1.45
1.24-1.43	1.14-1.25	B 1.67
1.44-1.51	1.26-1.40	B 1.88
1.52-1.75	1.41-1.58	B 2.10
1.76-1.93	1.59-1.79	B 2.40
1.94-2.25	1.80-1.91	B 2.65
2.26-2.47	1.92-2.20	B 3.00
2.48-2.81	2.21-2.55	B 3.30
2.82-3.20	2.56-2.87	B 3.70
3.21-3.63	2.88-3.24	B 4.15
3.64-4.19	3.25-3.48	B 4.85
4.20-4.53	3.49-3.85	B 5.50
4.54-4.89	3.86-4.10	B 6.25
4.90-5.68	4.11-4.79	B 6.90
5.69-6.27	4.80-5.31	B 7.70
6.28-6.85	5.32-5.65	B 8.20
6.86-7.73	5.66-6.35	B 9.10
7.74-8.50	6.36-7.31	B 10.2
8.51-9.29	7.32-8.34	B 11.5
9.30-10.4	8.35-8.84	B 12.8
10.5-11.3	8.85-9.47	B 14.0
11.4-12.3	9.48-10.4	B 15.5
12.4-13.9	10.5-11.5	B 17.5
14.0-15.0	11.6-12.0	B 19.5
15.1-18.0	—	B 22.0
Following Selections for Size M-1 & M-1P Only.		
—	11.6-12.4	B 19.5
15.1-17.4	12.5-14.0	B 22.0
17.5-19.2	14.1-15.8	B 25.0
19.3-22.0	15.9-17.8	B 28.0
22.1-24.6	17.9-19.7	B 32.0
24.7-26.0	19.8-22.4	B 36.0
—	22.5-25.1	B 40.0
—	25.1-26.0	B 45.0
Following Selections for Size M-1P Only.		
24.7-29.1	—	B 36.0
29.2-31.7	—	B 40.0
31.8-36.0	—	B 45.0

**Thermal Unit Table 3**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
0.29-0.31	0.28-0.29	B 0.44
0.32-0.36	0.30-0.33	B 0.51
0.37-0.39	0.34-0.36	B 0.57
0.40-0.47	0.37-0.44	B 0.63
0.48-0.56	0.45-0.52	B 0.71
0.57-0.63	0.53-0.59	B 0.81
0.64-0.69	0.60-0.64	B 0.92
0.70-0.77	0.65-0.71	B 1.03
0.78-0.86	0.72-0.80	B 1.16
0.87-0.97	0.81-0.90	B 1.30
0.98-1.12	0.91-1.03	B 1.45
1.13-1.24	1.04-1.14	B 1.67
1.25-1.39	1.15-1.27	B 1.88
1.40-1.57	1.28-1.44	B 2.10
1.58-1.78	1.45-1.63	B 2.40
1.79-1.96	1.64-1.79	B 2.65
1.97-2.20	1.80-2.01	B 3.00
2.21-2.41	2.02-2.19	B 3.30
2.42-2.75	2.20-2.52	B 3.70
2.76-3.25	2.53-2.95	B 4.15
3.26-3.50	2.96-3.17	B 4.85
3.51-3.87	3.18-3.50	B 5.50
3.88-4.13	3.51-3.73	B 6.25
4.14-4.69	3.74-4.22	B 6.90
4.70-5.20	4.23-4.68	B 7.70
5.21-5.53	4.69-4.98	B 8.20
5.54-6.23	4.99-5.59	B 9.10
6.24-7.18	5.60-6.43	B 10.2
7.19-8.20	6.44-7.41	B 11.5
8.21-8.98	7.42-8.02	B 12.8
8.99-9.63	8.03-8.59	B 14.0
9.64-10.6	8.60-9.52	B 15.5
10.7-11.8	9.53-10.5	B 17.5
11.9-12.7	10.6-11.2	B 19.5
12.8-14.3	11.3-12.0	B 22.0
14.4-16.1	—	B 25.0
16.2-18.0	—	B 28.0
Following Selections for Size M-1 & M-1P Only.		
—	11.3-12.7	B 22.0
—	12.8-14.3	B 25.0
16.2-18.3	14.4-16.1	B 28.0
18.4-20.2	16.2-17.8	B 32.0
20.3-23.0	17.9-20.1	B 36.0
23.1-26.0	20.2-22.6	B 40.0
—	22.7-25.5	B 45.0
—	25.6-26.0	B 50.0
Following Selections for Size M-1P Only		
25.9-29.0	—	B 45.0
29.1-30.8	—	B 50.0
30.9-32.7	—	B 56.0
32.8-36.0	—	B 62.0

**Thermal Unit Table 5**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Current Transformer Ratio										Thermal Unit Number
25/5	50/5	75/5	100/5	150/5	200/5	250/5	300/5	400/5	500/5	
Motor FLC										
10.6-11.7	21.1-23.6	31.7-35.4	42.3-47.2	63.4-70.9	84.5-94.6	106-117.	127-141.	169-188.	211-236.	B 3.00
11.8-13.2	23.7-26.5	35.5-39.8	47.3-53.1	71.0-79.7	94.7-105.	118-132.	142-159.	189-212.	237-265.	B 3.30
13.3-14.8	26.6-29.6	39.9-44.5	53.2-59.4	79.8-89.1	106-118.	133-148.	160-177.	213-237.	266-296.	B 3.70
14.9-17.2	29.7-34.5	44.6-51.8	59.5-69.2	89.2-103.	119-138.	149-172.	178-207.	238-276.	297-345.	B 4.15
17.3-19.6	34.6-39.2	51.9-58.9	69.3-78.6	104-117.	139-156.	173-196.	208-235.	277-314.	346-360.	B 4.85
19.7-22.3	39.3-44.6	59.0-67.0	78.7-89.3	118-133.	157-178.	197-223.	236-267.	315-357.	—	B 5.50

**Thermal Unit Table 9**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
15.3-16.7	C 20.0
16.8-19.8	C 22.0
19.9-22.8	C 26.0
22.9-25.8	C 30.0
25.9-30.4	C 34.0
30.5-31.9	C 40.0
32.0-34.2	C 42.0
34.3-38.8	C 45.0
38.9-44.2	C 51.0
44.3-50.2	C 58.0
50.3-57.1	C 66.0
57.2-63.2	C 75.0
63.3-68.6	C 83.0
68.7-78.6	C 90.0
78.7-86.9	C 103.0
87.0-100.0	C 114.0

**Thermal Unit Table 4**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
0.32-0.33	0.29-0.30	B 0.44
0.34-0.38	0.31-0.35	B 0.51
0.39-0.41	0.36-0.37	B 0.57
0.42-0.50	0.38-0.45	B 0.63
0.51-0.61	0.46-0.54	B 0.71
0.62-0.68	0.55-0.61	B 0.81
0.69-0.74	0.62-0.66	B 0.92
0.75-0.83	0.67-0.74	B 1.03
0.84-0.93	0.75-0.83	B 1.16
0.94-1.05	0.84-0.93	B 1.30
1.06-1.21	0.94-1.07	B 1.45
1.22-1.34	1.08-1.19	B 1.67
1.35-1.50	1.20-1.33	B 1.88
1.51-1.70	1.34-1.51	B 2.10
1.71-1.93	1.52-1.70	B 2.40
1.94-2.12	1.71-1.87	B 2.65
2.13-2.38	1.88-2.10	B 3.00
2.39-2.61	2.11-2.29	B 3.30
2.62-2.99	2.30-2.63	B 3.70
3.00-3.53	2.64-3.09	B 4.15
3.54-3.80	3.10-3.32	B 4.85
3.81-4.21	3.33-3.67	B 5.50
4.22-4.49	3.68-3.91	B 6.25
4.50-5.10	3.92-4.43	B 6.90
5.11-5.66	4.44-4.91	B 7.70
5.67-6.03	4.92-5.23	B 8.20
6.04-6.79	5.24-5.88	B 9.10
6.80-7.84	5.89-6.77	B 10.2
7.85-8.96	6.78-7.90	B 11.5
8.97-9.82	7.91-8.44	B 12.8
9.83-10.4	8.45-9.05	B 14.0
10.5-11.6	9.06-9.99	B 15.5
11.7-12.9	10.0-11.0	B 17.5
13.0-13.9	11.1-11.9	B 19.5
14.0-15.7	12.0-12.0	B 22.0
15.8-18.0	—	B 25.0
Following Selections for Size M-1 & M-1P Only.		
—	12.0-13.4	B 22.0
—	13.5-15.1	B 25.0
17.8-20.1	15.2-17.0	B 28.0
20.2-22.2	17.1-18.9	B 32.0
22.3-25.3	19.0-21.4	B 36.0
25.4-26.0	21.5-24.0	B 40.0
—	24.1-26.0	B 45.0
Following Selections for Size M-1P Only.		
25.4-28.4	—	B 40.0
28.5-33.1	—	B 45.0
33.2-36.0	—	B 50.0

**Thermal Unit Table 10**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
43.6-47.3	CC 54.5
47.4-51.3	CC 59.4
51.4-54.6	CC 64.3
54.7-59.7	CC 68.5
59.8-65.1	CC 74.6
65.2-70.1	CC 81.5
70.2-75.1	CC 87.7
75.2-82.2	CC 94.0
82.3-89.2	CC 103.0
89.3-96.5	CC 112.0
96.6-104.	CC 121.0
105-113.	CC 132.0
114-123.	CC 143.0
124-132.	CC 156.0
133-150.	CC 167.0

**Thermal Unit Table 12**

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
92-100.	DD 112.0
101-109.	DD 121.0
110-119.	DD 128.0
120-131.	DD 140.0
132-139.	DD 150.0
140-156.	DD 160.0
157-166.	DD 185.0
167-180.	DD 213.0
181-189.	DD 220.0
190-209.	DD 230.0
210-225.	DD 250.0
226-238.	DD 265.0
239-263.	DD 280.0
264-300.	DD 300.0

**Thermal Unit Table 13**

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)			Thermal Unit Number
1.T.U.	2.T.U.	3.T.U.	
0.29-0.31	0.29-0.31	0.28-0.30	B 0.44
0.32-0.34	0.32-0.34	0.31-0.34	B 0.51
0.35-0.38	0.35-0.38	0.35-0.37	B 0.57
0.39-0.45	0.39-0.45	0.38-0.44	B 0.63
0.46-0.54	0.46-0.54	0.45-0.53	B 0.71
0.55-0.61	0.55-0.61	0.54-0.59	B 0.81
0.62-0.66	0.62-0.66	0.60-0.64	B 0.92
0.67-0.73	0.67-0.73	0.65-0.72	B 1.03
0.74-0.81	0.74-0.81	0.73-0.80	B 1.16
0.82-0.94	0.82-0.94	0.81-0.90	B 1.30
0.95-1.05	0.95-1.05	0.91-1.03	B 1.45
1.06-1.22	1.06-1.22	1.04-1.14	B 1.67
1.23-1.34	1.23-1.34	1.15-1.27	B 1.88
1.35-1.51	1.35-1.51	1.28-1.43	B 2.10
1.52-1.71	1.52-1.71	1.44-1.62	B 2.40
1.72-1.93	1.72-1.93	1.63-1.77	B 2.65
1.94-2.14	1.94-2.14	1.78-1.97	B 3.00
2.15-2.40	2.15-2.40	1.98-2.32	B 3.30
2.41-2.72	2.41-2.72	2.33-2.51	B 3.70
2.73-3.15	2.73-3.15	2.52-2.99	B 4.15
3.16-3.55	3.16-3.55	3.00-3.42	B 4.85
3.56-4.00	3.56-4.00	3.43-3.75	B 5.50
4.01-4.40	4.01-4.40	3.76-3.98	B 6.25
4.41-4.88	4.41-4.88	3.99-4.48	B 6.90
4.89-5.19	4.89-5.19	4.49-4.93	B 7.70
5.20-5.73	5.20-5.73	4.94-5.21	B 8.20
5.74-6.39	5.74-6.39	5.22-5.84	B 9.10
6.40-7.13	6.40-7.13	5.85-6.67	B 10.2
7.14-7.90	7.14-7.90	6.68-7.54	B 11.5
7.91-8.55	7.91-8.55	7.55-8.14	B 12.8
8.56-9.53	8.56-9.53	8.15-8.72	B 14.0
9.54-10.6	9.54-10.6	8.73-9.66	B 15.5
10.7-11.8	10.7-11.8	9.67-10.5	B 17.5
11.9-13.2	11.9-12.0	10.6-11.3	B 19.5
13.3-14.9	—	11.4-12.0	B 22.0
15.0-16.6	—	—	B 25.0
16.7-18.0	—	—	B 28.0
Following Selections for Size 1 Only			
—	11.9-13.2	—	B 19.5
—	13.3-14.9	11.4-12.7	B 22.0
—	15.0-16.6	12.8-14.1	B 25.0
16.7-18.9	16.7-18.9	14.2-15.9	B 28.0
19.0-21.2	19.0-21.2	16.0-17.5	B 32.0
21.3-23.0	21.3-23.0	17.6-19.7	B 36.0
23.1-25.5	23.1-25.5	19.8-21.9	B 40.0
25.6-26.0	25.6-26.0	22.0-24.4	B 45.0
—	—	24.5-26.0	B 50.0

**Thermal Unit Table 14**

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)			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

**Thermal Unit Table 15**

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)			Thermal Unit Number
1.T.U.	2.T.U.	3.T.U.	
0.31-0.33	0.31-0.33	0.29-0.31	B 0.44
0.34-0.36	0.34-0.36	0.32-0.36	B 0.51
0.37-0.40	0.37-0.40	0.37-0.38	B 0.57
0.41-0.48	0.41-0.48	0.39-0.46	B 0.63
0.49-0.57	0.49-0.57	0.47-0.55	B 0.71
0.58-0.64	0.58-0.64	0.56-0.61	B 0.81
0.65-0.70	0.65-0.70	0.62-0.66	B 0.92
0.71-0.77	0.71-0.77	0.67-0.75	B 1.03
0.78-0.85	0.78-0.85	0.76-0.83	B 1.16
0.86-0.99	0.86-0.99	0.84-0.93	B 1.30
1.00-1.10	1.00-1.10	0.94-1.06	B 1.45
1.11-1.28	1.11-1.28	1.07-1.18	B 1.67
1.29-1.41	1.29-1.41	1.19-1.31	B 1.88
1.42-1.58	1.42-1.58	1.32-1.47	B 2.10
1.59-1.80	1.59-1.80	1.48-1.67	B 2.40
1.81-2.03	1.81-2.03	1.68-1.83	B 2.65
2.04-2.25	2.04-2.25	1.84-2.04	B 3.00
2.26-2.51	2.26-2.51	2.05-2.38	B 3.30
2.52-2.83	2.52-2.83	2.39-2.60	B 3.70
2.84-3.29	2.84-3.29	2.61-3.13	B 4.15
3.30-3.75	3.30-3.75	3.14-3.59	B 4.85
3.76-4.22	3.76-4.22	3.60-3.94	B 5.50
4.23-4.65	4.23-4.65	3.95-4.19	B 6.25
4.66-5.16	4.66-5.16	4.20-4.72	B 6.90
5.17-5.53	5.17-5.53	4.73-5.21	B 7.70
5.54-6.09	5.54-6.09	5.22-5.51	B 8.20
6.10-6.80	6.10-6.80	5.52-6.17	B 9.10
6.81-7.60	6.81-7.60	6.18-7.07	B 10.2
7.61-8.35	7.61-8.35	7.08-8.05	B 11.5
8.36-9.04	8.36-9.04	8.06-8.69	B 12.8
9.05-9.99	9.05-9.99	8.70-9.32	B 14.0
10.0-11.1	10.0-11.1	9.33-10.2	B 15.5
11.2-12.3	11.2-12.0	10.3-11.3	B 17.5
12.4-13.7	—	11.4-12.0	B 19.5
13.8-15.4	—	—	B 22.0
15.5-18.0	—	—	B 25.0
Following Selections for Size 1 Only			
—	11.2-12.3	—	B 17.5
—	12.4-13.7	11.4-12.1	B 19.5
—	13.8-15.4	12.2-13.7	B 22.0
15.5-17.2	15.5-17.2	13.8-15.2	B 25.0
17.3-19.4	17.3-19.4	15.3-17.2	B 28.0
19.5-21.7	19.5-21.7	17.3-18.9	B 32.0
21.8-23.9	21.8-23.9	19.0-21.4	B 36.0
24.0-26.0	24.0-26.0	21.5-23.7	B 40.0
—	—	23.8-26.0	B 45.0

**Thermal Unit Table 16**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)			Thermal Unit Number
1 T.U.	2 T.U.	3 T.U.	
16.2-17.5	15.1-16.2	14.3-15.4	CC 20.9
17.6-18.8	16.3-17.3	15.5-16.4	CC 22.8
18.9-20.5	17.4-19.5	16.5-18.5	CC 24.6
20.6-22.2	19.6-20.7	18.6-19.6	CC 26.3
22.3-23.7	20.8-22.3	19.7-21.1	CC 28.8
23.8-25.4	22.4-24.0	21.2-22.7	CC 31.0
25.5-27.3	24.1-25.7	22.8-24.4	CC 33.3
27.4-29.3	25.8-27.5	24.5-26.1	CC 36.4
29.4-31.5	27.6-29.6	26.2-28.1	CC 39.6
31.6-33.9	29.7-31.7	28.2-30.0	CC 42.7
34.0-36.2	31.8-33.9	30.1-32.1	CC 46.6
36.3-39.3	34.0-36.6	32.2-34.7	CC 50.1
39.4-42.3	36.7-39.3	34.8-37.3	CC 54.5
42.4-45.3	39.4-42.3	37.4-40.1	CC 59.4
45.4-48.3	42.4-44.9	40.2-42.6	CC 64.3
48.4-52.0	45.0-48.3	42.7-45.8	CC 68.5
52.1-54.9	48.4-50.9	45.9-48.3	CC 74.6
55.0-59.7	51.0-55.5	48.4-52.6	CC 81.5
59.8-65.4	55.6-59.9	52.7-56.8	CC 87.7
65.5-69.6	60.0-64.2	56.9-60.9	CC 94.0
69.7-74.8	64.3-68.7	61.0-65.1	CC 103.0
74.9-79.7	68.8-71.4	65.2-67.7	CC 112.0
79.8-83.1	71.5-74.8	67.8-70.9	CC 121.0
83.2-86.0	74.9-78.0	71.0-73.9	CC 132.0
—	78.1-80.7	74.0-76.5	CC 143.0
—	80.8-86.0	76.6-80.2	CC 156.0
—	—	80.3-83.1	CC 167.0
—	—	83.2-86.0	CC 180.0

**Thermal Unit Table 17**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)			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

**Thermal Unit Table 18**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)			Thermal Unit Number
1 T.U.	2 T.U.	3 T.U.	
15.5-16.4	14.4-15.3	13.6-14.5	CC 20.9
16.5-17.6	15.4-16.4	14.6-15.5	CC 22.8
17.7-19.1	16.5-18.4	15.6-17.4	CC 24.6
19.2-20.4	18.5-19.6	17.5-18.5	CC 26.3
20.5-22.1	19.7-21.0	18.6-19.9	CC 28.8
22.2-23.4	21.1-22.7	20.0-21.5	CC 31.0
23.5-25.6	22.8-24.2	21.6-22.9	CC 33.3
25.7-27.3	24.3-25.9	23.0-24.5	CC 36.4
27.4-29.4	26.0-27.8	24.6-26.3	CC 39.6
29.5-31.5	27.9-29.8	26.4-28.2	CC 42.7
31.6-33.7	29.9-31.7	28.3-30.0	CC 46.6
33.8-36.5	31.8-34.2	30.1-32.3	CC 50.1
36.6-39.1	34.3-36.9	32.4-34.9	CC 54.5
39.2-41.7	37.0-39.8	35.0-37.6	CC 59.4
41.8-44.8	39.9-42.3	37.7-40.0	CC 64.3
44.9-48.0	42.4-45.3	40.1-42.8	CC 68.5
48.1-50.7	45.4-47.9	42.9-45.3	CC 74.6
50.8-54.9	48.0-51.9	45.4-49.1	CC 81.5
55.0-59.9	52.0-56.5	49.2-53.4	CC 87.7
60.0-63.3	56.6-60.7	53.5-57.4	CC 94.0
63.4-67.2	60.8-64.8	57.5-61.3	CC 103.0
67.3-72.4	64.9-67.1	61.4-63.5	CC 112.0
72.5-74.9	67.2-70.1	63.6-66.3	CC 121.0
75.0-77.4	70.2-72.9	66.4-69.0	CC 132.0
77.5-80.7	73.0-74.9	69.1-70.9	CC 143.0
80.8-83.1	75.0-77.9	71.0-73.7	CC 156.0
83.2-86.0	78.0-80.9	73.8-76.5	CC 167.0
—	81.0-82.9	76.6-78.4	CC 180.0
—	83.0-86.0	78.5-86.0	CC 196.0

**Thermal Unit Table 19**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
43.6-47.3	CC 54.5
47.4-51.3	CC 59.4
51.4-54.6	CC 64.3
54.7-59.7	CC 68.5
59.8-65.1	CC 74.6
65.2-70.1	CC 81.5
70.2-75.1	CC 87.7
75.2-82.2	CC 94.0
82.3-89.2	CC 103.0
89.3-96.5	CC 112.0
96.6-104.	CC 121.0
105-113.	CC 132.0
114-123.	CC 143.0
124-133.	CC 156.0

**Thermal Unit Table 20**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
133-148.	B 1.30
149-174.	B 1.45
175-195.	B 1.67
196-219.	B 1.88
220-239.	B 2.10
240-271.	B 2.40
272-308.	B 2.65
309-348.	B 3.00
349-397.	B 3.30
398-429.	B 3.70
430-495.	B 4.15
496-520.	B 4.85

**Thermal Unit Table 21**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Load
128-140.	B 1.30
141-163.	B 1.45
164-179.	B 1.67
180-201.	B 1.88
202-227.	B 2.10
228-251.	B 2.40
252-278.	B 2.65
279-308.	B 3.00
309-346.	B 3.30
347-380.	B 3.70
381-426.	B 4.15
427-454.	B 4.85
455-489.	B 5.50
490-520.	B 6.25

**Thermal Unit Table 22**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
92.0–100.	DD 112.0
101.–109.	DD 121.0
110.–119.	DD 128.0
120.–131.	DD 140.0
132.–139.	DD 150.0
140.–156.	DD 160.0
157.–166.	DD 185.0
167.–180.	DD 213.0
181.–189.	DD 220.0
190.–209.	DD 230.0
210.–225.	DD 250.0
226.–238.	DD 265.0
239.–266.	DD 280.0

**Thermal Unit Table 26**  
(index and instructions: [page 16-132 to page 16-136](#))

Size 7 Type J		Size 8 Type K		Thermal Unit Number
Current Transformer Ratio				
120/5	2000/5			
Motor FLC				
166–187.	277–312.			B 1.03
188–211.	313–352.			B 1.16
212–232.	353–388.			B 1.30
233–267.	389–445.			B 1.45
268–301.	446–503.			B 1.67
302–336.	504–561.			B 1.88
337–383.	562–640.			B 2.10
384–425.	641–708.			B 2.40
426–466.	709–777.			B 2.65
467–522.	778–870.			B 3.00
523–587.	871–978.			B 3.30
588–656.	979–1093.			B 3.70
657–764.	1094–1215.			B 4.15

**Thermal Unit Table 31**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	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
0.51–0.61	B 0.71
0.62–0.68	B 0.81
0.69–0.73	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
1.51–1.74	B 2.10
1.75–1.97	B 2.40
1.98–2.14	B 2.65
2.15–2.47	B 3.00
2.48–2.91	B 3.30
2.92–3.31	B 3.70
3.32–3.75	B 4.15
3.76–4.05	B 4.85
4.06–4.94	B 6.25
4.95–5.52	B 6.90
5.53–6.11	B 7.70
6.12–6.52	B 8.20
6.53–7.31	B 9.10
7.32–8.43	B 10.2
8.44–9.83	B 11.5
9.84–10.7	B 12.8
10.8–11.6	B 14.0
11.7–12.9	B 15.5
13.0–14.3	B 17.5
14.4–15.7	B 19.5
15.8–17.8	B 22.0
17.9–20.3	B 25.0
20.4–23.3	B 28.0
23.4–26.6	B 32.0
26.7–30.3	B 36.0
30.4–35.3	B 40.0
35.4–41.5	B 45.0
41.6–45	B 50.0

**Thermal Unit Table 24**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
88.2–95.1	DD 112.0
95.2–101.	DD 121.0
102.–111.	DD 128.0
112.–119.	DD 140.0
120.–131.	DD 150.0
132.–149.	DD 160.0
150.–170.	DD 185.0
171.–180.	DD 220.0
181.–197.	DD 240.0
198.–204.	DD 250.0
205.–213.	DD 265.0
214.–237.	DD 280.0
238.–243.	DD 300.0
244.–266.	DD 320.0

**Thermal Unit Table 28**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
2 or 3 T.U.		
Large Enclosure	Small Enclosure	
45.3–48.2	40.3–42.8	CC 64.3
48.3–52.4	42.9–46.2	CC 68.5
52.5–56.4	46.3–49.8	CC 74.6
56.5–61.2	49.9–54.9	CC 81.5
61.3–66.1	55.0–57.9	CC 87.7
66.2–71.4	58.0–62.5	CC 94.0
71.5–77.0	62.6–67.3	CC 103.0
77.1–80.7	67.4–73.4	CC 112.0
80.8–87.7	73.5–78.9	CC 121.0
87.8–94.9	79.0–84.9	CC 132.0
95.0–102.	85.0–91.0	CC 143.0
103.–110.	91.1–97.2	CC 156.0
111.–117.	97.3–104.	CC 167.0
118.–133.	105.–121.	CC 180.0
—	122.–133.	CC 196.0

**Thermal Unit Table 34**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
15.1–16.2	CC 20.9
16.3–17.5	CC 22.8
17.6–19.1	CC 24.6
19.2–20.7	CC 26.3
20.8–22.2	CC 28.8
22.3–24.0	CC 31.0
24.1–25.7	CC 33.3
25.8–27.8	CC 36.4
27.9–30.1	CC 39.6
30.2–32.5	CC 42.7
32.6–35.1	CC 46.6
35.2–38.0	CC 50.1
38.1–41.1	CC 54.5
41.2–44.0	CC 59.4
44.1–47.2	CC 64.3
47.3–51.1	CC 68.5
51.2–55.8	CC 74.6
55.9–59.5	CC 81.5
59.6–64.5	CC 87.7
64.6–69.5	CC 94.0
69.6–75.0	CC 103.0
75.1–78.1	CC 112.0
78.2–82.3	CC 121.0
82.4–86.0	CC 132.0

**Thermal Unit Table 40**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
15.3–16.7	C 20.0
16.8–19.8	C 22.0
19.9–22.8	C 26.0
22.9–25.8	C 30.0
25.9–30.4	C 34.0
30.5–31.9	C 40.0
32.0–34.2	C 42.0
34.3–38.8	C 45.0
38.9–44.2	C 51.0
44.3–50.2	C 58.0
50.3–57.1	C 66.0
57.2–63.2	C 75.0
63.3–68.6	C 83.0
68.7–78.6	C 90.0
78.7–86.0	C 103.0

**Thermal Unit Table 41**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
0.81-0.92	B 1.16
0.93-1.07	B 1.30
1.08-1.14	B 1.45
1.15-1.26	B 1.67
1.27-1.49	B 1.88
1.50-1.73	B 2.10
1.74-1.89	B 2.40
1.90-2.16	B 2.65
2.17-2.37	B 3.00
2.38-2.66	B 3.30
2.67-2.99	B 3.70
3.00-3.40	B 4.15
3.41-3.94	B 4.85
3.95-4.15	B 5.50
4.16-4.49	B 6.25
4.50-5.15	B 6.90
5.16-5.77	B 7.70
5.78-6.61	B 8.20
6.62-7.14	B 9.10
7.15-7.97	B 10.2
7.98-8.15	B 11.5
8.16-9.32	B 12.8
9.33-9.97	B 14.0
9.98-10.7	B 15.5
10.8-12.0	B 17.5
12.1-13.9	B 19.5
14.0-15.7	B 22.0
15.8-18.4	B 25.0
18.5-21.6	B 28.0
21.7-24.0	B 32.0
24.1-28.6	B 36.0
28.7-30.7	B 40.0
30.8-33.5	B 45.0
33.6-36.0	B 50.0

**Thermal Unit Table 43**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
0.41-0.44	A .49
0.45-0.49	A .54
0.50-0.53	A .59
0.54-0.58	A .65
0.59-0.65	A .71
0.66-0.71	A .78
0.72-0.78	A .86
0.79-0.85	A .95
0.86-0.96	A 1.02
0.97-1.04	A 1.16
1.05-1.16	A 1.25
1.17-1.29	A 1.39
1.30-1.37	A 1.54
1.38-1.47	A 1.63
1.48-1.56	A 1.75
1.57-1.65	A 1.86
1.66-1.79	A 1.99
1.80-1.95	A 2.15
1.96-2.15	A 2.31
2.16-2.38	A 2.57
2.39-2.75	A 2.81
2.76-2.84	A 3.61
2.85-3.06	A 3.95
3.07-3.45	A 4.32
3.46-3.70	A 4.79
3.71-4.07	A 5.30
4.08-4.32	A 5.78
4.33-4.90	A 6.20
4.91-5.35	A 6.99
5.36-5.85	A 7.65
5.86-6.41	A 8.38
6.42-6.79	A 9.25
6.80-7.57	A 9.85
7.58-8.15	A 11.0
8.16-8.98	A 11.9
8.99-9.67	A 13.2
9.68-9.95	A 14.1
9.96-10.8	A 14.8
10.9-12.1	A 16.2
12.2-13.1	A 17.9
13.2-13.9	A 19.8
14.0-15.0	A 21.3
15.1-16.0	A 25.2

**Thermal Unit Table 44**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
0.34-0.38	B 0.44
0.39-0.43	B 0.51
0.44-0.48	B 0.57
0.49-0.53	B 0.65
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
2.53-2.87	B 3.30
2.88-3.28	B 3.70
3.29-3.75	B 4.15
3.76-4.27	B 4.85
4.28-4.77	B 5.50
4.78-5.27	B 6.25
5.28-5.91	B 6.90
5.92-6.25	B 7.70
6.26-6.83	B 8.20
6.84-7.65	B 9.10
7.66-8.55	B 10.2
8.56-9.56	B 11.5
9.57-10.3	B 12.8
10.4-11.3	B 14.0
11.4-12.4	B 15.5
12.5-14.1	B 17.5
14.2-15.7	B 19.5
15.8-17.9	B 22.0
18.0-20.1	B 25.0
20.2-22.5	B 28.0
22.6-25.0	B 32.0

**Thermal Unit Table 49**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
82.5-88.2	DD 112.0
88.3-95.9	DD 121.0
96.0-102.	DD 128.0
103.-109.	DD 140.0
110.-121.	DD 150.0
122.-139.	DD 160.0
140.-154.	DD 185.0
155.-163.	DD 220.0
164.-175.	DD 240.0
176.-184.	DD 250.0
185.-195.	DD 265.0
196.-215.	DD 280.0
216.-224.	DD 300.0
225.-243.	DD 320.0
244.-266.	DD 340.0



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# Thermal Unit Selection

Thermal Unit Selection Tables

### Thermal Unit Table 53

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T. U.	3 T. U.	
0.31-0.33	0.29-0.31	B 0.44
0.34-0.36	0.32-0.36	B 0.51
0.37-0.40	0.37-0.38	B 0.57
0.41-0.48	0.39-0.46	B 0.63
0.49-0.57	0.47-0.55	B 0.71
0.58-0.64	0.56-0.61	B 0.81
0.65-0.70	0.62-0.66	B 0.92
0.71-0.77	0.67-0.75	B 1.03
0.78-0.85	0.76-0.83	B 1.16
0.86-0.99	0.84-0.93	B 1.30
1.00-1.10	0.94-1.06	B 1.45
1.11-1.28	1.07-1.18	B 1.67
1.29-1.41	1.19-1.31	B 1.88
1.42-1.58	1.32-1.47	B 2.10
1.59-1.80	1.48-1.67	B 2.40
1.81-2.03	1.68-1.83	B 2.65
2.04-2.25	1.84-2.04	B 3.00
2.26-2.51	2.05-2.38	B 3.30
2.52-2.83	2.39-2.60	B 3.70
2.84-3.29	2.61-3.13	B 4.15
3.30-3.75	3.14-3.59	B 4.85
3.76-4.22	3.60-3.94	B 5.50
4.23-4.65	3.95-4.19	B 6.25
4.66-5.16	4.20-4.72	B 6.90
5.17-5.53	4.73-5.21	B 7.70
5.54-6.09	5.22-5.51	B 8.20
6.10-6.80	5.52-6.17	B 9.10
6.81-7.60	6.18-7.00	B 10.2
7.61-8.35	—	B 11.5
8.36-9.00	—	B 12.8

### Thermal Unit Table 56

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 or 2 T. U.	3 T. U.	
3.29-3.74	3.18-3.40	B 4.85
3.75-4.23	3.41-3.76	B 5.50
4.24-4.68	3.77-4.00	B 6.25
4.69-5.22	4.01-4.57	B 6.90
5.23-5.67	4.58-5.03	B 7.70
5.68-6.13	5.04-5.32	B 8.20
6.14-6.91	5.33-5.97	B 9.10
6.92-7.70	5.98-6.88	B 10.2
7.71-8.56	6.89-7.82	B 11.5
8.57-9.39	7.83-8.47	B 12.8
9.40-10.4	8.48-9.15	B 14.0
10.5-11.6	9.16-10.1	B 15.5
11.7-12.9	10.2-11.2	B 17.5
13.0-14.6	11.3-12.0	B 19.5
14.7-16.5	12.1-13.6	B 22.0
16.6-18.5	13.7-15.2	B 25.0
18.6-21.0	15.3-17.1	B 28.0
21.1-23.6	17.2-19.0	B 32.0
23.7-26.3	19.1-21.5	B 36.0
26.4-29.3	21.6-24.1	B 40.0
29.4-35.1	24.2-27.0	B 45.0
35.2-36.1	27.1-28.7	B 50.0
36.2-39.1	28.8-30.4	B 56.0
39.2-41.5	30.5-32.2	B 62.0
41.6-45.0	32.3-35.4	B 70.0
—	35.5-38.2	B 79.0
—	38.3-45.0	B 88.0

### Thermal Unit Table 54

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
2 T. U.	3 T. U.	
43.6-45.5	41.1-43.5	CC 64.3
45.6-49.6	43.6-46.8	CC 68.5
49.7-53.1	46.9-50.0	CC 74.6
53.2-57.6	50.1-54.9	CC 81.5
57.7-62.4	55.0-57.5	CC 87.7
62.5-67.5	57.6-61.8	CC 94.0
67.6-71.1	61.9-66.2	CC 103.0
71.2-75.9	66.3-72.4	CC 112.0
76.0-81.9	72.5-78.1	CC 121.0
82.0-84.6	78.2-80.7	CC 132.0
84.7-90.7	80.8-86.5	CC 143.0
90.8-98.4	86.6-93.9	CC 156.0
98.5-105.	94.0-100.	CC 167.0
106.-117.	101.-112.	CC 180.0
118.-123.	113.-117.	CC 196.0
124.-133.	118.-123.	CC 208.0
—	124.-133.	CC 219.0

### Thermal Unit Table 58

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 or 2 T. U.	3 T. U.	
3.37-3.82	3.28-3.51	B 4.85
3.83-4.33	3.52-3.89	B 5.50
4.34-4.79	3.90-4.14	B 6.25
4.80-5.33	4.15-4.73	B 6.90
5.34-5.79	4.74-5.22	B 7.70
5.80-6.27	5.23-5.53	B 8.20
6.28-7.03	5.54-6.21	B 9.10
7.04-7.88	6.22-7.17	B 10.2
7.89-8.73	7.18-8.19	B 11.5
8.74-9.55	8.20-8.90	B 12.8
9.56-10.6	8.91-9.57	B 14.0
10.7-11.8	9.58-10.6	B 15.5
11.9-13.1	10.7-11.8	B 17.5
13.2-14.9	11.9-12.7	B 19.5
15.0-16.9	12.8-14.4	B 22.0
17.0-18.8	14.5-16.1	B 25.0
18.9-21.5	16.2-18.2	B 28.0
21.6-24.1	18.3-20.2	B 32.0
24.2-26.8	20.3-22.8	B 36.0
26.9-29.9	22.9-25.6	B 40.0
30.0-35.5	25.7-28.8	B 45.0
35.6-36.5	28.9-30.6	B 50.0
36.6-39.6	30.7-32.4	B 56.0
39.7-41.5	32.5-34.6	B 62.0
41.6-45.0	34.7-38.6	B 70.0
—	38.7-45.0	B 79.0

16 NEMA AND DEFINITE PURPOSE CONTACTORS AND STARTERS

**Thermal Unit Table 59**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 or 2 T. U.	3 T. U.	
0.34-0.38	0.29-0.31	B 0.44
0.39-0.43	0.32-0.35	B 0.51
0.44-0.47	0.36-0.38	B 0.57
0.48-0.53	0.39-0.46	B 0.63
0.54-0.60	0.47-0.55	B 0.71
0.61-0.68	0.56-0.62	B 0.81
0.69-0.76	0.63-0.67	B 0.92
0.77-0.86	0.68-0.75	B 1.03
0.87-0.97	0.76-0.84	B 1.16
0.98-1.07	0.85-0.95	B 1.30
1.08-1.23	0.96-1.09	B 1.45
1.24-1.39	1.10-1.21	B 1.67
1.40-1.55	1.22-1.35	B 1.88
1.56-1.77	1.36-1.53	B 2.10
1.78-1.96	1.54-1.73	B 2.40
1.97-2.15	1.74-1.90	B 2.65
2.16-2.41	1.91-2.14	B 3.00
2.42-2.71	2.15-2.34	B 3.30
2.72-3.03	2.35-2.67	B 3.70
3.04-3.53	2.68-3.22	B 4.15
3.54-4.01	3.23-3.48	B 4.85
4.02-4.56	3.49-3.87	B 5.50
4.57-5.03	3.88-4.14	B 6.25
5.04-5.59	4.15-4.73	B 6.90
5.60-5.95	4.74-5.28	B 7.70
5.96-6.58	5.29-5.64	B 8.20
6.59-7.31	5.65-6.39	B 9.10
7.32-8.15	6.40-7.43	B 10.2
8.16-9.13	7.44-8.55	B 11.5
9.14-9.91	8.56-9.40	B 12.8
9.92-10.7	9.41-10.0	B 14.0
10.8-12.1	10.1-11.2	B 15.5
12.2-13.5	11.3-12.5	B 17.5
13.6-15.1	12.6-13.5	B 19.5
15.2-17.0	13.6-15.4	B 22.0
17.1-18.9	15.5-17.5	B 25.0
19.0-21.5	17.6-19.9	B 28.0
21.6-24.0	20.0-22.2	B 32.0
24.1-26.0	22.3-25.5	B 36.0
—	25.6-26.0	B 40.0

**Thermal Unit Table 65**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	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 14.0
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 22.0
17.9-20.0	B 25.0
20.1-22.9	B 28.0
23.0-25.0	B 32.0
Following Selections for Size 2 Only.	
23.0-25.7	B 32.0
25.8-28.6	B 36.0
28.7-32.2	B 40.0
32.3-35.8	B 45.0
35.9-40.1	B 50.0
40.2-44.4	B 56.0
44.5-50.0	B 62.0

**Thermal Unit Table 61**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
2 T. U.	3 T. U.	
46.8-50.0	45.3-48.2	CC 64.3
50.1-54.2	48.3-52.4	CC 68.5
54.3-58.3	52.5-56.4	CC 74.6
58.4-63.6	56.5-61.2	CC 81.5
63.7-68.5	61.3-66.1	CC 87.7
68.6-74.0	66.2-71.4	CC 94.0
74.1-79.8	71.5-77.0	CC 103.0
79.9-83.0	77.1-79.0	CC 112.0
83.1-88.9	79.1-84.7	CC 121.0
89.0-95.6	84.8-91.1	CC 132.0
95.7-102.	91.2-98.1	CC 143.0
103.-109.	98.2-104.	CC 156.0
110.-119.	105.-113.	CC 167.0
120.-133.	114.-123.	CC 180.0
—	124.-133.	CC 196.0

**Thermal Unit Table 66**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
0.31-0.32	B 0.44
0.33-0.36	B 0.51
0.37-0.41	B 0.57
0.42-0.49	B 0.63
0.50-0.54	B 0.71
0.55-0.61	B 0.81
0.62-0.67	B 0.92
0.68-0.76	B 1.03
0.77-0.87	B 1.16
0.88-0.98	B 1.30
0.99-1.05	B 1.45
1.06-1.25	B 1.67
1.26-1.33	B 1.88
1.34-1.56	B 2.10
1.57-1.71	B 2.40
1.72-1.97	B 2.65
1.98-2.15	B 3.00
2.16-2.42	B 3.30
2.43-2.78	B 3.70
2.79-3.28	B 4.15
3.29-3.88	B 4.85
3.89-4.13	B 5.5
4.14-4.43	B 6.25
4.44-4.96	B 6.90
4.97-5.35	B 7.70
5.36-5.91	B 8.20
5.92-6.79	B 9.10
6.80-7.56	B 10.2
7.57-7.83	B 11.5
7.84-8.09	B 12.8
8.10-9.51	B 14.0
9.52-10.1	B 15.5
10.2-11.3	B 17.5
11.4-13.1	B 19.5
13.2-14.9	B 22.0
15.0-16.1	B 25.0
16.2-17.8	B 28.0
17.9-19.1	B 32.0
19.2-22.4	B 36.0
22.5-23.5	B 40.0
23.6-26.0	B 45.0



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**Thermal Unit Selection**  
Thermal Unit Selection Tables

**Thermal Unit Table 67**

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
3.79-4.14	B 5.50
4.15-4.44	B 6.25
4.45-5.22	B 6.90
5.23-5.29	B 7.70
5.30-5.99	B 8.20
6.00-6.82	B 9.10
6.83-7.68	B 10.2
7.69-7.92	B 11.5
7.93-8.47	B 12.8
8.48-9.99	B 14.0
10.0-10.8	B 15.5
10.9-12.3	B 17.5
12.4-12.9	B 19.5
13.0-15.1	B 22.0
15.2-16.7	B 25.0
16.8-17.9	B 28.0
18.0-20.1	B 32.0
20.2-23.8	B 36.0
23.9-25.8	B 40.0
25.9-28.3	B 45.0
28.4-29.6	B 50.0
29.7-32.1	B 56.0
32.2-34.4	B 62.0
34.5-38.3	B 70.0
38.4-39.9	B 79.0
40.0-45.0	B 88.0

**Thermal Unit Table 69**

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 or 2 T. U.	3 T. U.	
3.46-3.90	3.38-3.65	B 4.85
3.91-4.44	3.66-4.07	B 5.50
4.45-4.91	4.08-4.36	B 6.25
4.92-5.51	4.37-5.19	B 6.90
5.52-5.84	5.20-5.59	B 7.70
5.85-6.54	5.60-5.98	B 8.20
6.55-7.33	5.99-6.78	B 9.10
7.34-8.31	6.79-7.91	B 10.2
8.32-9.22	7.92-9.12	B 11.5
9.23-10.0	9.13-10.0	B 12.8
10.1-11.2	10.1-10.7	B 14.0
11.3-12.5	10.8-12.0	B 15.5
12.6-14.2	12.1-13.5	B 17.5
14.3-16.1	13.6-14.6	B 19.5
16.2-18.4	14.7-16.7	B 22.0
18.5-20.5	16.8-18.9	B 25.0
20.6-23.2	19.0-21.6	B 28.0
23.3-26.6	21.7-24.1	B 32.0
26.7-29.6	24.2-27.6	B 36.0
29.7-33.5	27.7-31.2	B 40.0
33.6-37.2	31.3-35.5	B 45.0
37.3-41.5	35.6-37.8	B 50.0
41.6-45.0	37.9-41.5	B 56.0
—	41.6-45.0	B 62.0

**Thermal Unit Table 68**

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
14.9-16.1	CC 20.9
16.2-17.3	CC 22.8
17.4-19.5	CC 24.6
19.6-20.7	CC 26.3
20.8-22.4	CC 28.8
22.5-23.9	CC 31.0
24.0-25.8	CC 33.3
25.9-27.6	CC 36.4
27.7-29.7	CC 39.6
29.8-31.8	CC 42.7
31.9-34.2	CC 46.6
34.3-37.0	CC 50.1
37.1-39.6	CC 54.5
39.7-42.5	CC 59.4
42.6-45.0	CC 64.3
45.1-48.6	CC 68.5
48.7-51.2	CC 74.6
51.3-56.0	CC 81.5
56.1-60.1	CC 87.7
60.2-64.3	CC 94.0
64.4-68.9	CC 103.0
69.0-71.9	CC 112.0
72.0-75.4	CC 121.0
75.5-78.9	CC 132.0
79.0-82.1	CC 143.0
82.2-86.0	CC 156.0

**Thermal Unit Table 72**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T. U.	3 T. U.	
2.38-2.62	2.38-2.62	FB 3.33
2.63-2.94	2.63-2.94	FB 3.71
2.95-3.31	2.95-3.31	FB 4.1
3.32-3.43	3.32-3.43	FB 4.5
3.44-3.81	3.44-3.81	FB 4.75
3.82-4.32	3.82-4.32	FB 5.3
4.33-4.75	4.33-4.75	FB 6.1
4.76-5.38	4.76-5.38	FB 6.75
5.39-5.75	5.39-5.75	FB 7.45
5.76-5.97	5.76-5.97	FB 7.8
5.98-6.30	5.98-6.30	FB 8.21
6.31-6.55	6.31-6.55	FB 8.6
6.56-6.89	6.56-6.89	FB 9.0
6.90-7.14	6.90-7.14	FB 9.5
7.15-7.36	7.15-7.36	FB 10.0
7.37-8.30	7.37-8.30	FB 10.6
8.31-8.59	8.31-8.59	FB 11.2
8.60-9.01	8.60-9.01	FB 12.1
9.02-9.68	9.02-9.68	FB 13.1
9.69-9.99	9.69-9.99	FB 13.9
10.0-10.9	10.0-10.9	FB 14.8
11.0-11.3	11.0-11.3	FB 15.6
11.4-12.4	11.4-12.0	FB 16.4
12.5-12.9	—	FB 17.6
13.0-14.0	—	FB 18.4
14.1-14.5	—	FB 19.4
14.6-15.7	—	FB 21.1
15.8-16.6	—	FB 22.6
16.7-18.0	—	FB 23.6
Following Selections for Size M-1 & M-1P Only.		
—	11.4-12.4	FB 16.4
—	12.5-12.9	FB 17.6
—	13.0-14.0	FB 18.4
—	14.1-14.5	FB 19.4
—	14.6-15.7	FB 21.1
—	15.8-16.6	FB 22.6
16.7-17.6	16.7-17.6	FB 23.6
17.7-18.3	17.7-18.3	FB 24.8
18.4-19.4	18.4-19.4	FB 26.7
19.5-20.5	19.5-20.5	FB 28.3
20.6-21.7	20.6-21.7	FB 29.6
21.8-22.8	21.8-22.8	FB 30.5
22.9-24.3	22.9-24.3	FB 32.5
24.4-24.7	24.4-24.7	FB 34.1
24.8-25.4	24.8-25.4	FB 35.0
25.5-26.0	25.5-26.0	FB 36.6
Following Selections for Size M-1P Only.		
26.1-27.7	—	FB 38.3
27.8-28.9	—	FB 40.2
29.0-30.6	—	FB 42.0
30.7-32.5	—	FB 44.0
32.6-36.0	—	FB 46.0

**Thermal Unit Table 73**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T. U.	3 T. U.	
2.42-2.67	2.42-2.67	FB 3.33
2.68-3.00	2.68-3.00	FB 3.71
3.01-3.36	3.01-3.36	FB 4.1
3.37-3.53	3.37-3.53	FB 4.5
3.54-3.91	3.54-3.91	FB 4.75
3.92-4.41	3.92-4.41	FB 5.3
4.42-4.83	4.42-4.83	FB 6.1
4.84-5.45	4.84-5.45	FB 6.75
5.46-5.89	5.46-5.89	FB 7.45
5.90-6.04	5.90-6.04	FB 7.8
6.05-6.55	6.05-6.55	FB 8.21
6.56-6.72	6.56-6.72	FB 8.6
6.73-7.00	6.73-7.00	FB 9.0
7.01-7.39	7.01-7.39	FB 9.5
7.40-7.54	7.40-7.54	FB 10.0
7.55-8.41	7.55-8.41	FB 10.6
8.42-8.91	8.42-8.91	FB 11.2
8.92-9.16	8.92-9.16	FB 12.1
9.17-10.0	9.17-10.0	FB 13.1
10.1-10.3	10.1-10.3	FB 13.9
10.4-11.4	10.4-11.4	FB 14.8
11.5-11.8	11.5-11.8	FB 15.6
11.9-12.9	11.9-12.9	FB 16.4
13.0-13.4	—	FB 17.6
13.5-14.2	—	FB 18.4
14.3-15.1	—	FB 19.4
15.2-18.0	—	FB 21.1
Following Selections for Size M-1 & M-1P Only.		
—	11.5-11.8	FB 15.6
—	11.9-12.9	FB 16.4
—	13.0-13.4	FB 17.6
—	13.5-14.2	FB 18.4
—	14.3-15.1	FB 19.4
15.2-17.1	15.2-17.1	FB 21.1
17.2-18.0	17.2-18.0	FB 22.6
18.1-18.9	18.1-18.9	FB 23.6
19.0-19.7	19.0-19.7	FB 24.8
19.8-20.9	19.8-20.9	FB 26.7
21.0-21.9	21.0-21.9	FB 28.3
22.0-23.1	22.0-23.1	FB 29.6
23.2-24.3	23.2-24.3	FB 30.5
24.4-25.5	24.4-25.5	FB 32.6
25.6-26.0	25.6-26.0	FB 34.1
Following Selections for Size M-1P Only.		
26.1-26.8	—	FB 35.0
26.9-27.3	—	FB 36.6
27.4-28.7	—	FB 38.3
28.8-30.2	—	FB 40.2
30.3-31.9	—	FB 42.0
32.0-36.0	—	FB 44.0



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# Thermal Unit Selection

Thermal Unit Selection Tables

# Thermal Units

### Thermal Unit Table 74

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T. U.	3 T. U.	
2.23-2.47	2.23-2.47	FB 3.33
2.48-2.76	2.48-2.76	FB 3.71
2.77-3.04	2.77-3.04	FB 4.1
3.05-3.24	3.05-3.24	FB 4.5
3.25-3.61	3.25-3.61	FB 4.75
3.62-4.19	3.62-4.19	FB 5.3
4.20-4.62	4.20-4.62	FB 6.1
4.63-5.14	4.63-5.14	FB 6.75
5.15-5.39	5.15-5.39	FB 7.45
5.40-5.69	5.40-5.69	FB 7.8
5.70-5.99	5.70-5.99	FB 8.21
6.00-6.29	6.00-6.29	FB 8.6
6.30-6.64	6.30-6.64	FB 9.0
6.65-6.99	6.65-6.99	FB 9.5
7.00-7.39	7.00-7.39	FB 10.0
7.40-7.79	7.40-7.79	FB 10.6
7.80-7.94	7.80-7.94	FB 11.2
7.95-8.49	7.95-8.49	FB 12.1
8.50-8.99	8.50-8.99	FB 13.1
9.00-9.59	9.00-9.59	FB 13.9
9.60-10.1	9.60-10.1	FB 14.8
10.2-10.6	10.2-10.6	FB 15.6
10.7-11.3	10.7-11.3	FB 16.4
11.4-12.0	11.4-12.0	FB 17.6
12.0-12.6	—	FB 18.4
12.7-13.8	—	FB 19.4
13.9-14.7	—	FB 21.1
14.8-15.2	—	FB 22.6
15.3-16.2	—	FB 23.6
16.3-18.0	—	FB 24.8
Following Selections for Size 1 Only.		
—	12.0-12.6	FB 18.4
—	12.7-13.8	FB 19.4
13.9-14.7	13.9-14.7	FB 21.1
14.8-15.2	14.8-15.2	FB 22.6
15.3-16.2	15.3-16.2	FB 23.6
16.3-17.4	16.3-17.4	FB 24.8
17.5-18.5	17.5-18.5	FB 26.7
18.6-19.6	18.6-19.6	FB 28.3
19.7-20.2	19.7-20.2	FB 29.6
20.3-21.5	20.3-21.5	FB 30.5
21.6-22.4	21.6-22.4	FB 32.6
22.5-23.2	22.5-23.2	FB 34.1
23.3-24.3	23.3-24.3	FB 35.0
24.4-25.4	24.4-25.4	FB 36.6
25.5-26.0	25.5-26.0	FB 38.3

### Thermal Unit Table 76

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
19.9-20.8	FB 26.7
20.9-22.2	FB 28.3
22.3-23.8	FB 29.6
23.9-25.4	FB 30.5
25.5-27.2	FB 32.6
27.3-29.2	FB 34.1
29.3-31.9	FB 38.3
32.0-33.8	FB 40.2
33.9-36.1	FB 42.0
36.2-38.5	FB 44.0
38.6-41.4	FB 46.0
41.5-43.6	FB 48.0
43.7-45.9	FB 50.5
46.0-48.2	FB 52.5
48.3-50.7	FB 55.5
50.8-53.9	FB 58.0
54.0-56.7	FB 60.0
56.8-60.8	FB 63.5
60.9-67.6	FB 69.0
67.7-73.6	FB 77.0
73.7-82.9	FB 84.0
83.0-86.0	FB 92.0

### Thermal Unit Table 75

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
3.22-3.57	FB 4.75
3.58-4.14	FB 5.3
4.15-4.56	FB 6.1
4.57-5.10	FB 6.75
5.11-5.39	FB 7.45
5.40-5.64	FB 7.8
5.65-5.96	FB 8.21
5.97-6.25	FB 8.6
6.26-6.58	FB 9.0
6.59-6.91	FB 9.5
6.92-7.41	FB 10.0
7.42-7.82	FB 10.6
7.83-8.32	FB 11.2
8.33-8.89	FB 12.1
8.90-9.47	FB 13.1
9.48-10.0	FB 13.9
10.1-10.5	FB 14.8
10.6-11.1	FB 15.6
11.2-12.0	FB 16.4
12.1-12.7	FB 17.6
12.8-13.5	FB 18.4
13.6-14.6	FB 19.4
14.7-15.7	FB 21.1
15.8-16.5	FB 22.6
16.6-17.4	FB 23.6
17.5-18.8	FB 24.8
18.9-20.1	FB 26.7
20.2-21.0	FB 28.3
21.1-21.6	FB 29.6
21.7-23.3	FB 30.5
23.4-24.3	FB 32.6
24.4-25.0	FB 34.1
25.1-26.3	FB 35.0
26.4-27.6	FB 36.6
27.7-29.1	FB 38.3
29.2-30.4	FB 40.2
30.5-32.0	FB 42.0
32.1-33.3	FB 44.0
33.4-35.2	FB 46.0
35.3-37.0	FB 48.0
37.1-38.5	FB 50.5
38.6-40.7	FB 52.5
40.8-45.0	FB 55.5

### Thermal Unit Table 77

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
48.0-50.9	FB 50.5
51.0-53.7	FB 52.5
53.8-57.0	FB 55.5
57.1-60.4	FB 58.0
60.5-64.0	FB 60.0
64.1-71.9	FB 63.5
72.0-83.9	FB 69.0
84.0-93.1	FB 77.0
93.2-104	FB 84.0
105-109	FB 92.0
110-123	FB 105.0
124-133	FB 115.0

16 NEMA AND DEFINITE PURPOSE CONTACTORS AND STARTERS

**Thermal Unit Table 78**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T. U.	2 T. U. or 3 T. U.	
2.26-2.51	2.26-2.51	FB 3.33
2.52-2.82	2.52-2.82	FB 3.71
2.83-3.09	2.83-3.09	FB 4.1
3.10-3.30	3.10-3.30	FB 4.5
3.31-3.69	3.31-3.69	FB 4.75
3.70-4.27	3.70-4.27	FB 5.3
4.28-4.72	4.28-4.72	FB 6.1
4.73-5.25	4.73-5.25	FB 6.75
5.26-5.53	5.26-5.53	FB 7.45
5.54-5.81	5.54-5.81	FB 7.8
5.82-6.14	5.82-6.14	FB 8.21
6.15-6.44	6.15-6.44	FB 8.6
6.45-6.81	6.45-6.81	FB 9.0
6.82-7.19	6.82-7.19	FB 9.5
7.20-7.59	7.20-7.59	FB 10.0
7.60-7.99	7.60-7.99	FB 10.6
8.00-8.17	8.00-8.17	FB 11.2
8.18-8.74	8.18-8.74	FB 12.1
8.75-9.31	8.75-9.31	FB 13.1
9.32-9.94	9.32-9.94	FB 13.9
9.95-10.5	9.95-10.5	FB 14.8
10.6-11.1	10.6-11.1	FB 15.6
11.2-11.9	11.2-12.0	FB 16.4
12.0-12.4	—	FB 17.6
12.5-13.1	—	FB 18.4
13.2-14.3	—	FB 19.4
14.4-15.3	—	FB 21.1
15.4-15.9	—	FB 22.6
16.0-18.0	—	FB 23.6
Following Selections for Size 1 Only.		
—	12.0-12.4	FB 17.6
—	12.5-13.1	FB 18.4
—	13.2-14.3	FB 19.4
14.4-15.3	14.4-15.3	FB 21.1
15.4-15.9	15.4-15.9	FB 22.6
16.0-16.9	16.0-16.9	FB 23.6
17.0-18.3	17.0-18.3	FB 24.8
18.4-19.5	18.4-19.5	FB 26.7
19.6-20.5	19.6-20.5	FB 28.3
20.6-21.1	20.6-21.1	FB 29.6
21.2-22.6	21.2-22.6	FB 30.5
22.7-23.7	22.7-23.7	FB 32.6
23.8-24.3	23.8-24.3	FB 35.0
24.4-26.0	24.4-26.0	FB 35.0

**Thermal Unit Table 80**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
20.5-21.7	FB 26.7
21.8-23.1	FB 28.3
23.2-24.8	FB 29.6
24.9-26.5	FB 30.5
26.6-28.4	FB 32.6
28.5-30.4	FB 34.1
30.5-32.8	FB 38.3
32.9-34.9	FB 40.2
35.0-37.3	FB 42.0
37.4-39.8	FB 44.0
39.9-42.5	FB 46.0
42.6-45.8	FB 48.0
45.9-48.2	FB 50.5
48.3-50.6	FB 52.5
50.7-53.1	FB 55.5
53.2-56.5	FB 58.0
56.6-59.4	FB 60.0
59.5-63.4	FB 63.5
63.5-71.0	FB 69.0
71.1-78.8	FB 77.0
78.9-86.0	FB 84.0

**Thermal Unit Table 79**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
3.31-3.67	FB 4.75
3.68-4.23	FB 5.3
4.24-4.69	FB 6.1
4.70-5.21	FB 6.75
5.22-5.49	FB 7.45
5.50-5.74	FB 7.8
5.75-6.07	FB 8.21
6.08-6.35	FB 8.6
6.36-6.71	FB 9.0
6.72-7.03	FB 9.5
7.04-7.53	FB 10.0
7.54-7.91	FB 10.6
7.92-8.53	FB 11.2
8.54-9.14	FB 12.1
9.15-9.71	FB 13.1
9.72-10.2	FB 13.9
10.3-10.8	FB 14.8
10.9-11.5	FB 15.6
11.6-12.3	FB 16.4
12.4-13.0	FB 17.6
13.1-13.9	FB 18.4
14.0-15.1	FB 19.4
15.2-16.1	FB 21.1
16.2-16.9	FB 22.6
17.0-17.9	FB 23.6
18.0-19.4	FB 24.8
19.5-20.7	FB 26.7
20.8-21.7	FB 28.3
21.8-22.3	FB 29.6
22.4-23.9	FB 30.5
24.0-25.1	FB 32.6
25.2-25.9	FB 34.1
26.0-27.1	FB 35.0
27.2-28.6	FB 36.6
28.7-30.1	FB 38.3
30.2-31.7	FB 40.2
31.8-33.3	FB 42.0
33.4-34.5	FB 44.0
34.6-36.5	FB 46.0
36.6-38.5	FB 48.0
38.6-39.9	FB 50.5
40.0-45.0	FB 52.5

**Thermal Unit Table 81**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
52.2-55.6	FB 50.5
55.7-58.8	FB 52.5
58.9-62.5	FB 55.5
62.6-66.0	FB 58.0
66.1-70.1	FB 60.0
70.2-78.6	FB 63.5
78.7-92.0	FB 69.0
92.1-102	FB 77.0
103-114	FB 84.0
115-123	FB 92.0
124-133	FB 105.0



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Thermal Unit Table 82

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
2.36-2.63	FB 3.33
2.64-2.96	FB 3.71
2.97-3.23	FB 4.1
3.24-3.45	FB 4.5
3.46-3.86	FB 4.75
3.87-4.44	FB 5.3
4.45-4.95	FB 6.1
4.96-5.47	FB 6.75
5.48-5.75	FB 7.45
5.76-6.09	FB 7.8
6.10-6.42	FB 8.21
6.43-6.75	FB 8.6
6.76-7.16	FB 9.0
7.17-7.43	FB 9.5
7.44-7.99	FB 10.0
8.00-8.46	FB 10.6
8.47-9.19	FB 11.2
9.20-9.74	FB 12.1
9.75-10.3	FB 13.1
10.4-10.8	FB 13.9
10.9-11.6	FB 14.8
11.7-12.2	FB 15.6
12.3-13.1	FB 16.4
13.2-13.7	FB 17.6
13.8-14.3	FB 18.4
14.4-15.5	FB 19.4
15.6-16.7	FB 21.1
16.8-17.6	FB 22.6
17.7-18.6	FB 23.6
18.7-19.9	FB 24.8
20.0-21.1	FB 26.7
21.2-25.0	FB 105.0

Thermal Unit Table 84

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
3.38-3.78	FB 4.75
3.79-4.37	FB 5.3
4.38-4.87	FB 6.1
4.88-5.51	FB 6.75
5.52-5.73	FB 7.45
5.74-6.09	FB 7.8
6.10-6.44	FB 8.21
6.45-6.75	FB 8.6
6.76-7.15	FB 9.0
7.16-7.57	FB 9.5
7.58-8.07	FB 10.0
8.08-8.47	FB 10.6
8.48-8.81	FB 11.2
8.82-9.46	FB 12.1
9.47-10.1	FB 13.1
10.2-10.8	FB 13.9
10.9-11.4	FB 14.8
11.5-12.1	FB 15.6
12.2-13.1	FB 16.4
13.2-13.8	FB 17.6
13.9-14.8	FB 18.4
14.9-16.1	FB 19.4
16.2-17.4	FB 21.1
17.5-18.3	FB 22.6
18.4-19.5	FB 23.6
19.6-21.0	FB 24.8
21.1-22.5	FB 26.7
22.6-23.7	FB 28.3
23.8-24.5	FB 29.6
24.6-26.4	FB 30.5
26.5-27.7	FB 32.6
27.8-28.7	FB 34.1
28.8-29.9	FB 35.0
30.0-31.8	FB 36.6
31.9-33.5	FB 38.3
33.6-35.1	FB 40.2
35.2-37.1	FB 42.0
37.2-38.8	FB 44.0
38.9-41.1	FB 46.0
41.2-45.0	FB 48.0

Thermal Unit Table 83

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
2.30-2.60	FB 3.33
2.61-2.87	FB 3.71
2.88-3.17	FB 4.1
3.18-3.37	FB 4.5
3.38-3.76	FB 4.75
3.77-4.29	FB 5.3
4.30-4.75	FB 6.1
4.76-5.26	FB 6.75
5.27-5.51	FB 7.45
5.52-5.78	FB 7.8
5.79-6.13	FB 8.21
6.14-6.41	FB 8.6
6.42-6.75	FB 9.0
6.76-7.09	FB 9.5
7.10-7.57	FB 10.0
7.58-7.90	FB 10.6
7.91-8.81	FB 11.2
8.82-9.47	FB 12.1
9.48-10.0	FB 13.1
10.1-10.7	FB 13.9
10.8-11.4	FB 14.8
11.5-12.1	FB 15.6
12.2-13.1	FB 16.4
13.2-13.7	FB 17.6
13.8-14.7	FB 18.4
14.8-16.0	FB 19.4
16.1-17.3	FB 21.1
17.4-18.2	FB 22.6
18.3-19.4	FB 23.6
19.5-20.7	FB 24.8
20.8-22.3	FB 26.7
22.4-23.5	FB 28.3
23.6-24.2	FB 29.6
24.3-26.0	FB 30.5

Thermal Unit Table 85

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
42.9-45.4	FB 44.0
45.6-48.3	FB 46.0
48.4-52.4	FB 48.0
52.5-55.9	FB 50.5
56.0-59.8	FB 52.5
59.9-63.8	FB 55.5
63.9-67.9	FB 58.0
68.0-72.6	FB 60.0
72.7-83.2	FB 63.5
83.3-94.7	FB 69.0
94.8-105	FB 77.0
106-116	FB 84.0
117-121	FB 92.0
122-133	FB 105.0

**Thermal Unit Table 86**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
0.43-0.44	A 49
0.45-0.47	A 54
0.48-0.53	A 59
0.54-0.61	A 65
0.62-0.65	A 71
0.66-0.71	A 78
0.72-0.79	A 86
0.80-0.86	A 95
0.87-0.96	A 1.02
0.97-1.04	A 1.16
1.05-1.17	A 1.25
1.18-1.31	A 1.39
1.32-1.38	A 1.54
1.39-1.47	A 1.63
1.48-1.57	A 1.75
1.58-1.65	A 1.86
1.66-1.77	A 1.99
1.78-1.93	A 2.15
1.94-2.18	A 2.31
2.19-2.46	A 2.57
2.47-2.68	A 2.81
2.69-2.87	A 3.61
2.88-3.07	A 3.95
3.08-3.59	A 4.32
3.60-3.79	A 4.79
3.80-4.27	A 5.30
4.28-4.59	A 5.78
4.60-4.90	A 6.20
4.91-5.06	A 6.99
5.07-5.44	A 7.65
5.45-6.24	A 8.38
6.25-7.21	A 9.25
7.22-7.69	A 9.85
7.70-8.24	A 11.0
8.25-8.81	A 11.9
8.82-9.32	A 13.2
9.33-9.99	A 14.1
10.0-10.5	A 14.8
10.6-11.5	A 16.2
11.6-12.2	A 17.9
12.3-13.3	A 21.3
13.4-15.8	A 25.2
15.9-18.4	A 27.1
18.5-20.5	A 29.5
20.6-21.5	A 31.9
21.6-23.9	A 33.8
24.0-26.8	A 35.9
26.9-28.2	A 40.0
28.3-29.8	A 42.3
29.9-32.0	A 44.7

**Thermal Unit Table 88**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
0.39-0.40	A 49
0.41-0.44	A 54
0.45-0.49	A 59
0.50-0.57	A 65
0.58-0.61	A 71
0.62-0.66	A 78
0.67-0.73	A 86
0.74-0.80	A 95
0.81-0.90	A 1.02
0.91-0.97	A 1.16
0.98-1.09	A 1.25
1.10-1.23	A 1.39
1.24-1.57	A 1.86
1.58-1.66	A 1.99
1.67-1.79	A 2.15
1.80-1.99	A 2.31
2.00-2.31	A 2.57
2.32-2.50	A 2.81
2.51-2.66	A 3.61
2.67-2.85	A 3.95
2.86-3.26	A 4.32
3.27-3.49	A 4.79
3.50-3.92	A 5.30
3.93-4.20	A 5.78
4.21-4.49	A 6.20
4.50-4.64	A 6.99
4.65-4.94	A 7.65
4.95-5.62	A 8.38
5.63-6.39	A 9.25
6.40-6.82	A 9.85
6.83-7.27	A 11.0
7.28-7.71	A 11.9
7.72-8.13	A 13.2
8.14-8.64	A 14.1
8.65-9.15	A 14.8
9.16-9.97	A 16.2
9.98-11.0	A 17.9

**Thermal Unit Table 87**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
0.40-0.41	A 49
0.42-0.45	A 54
0.46-0.51	A 59
0.52-0.58	A 65
0.59-0.63	A 71
0.64-0.68	A 78
0.69-0.76	A 86
0.77-0.83	A 95
0.84-0.93	A 1.02
0.94-1.01	A 1.16
1.02-1.14	A 1.25
1.15-1.28	A 1.39
1.29-1.34	A 1.54
1.35-1.44	A 1.63
1.45-1.55	A 1.75
1.56-1.61	A 1.86
1.62-1.71	A 1.99
1.72-1.85	A 2.15
1.86-2.04	A 2.31
2.05-2.38	A 2.57
2.39-2.60	A 2.81
2.61-2.77	A 3.61
2.78-2.98	A 3.95
2.99-3.40	A 4.32
3.41-3.64	A 4.79
3.65-4.08	A 5.30
4.09-4.38	A 5.78
4.39-4.68	A 6.20
4.69-4.79	A 6.99
4.80-5.11	A 7.65
5.12-5.84	A 8.38
5.85-6.70	A 9.25
6.71-7.18	A 9.85
7.19-7.70	A 11.0
7.71-8.14	A 11.9
8.15-8.56	A 13.2
8.57-9.15	A 14.1
9.16-9.80	A 14.8
9.81-10.6	A 16.2
10.7-11.0	A 17.9

**Thermal Unit Table 89**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
10.0-11.1	B 17.5
11.2-12.0	B 19.5
12.1-13.3	B 22.0
13.4-15.1	B 25.0
15.2-17.1	B 28.0
17.2-18.6	B 32.0
18.7-21.4	B 36.0
21.5-25.7	B 40.0
25.8-28.2	B 45.0
28.3-29.7	B 50.0
29.8-31.2	B 56.0
31.3-32.1	B 62.0
32.2-35.7	B 70.0
35.8-40.7	B 79.0
40.8-48.0	B 88.0

**Thermal Unit Table 90**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
4.88-5.13	A 7.65
5.14-5.85	A 8.38
5.86-6.67	A 9.25
6.68-7.09	A 9.85
7.10-7.62	A 11.0
7.63-8.04	A 11.9
8.05-8.46	A 13.2
8.47-9.11	A 14.1
9.12-9.69	A 14.8
9.70-10.5	A 16.2
10.6-11.6	A 17.9
11.7-12.3	A 21.3
12.4-14.6	A 25.2
14.7-16.8	A 27.1
16.9-17.9	A 29.5
18.0-18.7	A 31.9
18.8-19.8	A 33.8
19.9-21.4	A 35.9
21.5-22.8	A 40.0
22.9-23.8	A 42.3
23.9-26.0	A 44.7



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Thermal Unit Table 91

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
4.80-5.07	A 7.65
5.08-5.73	A 8.38
5.74-6.48	A 9.25
6.49-6.90	A 9.85
6.91-7.25	A 11.0
7.26-7.81	A 11.9
7.82-8.29	A 13.2
8.30-8.81	A 14.1
8.82-9.40	A 14.8
9.41-10.0	A 16.2
10.1-11.1	A 17.9
11.2-11.7	A 21.3
11.8-13.7	A 25.2
13.8-16.0	A 27.1
16.1-16.9	A 29.5
17.0-17.7	A 31.9
17.8-18.7	A 33.8
18.8-20.2	A 35.9
20.3-21.4	A 40.0
21.5-22.5	A 42.3
22.6-23.8	A 44.7
23.9-26.0	A 48.0

Thermal Unit Table 93

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
23.8-25.2	CC 36.4
25.3-26.8	CC 39.6
26.9-28.4	CC 42.7
28.5-30.3	CC 46.6
30.4-32.1	CC 50.1
32.2-34.2	CC 54.5
34.3-36.3	CC 59.4
36.4-40.2	CC 64.3
40.3-43.1	CC 68.5
43.2-45.9	CC 74.6
46.0-49.2	CC 81.5
49.3-51.6	CC 87.7
51.7-54.2	CC 94.0
54.3-55.7	CC 103.0
55.8-60.3	CC 112.0
60.4-63.5	CC 121.0
63.6-67.1	CC 132.0
67.2-70.3	CC 143.0
70.4-74.1	CC 156.0
74.2-78.3	CC 167.0
78.4-83.3	CC 180.0
83.4-86.0	CC 196.0

Thermal Unit Table 95

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
42.5-44.7	CC 64.3
44.8-47.9	CC 68.5
48.0-51.2	CC 74.6
51.3-55.2	CC 81.5
55.3-59.4	CC 87.7
59.5-63.8	CC 94.0
63.9-68.8	CC 103.0
68.9-73.8	CC 112.0
73.9-77.7	CC 121.0
77.8-82.5	CC 132.0
82.6-86.6	CC 143.0
86.7-91.9	CC 156.0
92.0-97.2	CC 167.0
97.3-104	CC 180.0
105-114	CC 196.0
115-123	CC 208.0
124-150	CC 219.0

Thermal Unit Table 92

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
10.5-11.7	B 17.5
11.8-12.5	B 19.5
12.6-14.0	B 22.0
14.1-15.8	B 25.0
15.9-18.0	B 28.0
18.1-19.6	B 32.0
19.7-23.5	B 36.0
23.6-27.4	B 40.0
27.5-30.5	B 45.0
30.6-32.2	B 50.0
32.3-34.0	B 56.0
34.1-35.2	B 62.0
35.3-39.5	B 70.0
39.6-43.9	B 79.0
44.0-48.0	B 88.0

Thermal Unit Table 94

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
25.8-27.5	CC 36.4
27.6-29.4	CC 39.6
29.5-31.4	CC 42.7
31.5-33.2	CC 46.6
33.3-36.2	CC 50.1
36.3-38.8	CC 54.5
38.9-41.6	CC 59.4
41.7-44.7	CC 64.3
44.8-47.9	CC 68.5
48.0-50.9	CC 74.6
51.0-54.4	CC 81.5
54.5-57.4	CC 87.7
57.5-60.6	CC 94.0
60.7-63.9	CC 103.0
64.0-68.4	CC 112.0
68.5-73.4	CC 121.0
73.5-78.7	CC 132.0
78.8-83.8	CC 143.0
83.9-86.0	CC 156.0

Thermal Unit Table 96

(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)	Thermal Unit Number
49.5-52.0	CC 64.3
52.1-54.8	CC 68.5
54.9-58.7	CC 74.6
58.8-63.3	CC 81.5
63.4-68.3	CC 87.7
68.4-73.6	CC 94.0
73.7-79.4	CC 103.0
79.5-85.5	CC 112.0
85.6-89.7	CC 121.0
89.8-94.8	CC 132.0
94.9-99.9	CC 143.0
100-105	CC 156.0
106-111	CC 167.0
112-126	CC 180.0
127-131	CC 196.0
132-141	CC 208.0
142-150	CC 219.0

**Thermal Unit Table 103**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
40.8-45.5	B 1.03
45.6-49.9	B 1.16
51.0-57.5	B 1.30
57.6-65.9	B 1.45
66.0-73.1	B 1.67
73.2-81.5	B 1.88
81.6-92.3	B 2.10
92.4-104	B 2.40
105-114	B 2.65
115-128	B 3.00
129-140	B 3.30
141-160	B 3.70
161-193	B 4.15
194-209	B 4.85
210-232	B 5.50
233-248	B 6.25
249-266	B 6.90

**Thermal Unit Table 104**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number	Max. Fuse Rating (A)	
0.65-0.73	B 1.03	1.50	
0.74-0.82	B 1.16	1.50	
0.93-0.91	B 1.30	1.60	
0.92-1.04	B 1.45	2.00	
1.05-1.16	B 1.67	2.00	
1.17-1.26	B 1.88	2.25	
1.27-1.47	B 2.10	2.60	
1.48-1.65	B 2.40	3.00	
1.66-1.89	B 2.65	3.50	
1.90-2.17	B 3.00	4.00	
2.18-2.49	B 3.30	4.50	
2.50-2.79	B 3.70	5.00	
2.80-3.13	B 4.15	5.60	
3.14-3.36	B 4.85	6.00	
3.37-3.69	B 5.50	7.00	
3.70-3.92	B 6.25	7.00	
3.93-4.42	B 6.90	8.00	
4.43-4.99	B 7.70	9.00	
5.00-5.27	B 8.20	10.0	
5.28-5.84	B 9.10	12.0	
5.85-6.61	B 10.2	12.0	
6.62-7.42	B 11.5	15.0	
7.43-8.02	B 12.8	15.0	
8.03-8.53	B 14.0	15.0	
8.54-9.34	B 15.5	17.5	
9.35-10.1	B 17.5	17.5	
10.2-10.8	B 19.5	20.0	
10.9-12.0	B 22.0	25.0	
12.1-13.0	B 25.0	25.0	
13.1-15.5	B 28.0	30.0	
		600 V Max.	250 V Max.
15.6-17.9	B 32.0	30	30
18.0-21.4	B 36.0	30	40
21.5-25.1	B 40.0	30	40
25.2-27.0	B 45.0	30	40

**Thermal Unit Table 105**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
105-112	CC 74.6
113-122	CC 81.5
123-131	CC 87.7
132-142	CC 94.0
143-153	CC 103.0
154-157	CC 112.0
158-169	CC 121.0
170-181	CC 132.0
182-195	CC 143.0
196-209	CC 156.0
210-227	CC 167.0
228-247	CC 180.0
248-266	CC 196.0

**Thermal Unit Table 109**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
0.56-0.63	B 0.81
0.64-0.68	B 0.92
0.69-0.77	B 1.03
0.78-0.85	B 1.16
0.86-0.97	B 1.30
0.98-1.09	B 1.45
1.10-1.21	B 1.67
1.22-1.33	B 1.88
1.34-1.53	B 2.10
1.54-1.73	B 2.40
1.74-1.89	B 2.65
1.90-2.17	B 3.00
2.18-2.53	B 3.30
2.54-2.87	B 3.70
2.88-3.22	B 4.15
3.23-3.49	B 4.85
3.50-3.85	B 5.50
3.86-4.11	B 6.25
4.12-4.70	B 6.90
4.71-5.21	B 7.70
5.22-5.53	B 8.20
5.54-6.17	B 9.10
6.18-7.02	B 10.2
7.03-7.92	B 11.5
7.93-8.61	B 12.8
8.62-9.17	B 14.0
9.18-10.0	B 15.5
10.1-11.0	B 17.5
11.1-11.8	B 19.5
11.9-13.5	B 22.0
13.6-15.3	B 25.0
15.4-17.4	B 28.0
17.5-19.4	B 32.0
19.5-22.2	B 36.0
22.3-25.1	B 40.0
25.2-27.0	B 45.0

**Thermal Unit Table 110**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
3.94–4.45	B 6.90
4.46–4.97	B 7.70
4.98–5.28	B 8.20
5.29–5.97	B 9.10
5.98–6.89	B 10.2
6.90–7.92	B 11.5
7.93–8.71	B 12.8
8.72–9.27	B 14.0
9.28–10.2	B 15.5
10.3–11.4	B 17.5
11.5–12.3	B 19.5
12.4–13.9	B 22.0
14.0–15.8	B 25.0
15.9–17.9	B 28.0
18.0–19.9	B 32.0
20.0–22.8	B 36.0
22.9–25.4	B 40.0
25.5–28.9	B 45.0
29.0–30.8	B 50.0
30.9–32.5	B 56.0
32.6–34.9	B 62.0
35.0–39.7	B 70.0
39.8–44.7	B 79.0

**Thermal Unit Table 112**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
44.0–46.8	CC 64.3
46.9–50.6	CC 68.5
50.7–54.5	CC 74.6
54.6–58.4	CC 81.5
58.5–62.9	CC 87.7
63.0–67.7	CC 94.0
67.8–72.9	CC 103.0
73.0–78.1	CC 112.0
78.2–83.9	CC 121.0
84.0–91.1	CC 132.0
91.2–97.5	CC 143.0
97.6–104	CC 156.0
105–113	CC 167.0
114–133	CC 180.0

**Thermal Unit Table 114**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
133–148	B 1.30
149–174	B 1.45
175–195	B 1.67
196–219	B 1.88
220–239	B 2.10
240–271	B 2.40
272–308	B 2.65
309–348	B 3.00
349–397	B 3.30
398–429	B 3.70
430–495	B 4.15
496–520	B 4.85

**Thermal Unit Table 116**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
81.6–91.1	B 1.03
91.2–101	B 1.16
102–115	B 1.30
116–131	B 1.45
132–146	B 1.67
147–163	B 1.88
164–184	B 2.10
185–209	B 2.40
210–229	B 2.65
230–257	B 3.00
258–281	B 3.30
282–321	B 3.70
322–387	B 4.15
388–419	B 4.35
420–465	B 5.60
466–497	B 6.25
498–532	B 6.90

**Thermal Unit Table 111**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
14.0–14.9	CC 20.9
15.0–16.2	CC 22.8
16.3–17.2	CC 24.6
17.3–18.7	CC 26.3
18.8–20.2	CC 28.8
20.3–21.7	CC 31.0
21.8–23.3	CC 33.3
23.4–25.2	CC 36.4
25.3–27.1	CC 39.6
27.2–29.4	CC 42.7
29.5–31.6	CC 46.6
31.7–34.0	CC 50.1
34.1–36.8	CC 54.5
36.9–39.8	CC 59.4
39.9–42.3	CC 64.3
42.4–45.7	CC 68.5
45.8–49.2	CC 74.6
49.3–52.8	CC 81.5
52.9–56.8	CC 87.7
56.9–61.2	CC 94.0
61.3–66.1	CC 103.0
66.2–71.2	CC 112.0
71.3–76.7	CC 121.0
76.8–82.9	CC 132.0
83.0–90.0	CC 143.0

**Thermal Unit Table 113**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
88.2–95.1	DD 112.0
95.2–101	DD 121.0
102–111	DD 128.0
112–119	DD 140.0
120–131	DD 150.0
132–149	DD 160.0
150–170	DD 185.0
171–180	DD 220.0
181–197	DD 240.0
198–204	DD 250.0
205–213	DD 265.0
214–237	DD 280.0
238–243	DD 300.0
244–266	DD 320.0

**Thermal Unit Table 115**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
176–190	DD 112.0
191–203	DD 121.0
203–223	DD 128.0
224–239	DD 140.0
240–253	DD 150.0
254–299	DD 160.0
300–341	DD 185.0
342–361	DD 220.0
362–395	DD 240.0
396–409	DD 250.0
410–427	DD 265.0
428–475	DD 289.0
476–487	DD 300.0
488–532	DD 320.0

**Thermal Unit Table 127**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
1.12-1.27	B 0.81
1.28-1.37	B 0.92
1.38-1.55	B 1.03
1.56-1.71	B 1.16
1.72-1.95	B 1.30
1.96-2.19	B 1.45
2.20-2.43	B 1.67
2.44-2.67	B 1.88
2.68-3.07	B 2.10
3.08-3.47	B 2.40
3.48-3.79	B 2.65
3.80-4.35	B 3.00
4.36-5.07	B 3.30
5.08-5.75	B 3.70
5.76-6.45	B 4.15
6.46-6.99	B 4.85
7.00-7.71	B 5.50
7.72-8.23	B 6.25
8.24-9.41	B 6.90
9.42-10.43	B 7.70
10.44-11.07	B 8.20
11.08-12.35	B 9.10
12.36-14.05	B 10.2
14.06-15.85	B 11.5
15.86-17.23	B 12.8
17.24-18.35	B 14.0
18.36-20.1	B 15.5
20.2-22.1	B 17.5
22.2-23.7	B 19.5
23.8-27.1	B 22.0
27.2-30.7	B 25.0
30.8-34.9	B 28.0
35.0-38.9	B 32.0
39.0-44.5	B 36.0
44.6-50.3	B 40.0
50.4-54.0	B 45.0

**Thermal Unit Table 129**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
28.0-29.9	CC 20.9
30.0-32.5	CC 22.8
32.6-34.5	CC 24.6
34.6-37.5	CC 26.3
37.6-40.5	CC 28.8
40.6-43.5	CC 31.0
43.6-46.7	CC 33.3
46.8-50.5	CC 36.4
50.6-54.3	CC 39.6
54.4-58.9	CC 42.7
59.0-63.3	CC 46.6
63.4-68.1	CC 50.1
68.2-73.7	CC 54.5
73.8-79.7	CC 59.4
79.8-84.7	CC 64.5
84.8-91.5	CC 68.5
91.6-98.5	CC 74.6
98.6-105.7	CC 81.5
105.8-113.7	CC 87.7
113.8-122.5	CC 94.0
122.6-132.3	CC 103.0
132.4-142.5	CC 112.0
142.6-153.5	CC 121.0
153.6-165.9	CC 132.0
166.0-180.0	CC 143.0

**Thermal Unit Table 134**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
4.30-4.98	B 6.90
4.99-5.57	B 7.70
5.58-5.94	B 8.20
5.95-6.71	B 9.10
6.72-7.79	B 10.2
7.80-8.93	B 11.5
8.94-9.77	B 12.8
9.78-10.5	B 14.0
10.6-11.7	B 15.5
11.8-13.0	B 17.5
13.1-14.0	B 19.5
14.1-15.0	B 22.0
15.1-17.2	B 25.0
17.3-19.9	B 28.0
20.0-22.3	B 32.0
22.4-26.0	B 36.0
26.1-29.8	B 40.0
29.9-34.0	B 45.0
34.1-36.7	B 50.0
36.8-39.5	B 56.0
39.6-42.1	B 62.0
42.2-46.6	B 70.0
46.7-51.5	B 79.0
51.6-54.0	B 88.0

**Thermal Unit Table 128**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
7.88-8.91	B 6.90
8.92-9.95	B 7.70
9.96-10.57	B 8.20
10.58-11.95	B 9.10
11.96-13.79	B 10.2
13.80-15.85	B 11.5
15.86-17.43	B 12.8
17.44-18.55	B 14.0
18.56-20.5	B 15.5
20.6-22.9	B 17.5
23.0-24.7	B 19.5
24.8-27.9	B 22.0
28.0-31.7	B 25.0
31.8-35.9	B 28.0
36.0-39.9	B 32.0
40.0-45.7	B 36.0
45.8-50.9	B 40.0
51.0-61.7	B 45.0
61.8-65.1	B 50.0
65.2-69.9	B 56.0
70.0-79.5	B 62.0
79.6-89.4	B 70.0

**Thermal Unit Table 133**  
(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)	Thermal Unit Number
4.60-5.23	B 6.90
5.24-5.86	B 7.70
5.87-6.25	B 8.20
6.26-7.09	B 9.10
7.10-8.25	B 10.2
8.26-9.49	B 11.5
9.50-10.3	B 12.8
10.4-11.2	B 14.0
11.3-12.5	B 15.5
12.6-13.8	B 17.5
13.9-15.0	B 19.5
15.1-16.9	B 22.0
17.0-19.1	B 25.0
19.2-22.0	B 28.0
22.1-24.4	B 32.0
24.5-28.0	B 36.0
28.1-31.8	B 40.0
31.9-36.0	B 45.0
36.1-38.5	B 50.0
38.6-41.2	B 56.0
41.3-44.4	B 62.0
44.5-50.3	B 70.0
50.4-56.9	B 79.0
57.0-59.0	B 88.0

**Thermal Unit Table 135**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
0.77-0.88	0.85-0.95	B 1.30
0.89-1.02	0.96-1.09	B 1.45
1.03-1.19	1.10-1.21	B 1.67
1.20-1.37	1.22-1.35	B 1.88
1.38-1.62	1.36-1.56	B 2.10
1.63-1.90	1.57-1.76	B 2.40
1.91-2.12	1.77-1.94	B 2.65
2.13-2.46	1.95-2.22	B 3.00
2.47-2.83	2.23-2.57	B 3.30
2.84-3.19	2.58-2.87	B 3.70
3.20-3.61	2.88-3.21	B 4.15
3.62-3.89	3.22-3.50	B 4.85
3.90-4.32	3.51-3.79	B 5.50
4.33-4.57	3.80-4.04	B 6.25
4.58-5.19	4.05-4.53	B 6.90
5.20-5.79	4.54-5.03	B 7.70
5.80-6.16	5.04-5.36	B 8.20
6.17-6.94	5.37-5.97	B 9.10
6.95-7.99	5.98-6.89	B 10.2
7.80-8.99	6.90-7.79	B 11.5
9.00-9.98	7.80-8.53	B 12.8
9.99-10.6	8.54-9.09	B 14.0
10.7-11.6	9.10-9.99	B 15.5
11.7-13.1	10.0-10.9	B 17.5
13.2-14.2	11.0-11.7	B 19.5
14.3-15.4	11.8-13.4	B 22.0
15.5-17.6	13.5-15.4	B 25.0
17.7-20.0	15.5-17.9	B 28.0
-	18.0-20.0	B 32.0
For Type DPSG12 & DPSG13, 20 A Starter. Select Thermal Units from above.		
20.1-22.7	18.0-20.2	B 32.0
22.8-25.0	20.3-23.2	B 36.0
-	23.3-25.0	B 40.0
For Type DPSG22 & DPSG23, 25 A Starter. Select any of the Thermal Units from above.		
22.8-26.1	-	B 36.0
26.2-29.6	23.3-25.8	B 40.0
29.7-30.0	25.9-28.6	B 45.0
For Type DPSG32 & DPSG33, 30 A Starter. Select any of the Thermal Units from above.		

**Thermal Unit Table 145**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
1.00-1.11	0.91-1.02	B1.30
1.12-1.27	1.03-1.15	B1.45
1.28-1.36	1.16-1.27	B1.67
1.37-1.53	1.28-1.39	B1.88
1.54-1.78	1.40-1.61	B2.10
1.79-2.02	1.62-1.84	B2.40
2.03-2.20	1.85-2.03	B2.65
2.21-2.52	2.04-2.34	B3.00
2.53-2.94	2.35-2.69	B3.30
2.95-3.30	2.70-3.02	B3.70
3.31-3.70	3.03-3.39	B4.15
3.71-4.02	3.40-3.65	B4.85
4.03-4.46	3.66-4.04	B5.50
4.47-4.69	4.05-4.28	B6.25
4.70-5.37	4.29-4.85	B6.90
5.38-5.94	4.86-5.38	B7.70
5.95-6.34	5.39-5.71	B8.20
6.35-7.09	5.72-6.39	B9.10
7.10-8.46	6.40-7.53	B10.2
8.47-9.32	7.54-8.34	B11.5
9.33-10.2	8.35-9.14	B12.8
10.3-10.9	9.15-9.74	B14.0
11.0-12.1	9.75-10.7	B15.5
12.2-13.4	10.8-11.8	B17.5
13.5-14.2	11.9-12.2	B19.5
14.3-16.0	12.3-14.4	B22.0
16.1-18.1	14.5-16.4	B25.0
18.2-20.5	16.5-18.9	B28.0
20.6-23.5	19.0-21.3	B32.0
23.6-27.2	21.4-23.3	B36.0
27.3-30.8	23.4-27.9	B40.0
30.9-35.0	28.0-31.4	B45.0
35.1-37.2	-	B50.0
37.3-40.0	-	B56.0
For Type DPSG42 & DPSG43, 40 A Starter. Select any of the Thermal Units from above.		

**Thermal Unit Table 136**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
0.98-1.09	0.88-0.98	B 1.30
1.10-1.24	0.99-1.13	B 1.45
1.25-1.41	1.14-1.26	B 1.67
1.42-1.59	1.27-1.38	B 1.88
1.60-1.81	1.39-1.62	B 2.10
1.82-2.04	1.63-1.82	B 2.40
2.05-2.19	1.83-2.04	B 2.65
2.20-2.52	2.05-2.36	B 3.00
2.53-2.90	2.37-2.72	B 3.30
2.91-3.29	2.73-3.07	B 3.70
3.30-3.69	3.08-3.44	B 4.15
3.70-3.99	3.45-3.69	B 4.85
4.00-4.42	3.70-4.11	B 5.50
4.43-4.69	4.12-4.34	B 6.25
4.70-5.37	4.35-4.89	B 6.90
5.38-5.94	4.90-5.44	B 7.70
5.95-6.34	5.45-5.80	B 8.20
6.35-7.05	5.81-6.47	B 9.10
7.06-8.14	6.48-7.45	B 10.2
8.15-9.39	7.46-8.49	B 11.5
9.40-10.3	8.50-9.29	B 12.8
10.4-11.1	9.30-9.99	B 14.0
11.2-12.2	10.0-10.8	B 15.5
12.3-13.5	10.9-12.1	B 17.5
13.6-14.7	12.2-13.1	B 19.5
14.8-16.1	13.2-14.6	B 22.0
16.2-18.3	14.7-16.4	B 25.0
18.4-20.0	16.5-18.9	B 28.0
-	19.0-20.0	B 32.0
For Type DPSO12 & DPSO13, 20 A Starter. Select Thermal Units from above.		
18.4-20.9	-	B 28.0
21.0-23.6	19.0-20.9	B 32.0
23.7-25.0	21.0-24.1	B 36.0
-	24.2-25.0	B 40.0
For Type DPSO22 & DPSO23, 25 A Starter. Select any of the Thermal Units from above.		
23.7-27.2	-	B 36.0
27.3-30.0	24.2-27.2	B 40.0
-	27.3-30.0	B 45.0
For Type DPSO32 & DPSO33, 30 A Starter. Select any of the Thermal Units from above.		

**Thermal Unit Table 146**

(index and instructions: [page 16-132 to page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
3.90-4.22	3.60-3.89	B5.50
4.23-4.49	3.90-4.15	B6.25
4.50-5.14	4.16-4.76	B6.90
5.15-5.78	4.77-5.30	B7.70
5.79-6.23	5.31-5.70	B8.20
6.24-7.03	5.71-6.46	B9.10
7.04-8.23	6.47-7.65	B10.2
8.24-9.31	7.66-8.55	B11.5
9.32-10.1	8.56-9.36	B12.8
10.2-10.7	9.37-9.9	B14.0
10.8-11.9	10.0-10.9	B15.5
12.0-13.1	11.0-12.0	B17.5
13.2-13.9	12.1-12.8	B19.5
14.0-15.9	12.9-14.2	B22.0
16.0-18.0	14.3-16.0	B25.0
18.1-20.8	16.1-18.5	B28.0
20.9-23.1	18.6-21.2	B32.0
23.2-26.9	21.3-24.9	B36.0
27.0-31.4	25.0-28.0	B40.0
31.5-36.0	28.1-31.7	B45.0
36.1-38.8	31.8-34.6	B50.0
38.9-41.7	34.7-37.4	B56.0
41.8-46.3	37.5-40.0	B62.0
46.4-50.0	40.1-46.4	B70.0
-	46.5-50.0	B79.0
For Type DPSG52 & DPSG53, 50 A Starter. Select any of the Thermal Units from above.		

**Thermal Unit Table 147**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
1.04-1.14	0.93-1.04	B1.30
1.15-1.29	1.05-1.18	B1.45
1.30-1.43	1.19-1.33	B1.67
1.44-1.56	1.34-1.43	B1.88
1.57-1.79	1.44-1.67	B2.10
1.80-2.03	1.68-1.88	B2.40
2.04-2.26	1.89-2.09	B2.65
2.27-2.51	2.10-2.41	B3.00
2.52-3.03	2.42-2.79	B3.30
3.04-3.31	2.80-3.15	B3.70
3.32-3.73	3.16-3.54	B4.15
3.74-4.07	3.55-3.75	B4.85
4.08-4.49	3.76-4.22	B5.50
4.50-4.76	4.23-4.46	B5.25
4.77-5.44	4.47-5.09	B6.90
5.45-6.04	5.10-5.61	B7.70
6.05-6.46	5.62-5.99	B8.20
6.47-7.24	6.00-6.70	B9.10
7.25-8.64	6.71-8.19	B10.20
8.65-9.59	8.20-8.79	B11.5
9.60-10.5	8.80-9.66	B12.8
10.6-11.3	9.67-10.2	B14.0
11.4-12.6	10.3-11.4	B15.5
12.7-13.9	11.5-12.6	B17.5
14.0-14.9	12.7-13.5	B19.5
15.0-16.5	13.6-15.1	B22.0
16.6-18.9	15.2-17.2	B25.0
19.0-22.2	17.3-19.9	B28.0
22.3-24.6	20.0-22.5	B32.0
24.7-28.6	22.6-26.2	B36.0
28.7-32.4	26.3-29.9	B40.0
32.5-37.3		B45.0
37.4-39.5		B50.0
39.6-40.0		B56.0
For Type DPSO42 & DPSO43, 40 A Starter. Select any of the Thermal Units from above.		

**Thermal Unit Table 148**  
(index and instructions: [page 16-132](#) to [page 16-136](#))

Motor FLC (A)		Thermal Unit Number
1 T.U.	3 T.U.	
4.14-4.45	3.70-4.09	B5.50
4.46-4.88	4.10-4.35	B6.25
4.89-5.44	4.36-5.07	B6.90
5.45-6.08	5.08-5.79	B7.70
6.09-6.42	5.80-6.27	B8.20
6.43-7.28	6.28-7.16	B9.10
7.29-8.42	7.17-8.58	B10.2
8.43-9.64	8.59-9.55	B11.5
9.65-10.4	9.56-10.2	B12.8
10.5-11.2	10.3-10.9	B14.0
11.3-12.3	11.0-11.9	B15.5
12.4-13.7	12.0-13.1	B17.5
13.8-14.8	13.2-14.0	B19.5
14.9-16.5	14.1-14.8	B22.0
16.6-18.7	14.9-17.0	B25.0
18.8-21.4	17.1-19.6	B28.0
21.5-24.3	19.7-22.1	B32.0
24.4-28.0	22.2-26.0	B36.0
28.1-33.3	26.1-29.4	B40.0
33.4-37.6	29.5-34.0	B45.0
37.7-41.1	34.1-36.4	B50.0
41.2-44.1	36.5-39.2	B56.0
44.2-47.8	39.3-42.4	B62.0
47.9-50.0	42.5-49.3	B70.0
—	49.4-50.0	B79.0
For Type DPSO52 & DPSO53, 50 A Starter. Select any of the Thermal Units from above.		